

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: McGRAW-EDISON

Report Number: P299396

Luminaire Tested: **GLNA-AF-01-LED-E1-5NQ-7030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P299396  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-01-LED-E1-5NQ-7030-800  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type II  
w/Spill Control OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5006.5 lumens  
Efficiency: N/A  
Efficacy: 113.8 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

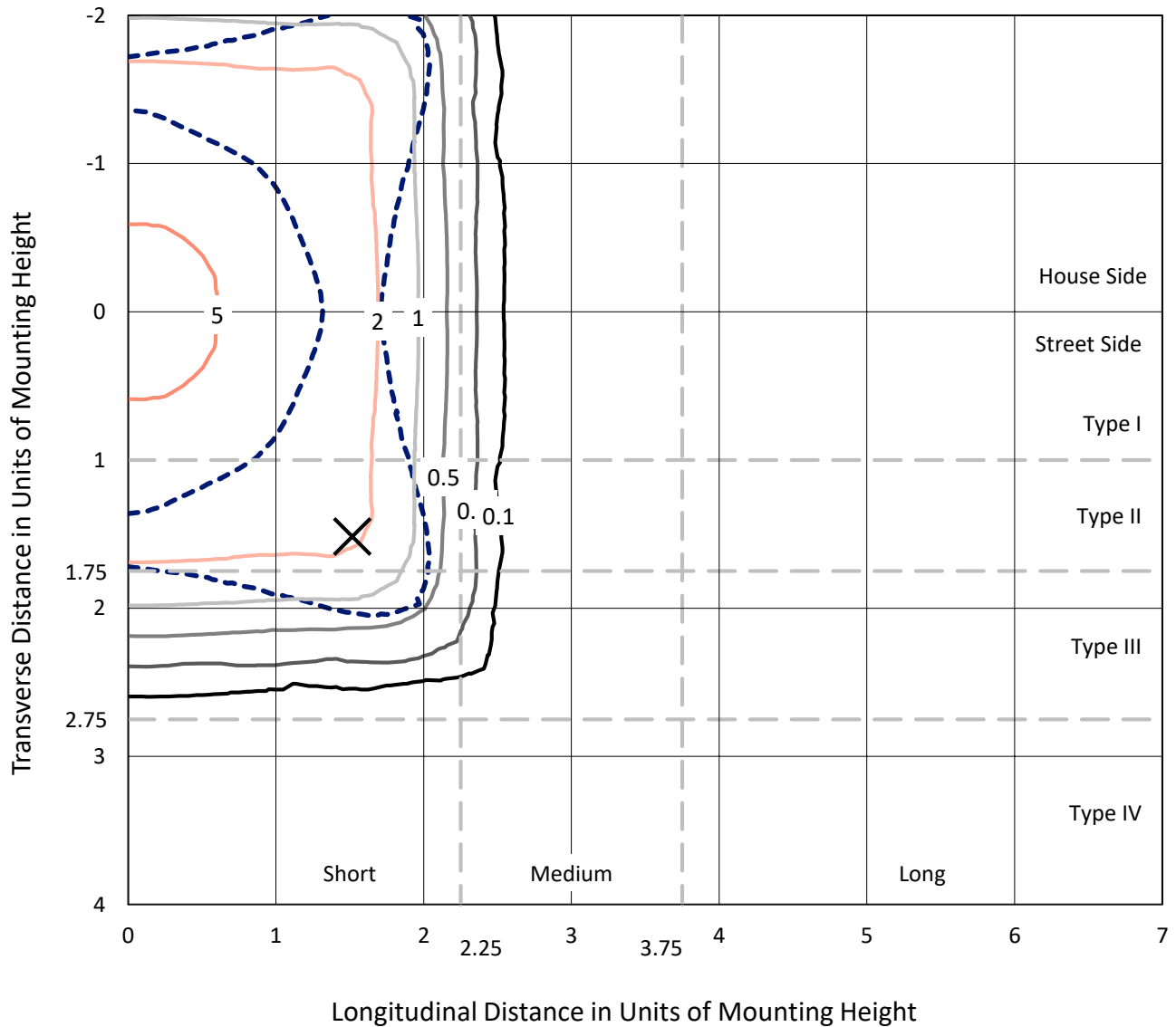
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

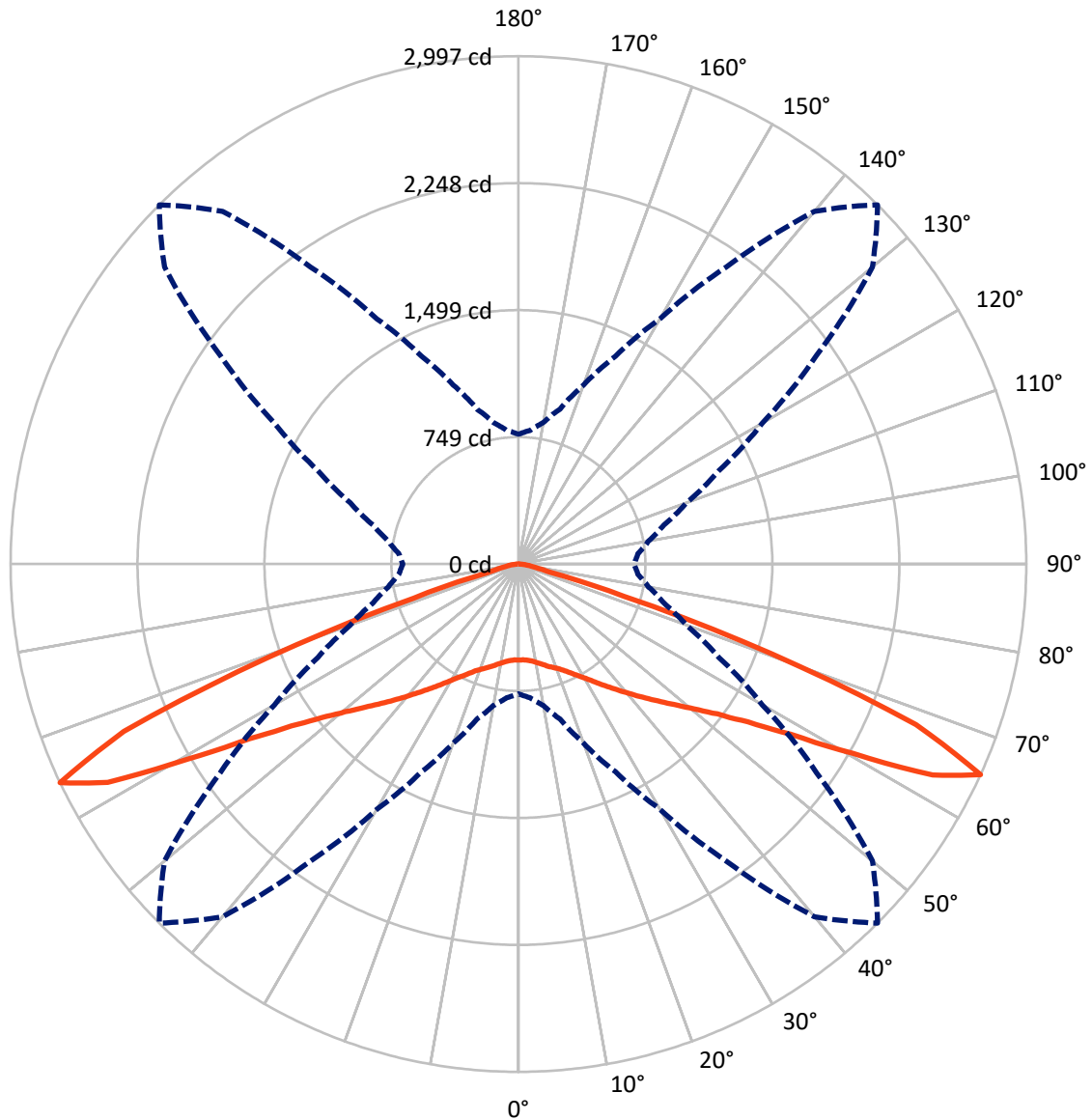
× Max cd  
 - - - 1/2 Max cd



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 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2503.2	0.0	2503.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2503.2	0.0	2503.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5006.5	0.0	5006.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	55.2	1.1
10°-20°	177.1	3.5
20°-30°	331.1	6.6
30°-40°	560.0	11.2
40°-50°	915.7	18.3
50°-60°	1456.0	29.1
60°-70°	1316.2	26.3
70°-80°	166.6	3.3
80°-90°	28.6	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°	5006.5	100.0
0°-180°	5006.5	100.0



