

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: P198496

Luminaire Tested: **XNV-AF-01-LED-U-5NQ-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P198496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24130)
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-5NQ-7030-1200
Description: XNV ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 3000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6037 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

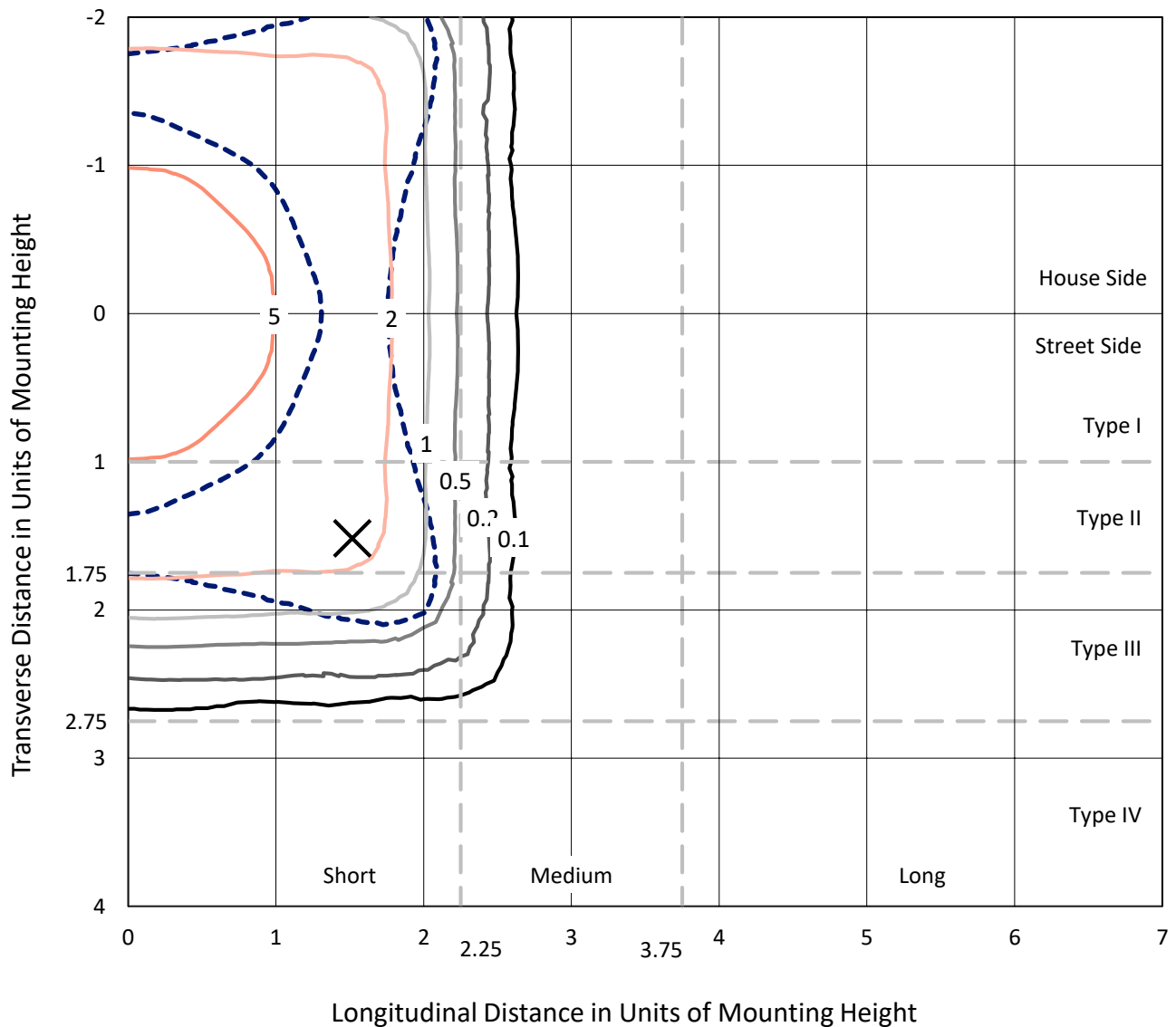
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

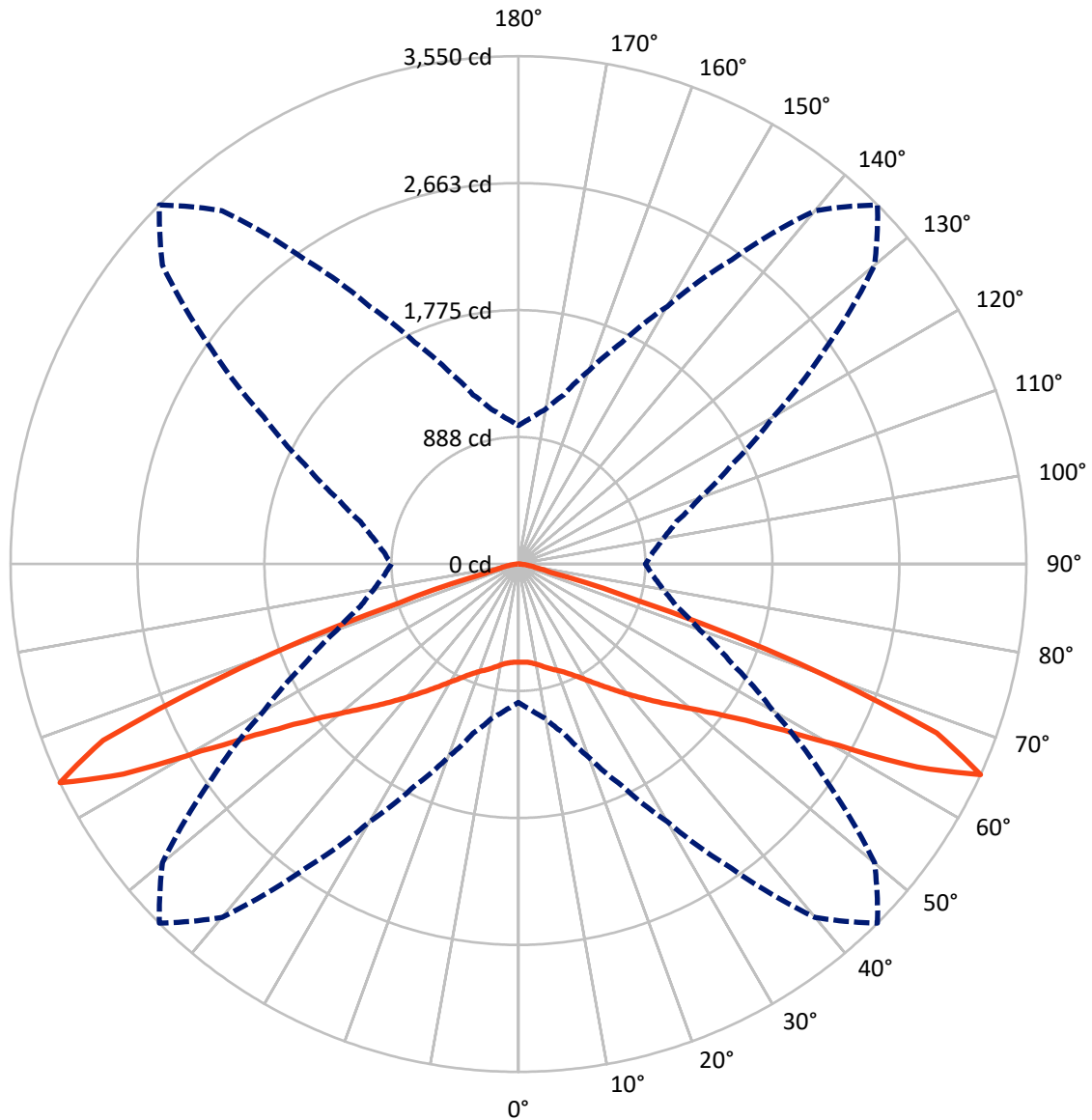
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3018.5	0.0	3018.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3018.5	0.0	3018.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	6037.0	0.0	6037.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.9	1.1
10°-20°	214.3	3.6
20°-30°	399.8	6.6
30°-40°	674.2	11.2
40°-50°	1095.0	18.1
50°-60°	1715.7	28.4
60°-70°	1619.6	26.8
70°-80°	218.3	3.6
80°-90°	33.2	0.6
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°	6037.0	100.0
0°-180°	6037.0	100.0



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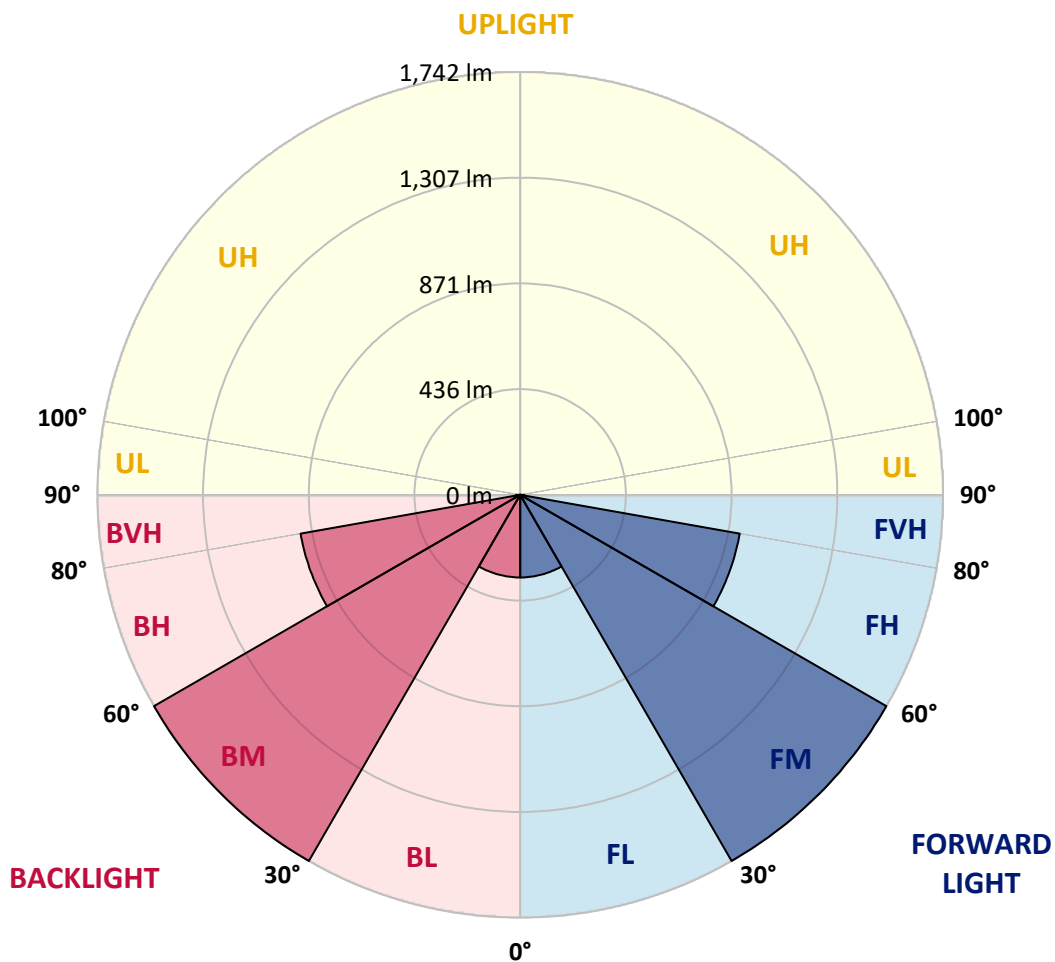
