

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P198486

Luminaire Tested: **XNV-AF-01-LED-U-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198486
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: XNV-AF-01-LED-U-5MQ-7030
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5702 lumens
Efficiency: N/A
Efficacy: 98.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

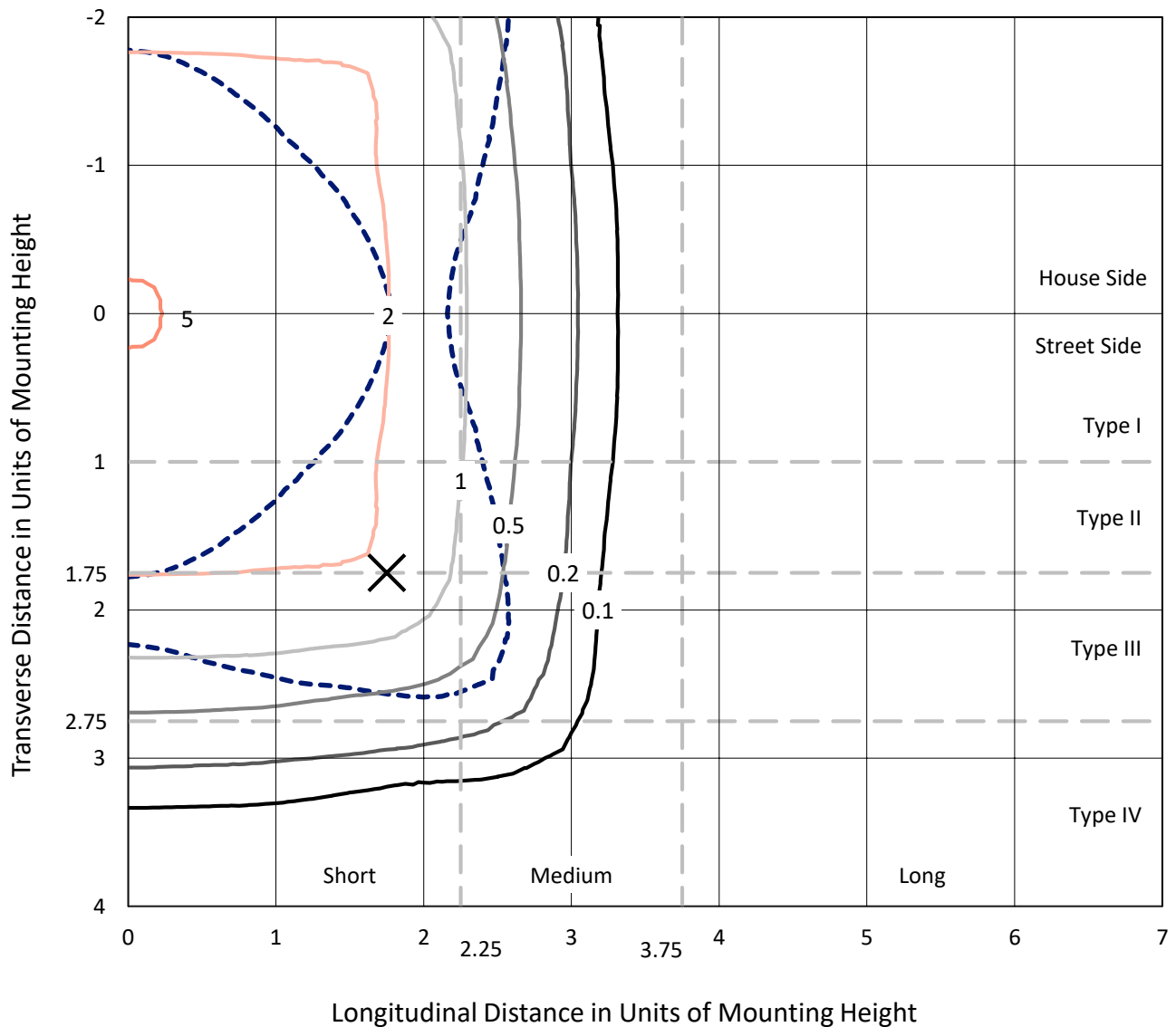
Input Watts (W): 58
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

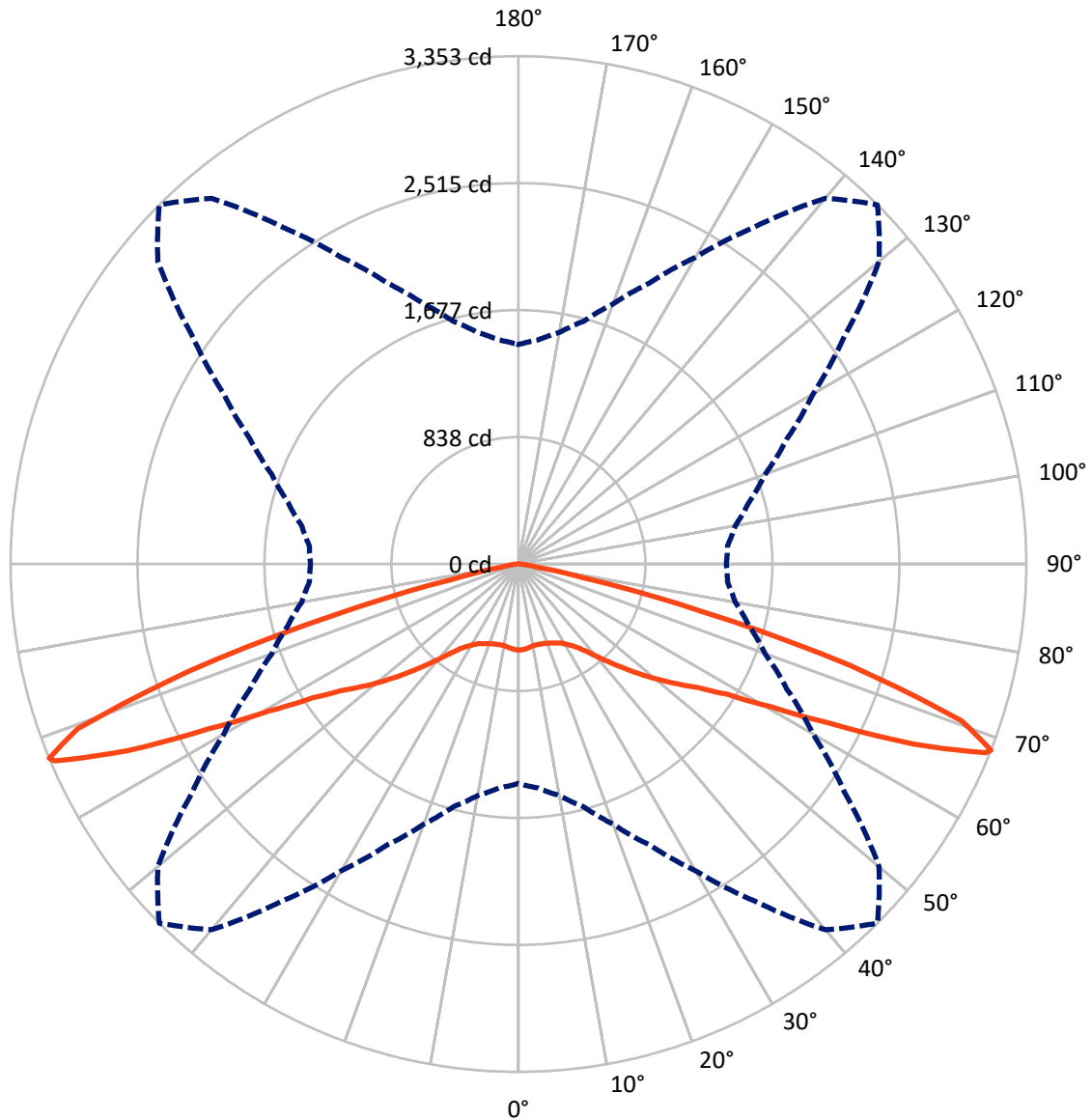
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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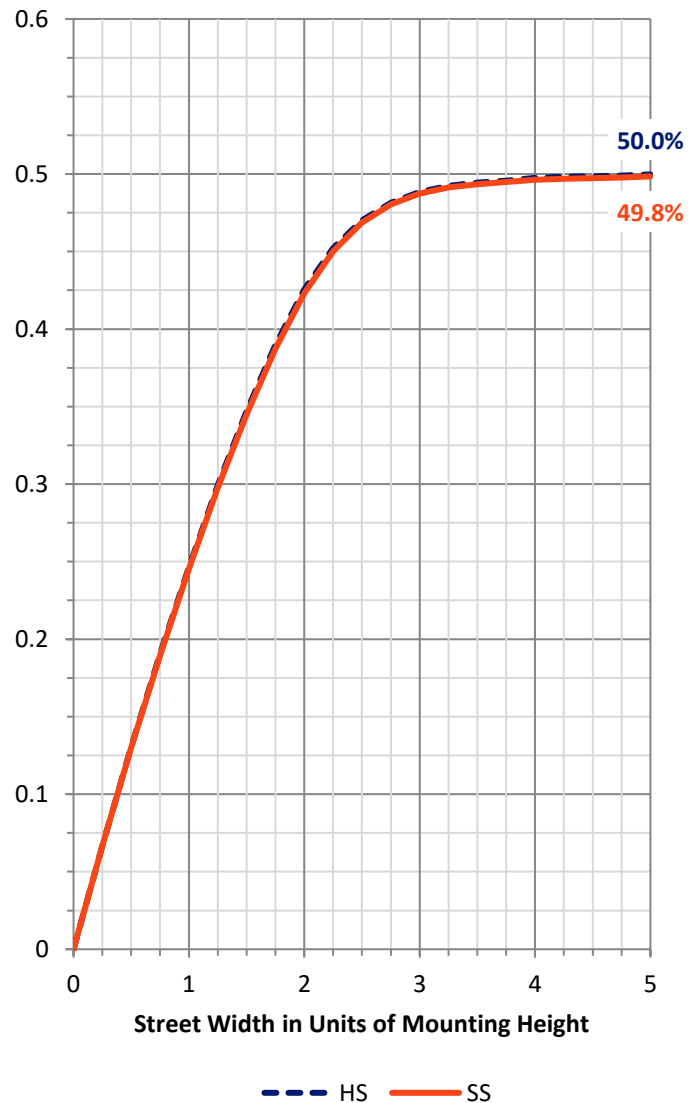
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2851.0	0.0	2851.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2851.0	0.0	2851.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	5702.0	0.0	5702.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.2	0.9
10°-20°	154.4	2.7
20°-30°	262.4	4.6
30°-40°	429.5	7.5
40°-50°	767.5	13.5
50°-60°	1296.2	22.7
60°-70°	2009.9	35.2
70°-80°	691.0	12.1
80°-90°	38.0	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	5702.0	100.0
0°-180°	5702.0	100.0



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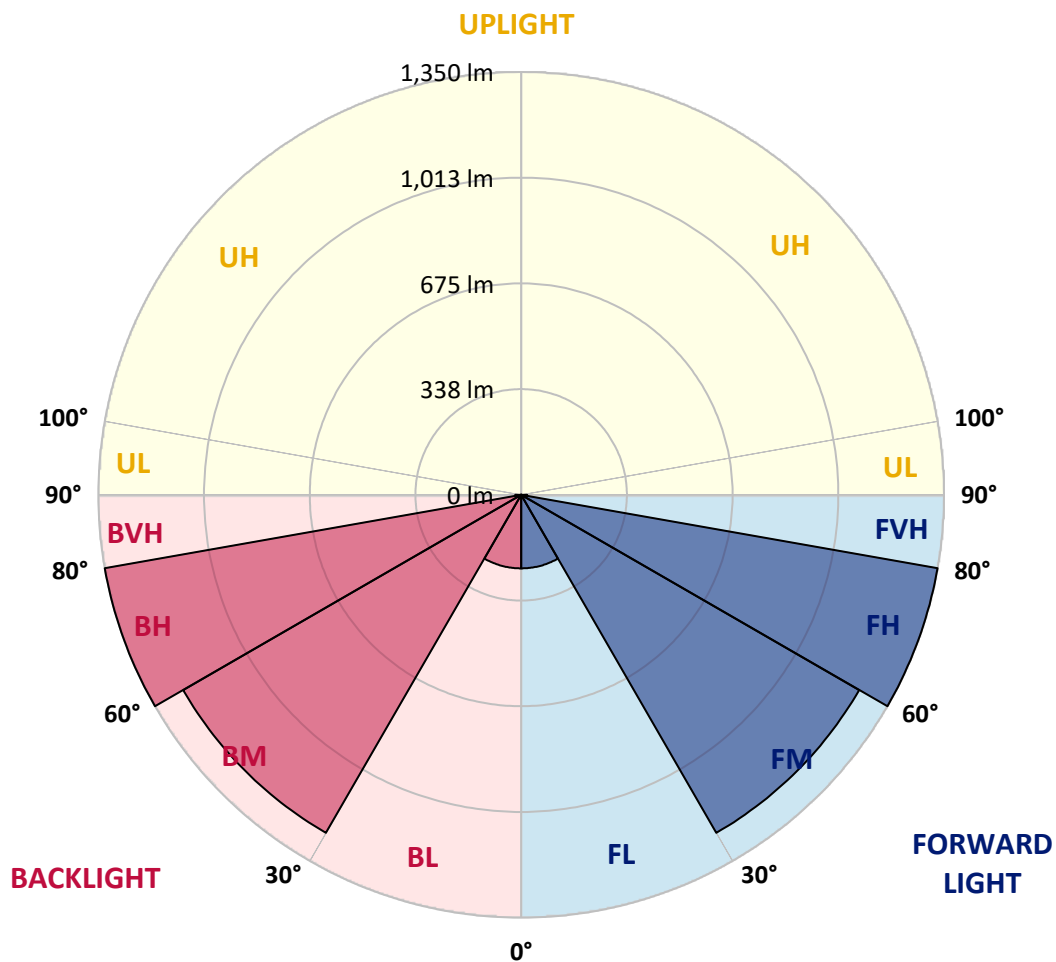