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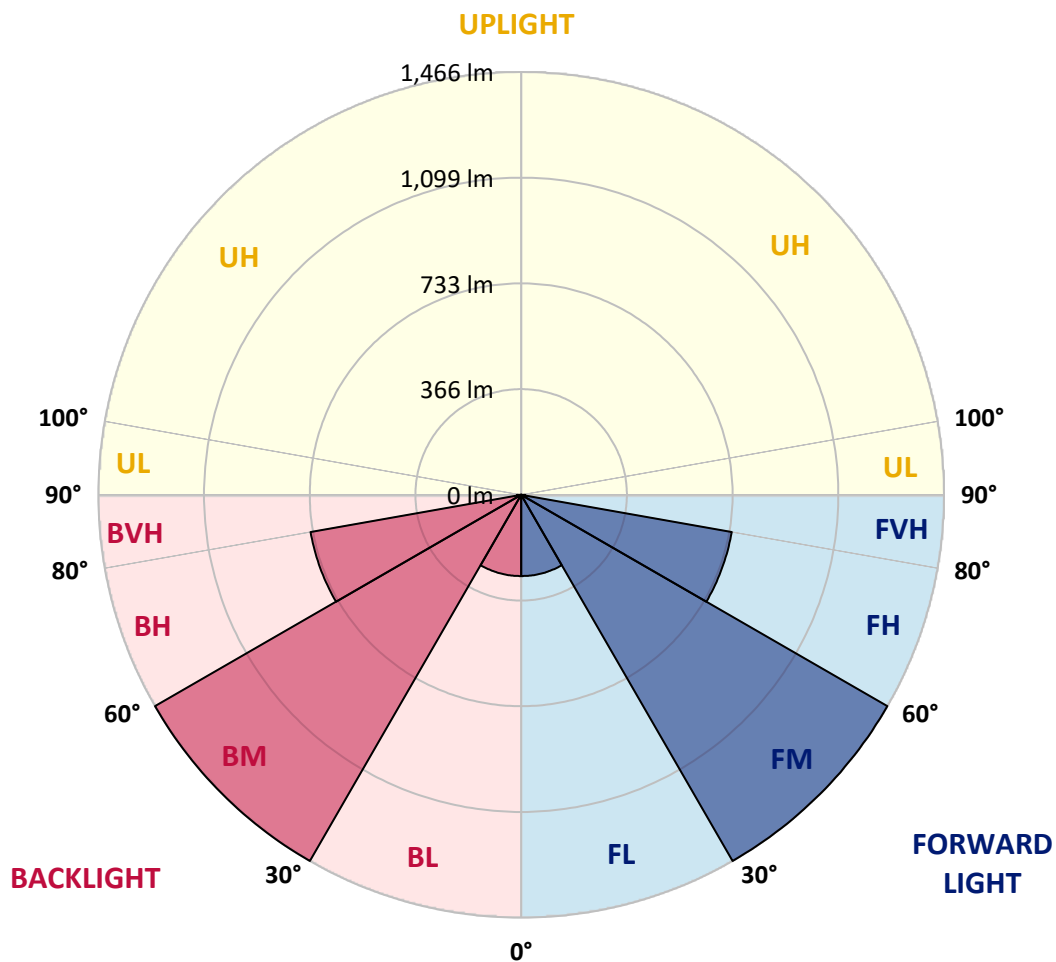
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	281.7	5.6			
FM	(30°-60°)	1465.8	29.3			
FH	(60°-80°)	741.4	14.8			G1/1800
FVH	(80°-90°)	14.3	0.3			G1/100
BL	(0°-30°)	281.7	5.6	B1/500		
BM	(30°-60°)	1465.8	29.3	B2/2500		
BH	(60°-80°)	741.4	14.8	B2/1000		G1/1800
BVH	(80°-90°)	14.3	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°	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5
2.5°	567.0	567.4	567.9	567.4	567.9	567.2	566.7	567.4	566.7	566.0	566.5
5°	571.9	572.1	572.1	571.4	572.1	571.6	570.9	571.9	571.2	570.5	570.9
7.5°	580.1	581.0	580.3	579.6	580.1	579.6	579.1	579.4	579.1	578.4	578.7
10°	591.1	591.8	591.3	591.1	591.6	591.3	590.9	590.6	590.9	590.2	590.2
12.5°	604.5	604.2	604.0	604.2	604.9	604.9	604.7	604.9	605.4	605.6	605.2
15°	617.6	618.1	618.1	618.1	619.5	620.7	621.4	621.8	622.8	623.0	622.1
17.5°	634.0	634.0	633.8	634.0	635.4	637.3	638.0	638.9	639.9	640.6	639.4
20°	652.3	652.8	652.8	653.2	655.1	657.2	657.2	657.7	657.2	657.7	657.0
22.5°	674.6	676.0	676.0	676.2	678.1	680.7	680.0	680.7	679.5	680.4	679.5
25°	703.7	705.8	705.3	705.3	706.7	708.3	708.6	710.0	709.7	710.9	710.2
27.5°	736.5	739.8	740.7	740.5	741.4	743.0	743.5	745.2	744.2	745.2	744.7