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	340.5	5.6			
FM	(30°-60°)	1742.5	28.9			
FH	(60°-80°)	918.9	15.2			G1/1800
FVH	(80°-90°)	16.6	0.3			G1/100
BL	(0°-30°)	340.5	5.6	B1/500		
BM	(30°-60°)	1742.5	28.9	B2/2500		
BH	(60°-80°)	918.9	15.2	B2/1000		G1/1800
BVH	(80°-90°)	16.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	686.7	686.7	686.7	686.7	686.7	686.7	686.7	686.7	686.7	686.7	686.7
2.5°	692.3	692.3	693.5	693.1	691.6	690.5	689.3	687.8	687.1	686.3	685.9
5°	696.1	696.1	697.2	696.9	695.7	694.2	693.5	692.3	691.2	690.5	690.8
7.5°	705.5	705.9	706.3	705.9	704.8	703.6	702.1	701.7	700.2	699.1	699.9
10°	719.8	719.8	720.2	720.5	719.8	717.2	717.2	716.4	714.9	713.4	713.8
12.5°	735.6	735.6	736.0	736.0	736.0	734.5	734.8	734.5	732.6	731.8	732.6
15°	751.0	751.4	751.4	752.1	752.1	752.5	754.0	754.0	753.3	752.9	752.9
17.5°	769.1	769.8	770.2	771.3	771.7	772.4	773.9	774.3	774.7	773.6	773.9
20°	793.1	793.5	794.6	795.0	796.5	796.5	797.3	796.9	796.1	794.6	794.6
22.5°	820.2	821.0	823.2	823.2	825.1	824.0	824.3	823.2	821.3	820.6	819.8
25°	855.6	856.7	858.6	857.8	858.6	856.7	856.7	856.7	855.6	854.4	854.1
27.5°	900.3	898.4	900.3	898.8	898.4	896.9	897.3	896.5	895.4	895.0	893.5
30°	946.9	944.7	945.8	946.2	945.4	945.1	943.6	942.4	940.5	940.9	939.8