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	235.0	4.1			
FM	(30°-60°)	1246.6	21.9			
FH	(60°-80°)	1350.5	23.7			G1/1800
FVH	(80°-90°)	19.0	0.3			G1/100
BL	(0°-30°)	235.0	4.1	B1/500		
BM	(30°-60°)	1246.6	21.9	B2/2500		
BH	(60°-80°)	1350.5	23.7	B3/2500		G1/1800
BVH	(80°-90°)	19.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8
2.5°	571.2	571.2	571.9	571.6	570.5	569.5	568.4	567.4	566.7	566.0	565.3
5°	565.3	565.3	566.3	565.6	565.0	563.9	563.2	562.2	561.5	560.8	561.1
7.5°	557.6	558.3	559.0	558.7	557.3	556.9	555.9	555.5	554.8	553.8	554.1
10°	551.0	551.3	552.0	551.7	551.3	550.3	549.9	549.6	549.2	547.8	547.5
12.5°	544.3	545.0	545.7	546.1	545.7	546.1	546.4	546.8	546.4	545.7	545.7
15°	539.1	539.8	540.9	541.9	542.3	544.3	545.7	547.1	548.2	548.5	547.5
17.5°	536.3	537.4	538.8	540.9	542.6	545.0	547.5	549.6	551.3	551.7	550.6
20°	536.0	537.0	539.1	541.6	544.7	547.8	551.7	554.8	556.6	557.6	556.6
22.5°	538.4	539.8	542.6	545.7	549.6	553.8	558.7	562.2	565.6	567.0	566.0
25°	545.4	546.8	549.9	553.8	558.0	563.2	568.1	572.6	576.1	577.9	576.5
27.5°	560.1	560.4	563.9	568.1	573.0	577.5	583.8	585.9	588.7	590.4	588.7
30°	580.7	581.4	584.5	591.1	595.7	601.6	605.1	607.2	610.3	612.1	610.0
32.5°	612.1	612.8	615.6	621.9	626.1	630.6	634.8	636.2	639.3	641.4	639.0