30°	775.9	777.3	779.2	779.9	781.0	782.7	782.7	782.9	781.7	783.1	783.8
32.5°	816.7	819.2	821.1	825.3	827.5	828.6	828.4	828.9	827.7	829.6	831.0
35°	870.6	872.5	875.5	878.8	881.6	881.4	880.7	880.9	880.9	882.6	884.0
37.5°	935.5	936.0	940.0	944.7	946.1	944.7	940.5	939.5	937.4	939.5	941.9
40°	1004.2	1005.9	1013.9	1016.9	1017.6	1015.0	1008.9	1005.4	1000.7	1003.3	1006.6
42.5°	1076.2	1079.5	1086.8	1092.2	1094.5	1092.9	1084.4	1079.0	1072.9	1074.4	1077.6
45°	1156.0	1159.9	1170.3	1175.4	1179.9	1177.3	1169.1	1160.9	1151.3	1152.0	1157.1
47.5°	1245.1	1249.0	1262.4	1271.1	1273.4	1273.0	1263.8	1252.6	1239.4	1239.0	1243.4
50°	1344.9	1348.9	1365.6	1378.9	1385.7	1385.0	1374.2	1358.3	1342.4	1342.6	1348.2
52.5°	1442.5	1447.4	1464.8	1487.7	1501.1	1510.7	1504.1	1489.1	1469.7	1470.1	1475.3
55°	1533.9	1542.1	1562.1	1593.2	1618.1	1645.1	1652.8	1652.3	1640.6	1643.9	1649.0
57.5°	1578.2	1590.4	1621.1	1670.4	1721.0	1775.9	1822.3	1857.0	1871.8	1894.1	1888.9
60°	1494.3	1513.8	1559.0	1631.5	1731.6	1846.0	1968.6	2088.5	2190.7	2267.8	2223.5
62.5°	1223.5	1248.8	1303.7	1396.5	1548.0	1731.1	1965.8	2249.1	2557.6	2743.8	2610.9
65°	765.6	791.8	847.6	947.0	1124.3	1352.0	1670.4	2139.8	2716.4	2997.0	2726.5
67.5°	298.5	312.8	343.0	406.6	539.8	742.3	1061.9	1594.7	2284.2	2530.2	2241.8