32.5°	1000.3	998.1	999.2	999.6	998.8	999.6	999.2	996.6	994.3	995.8	995.8
35°	1063.9	1062.4	1065.4	1066.5	1064.3	1063.1	1061.6	1058.6	1055.2	1057.5	1057.9
37.5°	1140.2	1138.4	1140.6	1143.6	1139.5	1137.2	1131.2	1126.7	1124.4	1125.6	1127.1
40°	1219.6	1220.0	1226.4	1227.1	1222.6	1220.0	1213.9	1207.2	1200.8	1200.8	1202.7
42.5°	1303.1	1304.2	1311.7	1314.4	1312.9	1308.0	1299.7	1291.4	1283.1	1284.7	1286.9
45°	1397.5	1396.0	1403.9	1410.3	1409.1	1407.6	1399.7	1384.7	1377.2	1376.8	1380.5
47.5°	1496.8	1499.8	1508.0	1518.9	1518.6	1514.8	1504.7	1490.7	1476.8	1478.0	1482.5
50°	1612.6	1616.7	1630.6	1641.5	1643.0	1641.9	1629.9	1613.7	1594.2	1595.3	1601.3
52.5°	1716.4	1722.4	1738.6	1761.1	1775.0	1781.4	1773.5	1758.5	1738.6	1739.7	1746.1
55°	1810.4	1819.8	1843.9	1874.7	1902.5	1928.5	1940.1	1939.8	1925.1	1928.5	1936.8
57.5°	1869.4	1882.6	1919.1	1968.7	2024.0	2076.3	2121.4	2163.9	2173.3	2191.0	2191.0
60°	1790.1	1820.9	1869.4	1954.4	2063.1	2180.4	2307.6	2431.3	2511.0	2573.8	2540.0
62.5°	1494.9	1540.4	1608.4	1720.5	1889.7	2099.2	2354.6	2642.3	2942.4	3125.9	2991.3
65°	967.2	1024.4	1098.5	1224.5	1437.7	1707.4	2079.3	2596.4	3224.4	3550.1	3249.2
67.5°	383.2	421.9	467.1	556.6	741.6	1006.4	1423.8	2061.6	2847.2	3154.5	2817.1
70°	183.1	189.5	198.2	217.4	263.6	355.8	572.0	1015.8	1746.1	2069.9	1704.3