35°	656.4	657.8	660.3	664.5	668.0	671.4	674.6	673.5	675.6	678.4	676.0
37.5°	717.2	716.8	717.5	720.7	724.2	726.3	731.2	728.7	730.8	733.2	731.9
40°	788.1	788.1	787.7	793.3	794.7	796.8	802.0	798.9	801.7	804.5	802.0
42.5°	868.7	870.1	871.9	876.4	880.2	880.9	883.4	882.0	885.5	887.9	885.5
45°	961.6	963.7	965.8	976.3	978.0	979.4	981.2	976.6	980.5	982.6	981.9
47.5°	1058.0	1061.8	1066.4	1077.2	1084.2	1087.3	1088.7	1083.5	1083.8	1087.0	1087.3
50°	1166.9	1171.1	1175.6	1187.9	1194.5	1200.1	1201.8	1195.9	1196.6	1199.0	1199.7
52.5°	1267.5	1272.4	1282.1	1298.5	1308.0	1317.8	1318.5	1311.1	1314.3	1316.0	1314.6
55°	1362.1	1368.4	1381.3	1403.3	1420.4	1439.6	1448.3	1440.3	1440.3	1438.9	1438.2
57.5°	1472.4	1479.4	1492.7	1518.2	1541.9	1569.5	1593.2	1601.3	1615.9	1620.8	1613.1
60°	1638.6	1646.0	1659.6	1693.1	1723.1	1763.3	1802.4	1834.2	1885.8	1913.8	1888.6
62.5°	1790.5	1801.7	1833.8	1892.5	1957.4	2031.8	2118.0	2179.5	2273.4	2320.2	2257.0
65°	1756.0	1778.7	1841.5	1933.7	2067.8	2229.1	2404.7	2573.4	2767.5	2867.0	2738.5
67.5°	1533.9	1553.1	1620.8	1728.0	1895.3	2117.7	2390.7	2739.9	3140.4	3326.9	3099.5
68°	1449.0	1485.0	1552.4	1658.9	1827.5	2046.1	2337.7	2714.8	3151.9	3353.4	3107.9
70°	1111.0	1124.0	1188.6	1284.2	1466.1	1680.5	1974.9	2404.7	2898.8	3106.2	2853.7