70°	149.6	151.0	156.6	168.4	197.0	255.8	389.2	739.3	1310.0	1582.2	1262.9
72.5°	108.1	108.3	111.1	116.3	125.4	138.6	163.9	226.3	426.0	651.1	399.3
75°	82.8	83.7	85.3	88.2	93.1	99.7	108.8	130.4	161.6	187.3	157.6
77.5°	63.8	65.7	66.8	69.4	72.5	76.9	79.5	87.7	102.0	107.4	105.7
80°	48.5	50.2	52.8	54.9	57.0	59.1	58.1	61.9	69.4	73.9	71.5
82.5°	31.0	32.8	40.3	42.2	43.1	44.5	42.9	43.1	46.4	49.2	46.4
85°	19.9	21.1	25.6	27.9	28.1	29.1	28.4	26.7	26.7	24.4	27.4
87.5°	9.1	9.4	11.5	13.6	14.1	12.7	12.4	12.0	9.6	9.1	9.8
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°	566.5	566.5	566.5	566.5	566.5	566.5	566.5	566.5
2.5°	566.3	566.7	567.0	567.7	567.9	567.9	568.1	568.6
5°	570.7	571.4	571.6	572.6	572.8	572.6	573.1	573.3
7.5°	578.7	579.9	580.3	581.3	580.6	581.5	581.7	581.7
10°	590.4	591.6	591.8	592.7	592.3	592.7	592.7	592.3
12.5°	605.9	606.1	605.4	606.1	605.2	605.6	604.9	604.5
15°	623.0	622.3	620.7	620.7	619.2	619.5	619.2	619.0
17.5°	639.6	638.2	637.1	636.6	635.4	635.2	634.5	634.5
20°	657.9	657.2	656.5	655.6	654.4	653.2	653.0	653.5
22.5°	680.0	679.7	679.7	679.3	677.6	676.5	675.8	675.8
25°	709.5	707.4	707.4	707.2	706.5	705.8	704.4	705.1
27.5°	742.8	741.6	742.6	742.3	741.6	741.6	740.7	740.7
30°	783.8	783.4	784.8	783.6	781.3	781.0	780.1	778.9
32.5°	831.2	830.7	832.8	831.4	827.7	825.6	823.7	822.8