72.5°	132.4	133.5	137.6	144.0	157.6	176.4	214.4	310.6	602.1	875.5	602.8
75°	100.4	101.9	104.2	107.6	114.7	123.7	138.0	165.5	206.1	237.7	205.7
77.5°	76.3	77.8	79.7	83.1	86.9	93.3	98.5	109.4	126.7	133.5	132.8
80°	55.7	58.3	61.3	64.3	66.9	69.9	70.3	75.6	85.4	91.8	89.9
82.5°	35.4	37.6	45.5	48.9	49.3	50.0	49.6	50.0	55.3	59.8	58.3
85°	22.6	24.1	28.2	32.0	31.2	32.7	32.7	32.0	29.7	25.6	30.5
87.5°	11.3	11.7	13.5	16.9	16.2	14.3	13.9	13.9	10.2	8.6	9.4
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°	686.7	686.7	686.7	686.7	686.7	686.7	686.7	686.7
2.5°	684.8	685.6	684.4	684.4	684.1	684.8	683.7	683.7
5°	690.1	691.2	690.8	690.8	691.6	692.3	692.0	691.6
7.5°	699.5	700.2	701.0	701.4	702.1	701.7	702.5	702.1
10°	713.8	713.0	714.2	713.0	713.4	712.7	713.0	713.0
12.5°	731.8	730.7	729.9	729.2	729.2	727.7	727.7	728.1
15°	752.5	750.6	749.1	748.4	747.6	747.6	746.5	747.2
17.5°	772.8	770.9	768.3	768.3	767.2	766.4	765.7	767.6
20°	794.3	792.4	790.9	790.5	788.2	787.5	787.9	790.1
22.5°	819.1	817.9	817.9	817.2	815.7	814.6	814.6	817.2
25°	852.5	850.3	850.7	851.0	850.3	850.3	849.5	851.4
27.5°	893.5	891.7	892.8	893.5	892.8	893.9	892.8	894.3
30°	941.7	940.5	941.7	942.8	940.9	940.9	940.2	941.3
32.5°	999.2	997.7	998.5	998.5	995.8	993.6	990.6	992.8