72.5°	527.9	535.6	577.5	671.8	787.4	962.0	1221.7	1627.1	2072.3	2288.1	2036.3
75°	193.4	195.2	205.0	227.3	270.6	336.2	460.9	713.0	1055.5	1258.7	1059.7
77.5°	104.4	104.7	108.6	114.2	121.9	130.6	149.4	200.4	323.3	439.9	341.5
80°	65.6	65.3	69.1	73.7	78.9	83.1	84.8	90.8	102.3	119.8	110.0
82.5°	33.5	36.7	45.4	50.3	58.0	59.4	57.6	57.3	60.8	65.6	67.7
85°	18.5	16.4	24.1	32.1	34.9	36.0	36.3	34.2	33.5	32.8	34.6
87.5°	9.4	8.7	10.5	16.1	17.1	14.0	14.3	12.2	8.4	8.4	8.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	568.8	568.8	568.8	568.8	568.8	568.8	568.8	568.8
2.5°	564.6	565.0	564.3	564.3	564.3	564.6	564.3	563.9
5°	560.1	560.8	560.8	561.1	561.5	561.5	561.5	561.5
7.5°	553.4	553.8	554.5	554.5	554.5	554.5	554.5	554.5
10°	547.1	546.4	546.1	545.4	545.4	544.3	544.7	545.0
12.5°	544.0	542.6	541.9	540.9	540.2	539.1	539.1	539.5
15°	545.4	543.3	541.2	540.5	539.8	539.1	538.4	538.8
17.5°	548.2	545.7	543.3	541.9	540.5	539.5	539.1	539.5
20°	554.1	550.6	546.8	544.3	541.6	540.9	539.8	540.9
22.5°	562.2	558.0	553.1	548.5	545.4	544.0	542.6	543.7
25°	571.9	567.4	562.5	557.3	553.8	552.7	551.0	551.0
27.5°	585.6	581.7	577.5	572.6	569.1	568.1	565.3	565.3
30°	607.2	603.4	599.5	595.3	591.8	590.8	587.3	587.3
32.5°	635.8	631.6	629.2	625.7	622.9	621.2	617.0	616.6
35°	674.2	670.4	670.0	667.6	664.8	665.2	661.0	660.3