35°	884.0	884.2	886.8	885.8	881.6	880.2	876.9	876.5
37.5°	941.6	945.4	949.9	950.8	947.3	946.3	942.8	940.9
40°	1009.4	1014.3	1021.1	1022.8	1019.0	1018.3	1013.4	1010.8
42.5°	1081.6	1090.1	1098.5	1099.9	1096.2	1092.4	1087.7	1085.8
45°	1162.3	1172.4	1183.4	1186.2	1180.6	1176.1	1170.0	1170.0
47.5°	1252.8	1265.5	1277.9	1285.6	1280.5	1275.8	1268.5	1263.8
50°	1359.7	1377.1	1393.2	1401.2	1393.0	1384.1	1371.4	1367.2
52.5°	1493.8	1512.6	1526.7	1522.4	1509.8	1497.3	1483.5	1477.9
55°	1665.0	1671.3	1671.3	1655.4	1630.1	1609.2	1587.4	1580.1
57.5°	1879.1	1854.7	1817.2	1769.6	1709.8	1657.7	1622.6	1605.9
60°	2130.7	2013.4	1880.9	1750.8	1643.9	1555.7	1503.4	1479.5
62.5°	2298.3	1991.6	1726.2	1517.3	1363.5	1257.2	1185.0	1156.9
65°	2148.0	1661.0	1305.5	1055.6	887.9	779.9	708.3	682.1
67.5°	1573.3	1040.8	695.2	498.3	365.1	291.2	261.9	249.7
70°	706.2	366.5	224.6	175.4	151.2	138.8	133.4	131.5
72.5°	212.9	154.0	129.9	117.2	107.6	101.5	97.1	96.6
75°	128.5	106.9	95.0	87.5	81.4	76.4	74.1	73.4
77.5°	89.8	78.5	72.9	67.5	62.8	59.1	57.0	55.3
80°	63.1	57.7	55.1	52.1	49.0	45.5	42.4	41.0
82.5°	42.2	41.0	41.0	39.2	36.6	33.3	27.2	25.8
85°	27.2	27.0	27.4	26.7	24.9	21.3	17.6	16.6
87.5°	12.7	12.9	14.3	14.1	13.6	11.3	8.9	8.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)