35°	1062.4	1060.5	1062.0	1063.1	1060.1	1057.9	1053.4	1055.2
37.5°	1132.0	1132.7	1134.6	1139.5	1138.7	1135.0	1131.6	1133.1
40°	1209.8	1213.6	1221.8	1225.2	1224.5	1220.7	1216.2	1217.0
42.5°	1297.8	1302.7	1311.4	1317.0	1314.4	1309.1	1303.5	1305.7
45°	1393.7	1401.2	1412.5	1418.2	1414.8	1409.1	1401.2	1405.4
47.5°	1495.2	1510.3	1525.3	1532.9	1531.7	1523.8	1513.7	1514.8
50°	1616.7	1636.7	1655.8	1663.4	1657.7	1645.7	1631.4	1631.0
52.5°	1767.9	1789.3	1805.1	1803.2	1789.3	1770.5	1754.4	1753.6
55°	1956.7	1963.8	1961.6	1945.4	1921.0	1891.6	1870.9	1867.6
57.5°	2185.0	2160.9	2125.5	2076.7	2021.7	1966.1	1928.5	1914.6
60°	2464.0	2355.3	2229.0	2095.8	1974.4	1883.4	1825.8	1790.8
62.5°	2694.5	2379.8	2097.3	1866.1	1676.9	1564.4	1485.8	1437.3
65°	2615.6	2056.0	1646.8	1348.6	1142.1	1025.9	942.8	887.5
67.5°	2020.6	1373.8	956.0	662.6	502.4	425.3	371.6	336.6
70°	1018.8	526.9	319.3	225.3	192.5	179.0	170.0	164.7
72.5°	299.0	199.7	165.8	146.7	135.0	126.7	121.5	118.8
75°	165.5	135.0	119.2	108.3	100.8	95.1	91.8	89.5
77.5°	113.9	98.2	90.3	83.1	77.1	73.0	70.3	68.1
80°	79.7	71.8	68.4	64.7	60.2	56.8	53.0	51.5
82.5°	53.0	49.6	48.9	45.9	43.2	39.5	32.7	30.5
85°	31.2	30.8	30.8	29.7	27.8	24.4	19.6	19.6
87.5°	10.9	11.3	11.7	12.4	12.0	10.2	8.3	7.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)