37.5°	729.4	726.3	727.3	725.2	722.8	724.9	722.4	722.4
40°	799.9	798.9	799.9	798.5	798.9	799.2	797.1	797.8
42.5°	885.1	882.3	888.6	887.9	886.9	889.7	884.8	881.3
45°	983.3	982.2	988.5	989.5	987.4	989.2	980.5	980.1
47.5°	1089.7	1089.7	1095.3	1094.6	1092.5	1092.9	1082.4	1075.8
50°	1200.8	1200.1	1205.7	1204.3	1201.5	1201.1	1190.3	1183.7
52.5°	1316.4	1316.4	1324.4	1320.5	1313.9	1310.8	1297.5	1288.8
55°	1444.2	1442.4	1444.8	1432.3	1419.4	1409.9	1393.5	1386.9
57.5°	1605.8	1585.6	1568.1	1552.0	1533.9	1522.7	1503.5	1496.5
60°	1835.2	1781.1	1757.7	1725.6	1695.6	1680.5	1655.0	1641.4
62.5°	2153.0	2063.2	1999.7	1928.8	1860.4	1812.2	1773.4	1756.3
65°	2520.3	2324.7	2163.1	2011.2	1882.4	1780.0	1723.1	1705.3
67.5°	2659.9	2301.0	2022.0	1804.1	1647.7	1525.9	1457.8	1443.5
68°	2630.3	2246.5	1956.7	1733.6	1576.5	1453.6	1385.8	1372.9
70°	2320.2	1895.3	1589.4	1367.3	1220.7	1103.7	1055.9	1035.3
72.5°	1581.7	1217.2	933.7	746.9	637.2	563.2	519.2	504.2
75°	728.0	492.0	328.6	245.5	208.5	190.6	177.0	173.5
77.5°	212.3	154.3	132.7	122.9	115.6	109.3	104.7	104.4
80°	100.9	94.6	91.8	85.5	78.9	73.0	68.8	69.5
82.5°	67.7	66.0	66.0	59.7	49.2	42.2	34.9	31.4
85°	36.0	37.4	39.5	37.4	32.5	24.1	15.7	17.1
87.5°	12.2	14.0	14.7	14.3	12.9	9.8	7.3	7.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)