

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: P190839

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190839  
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: GLEON-AF-01-LED-E1-5NQ-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5313.2 lumens  
Efficiency: N/A  
Efficacy: 120.8 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

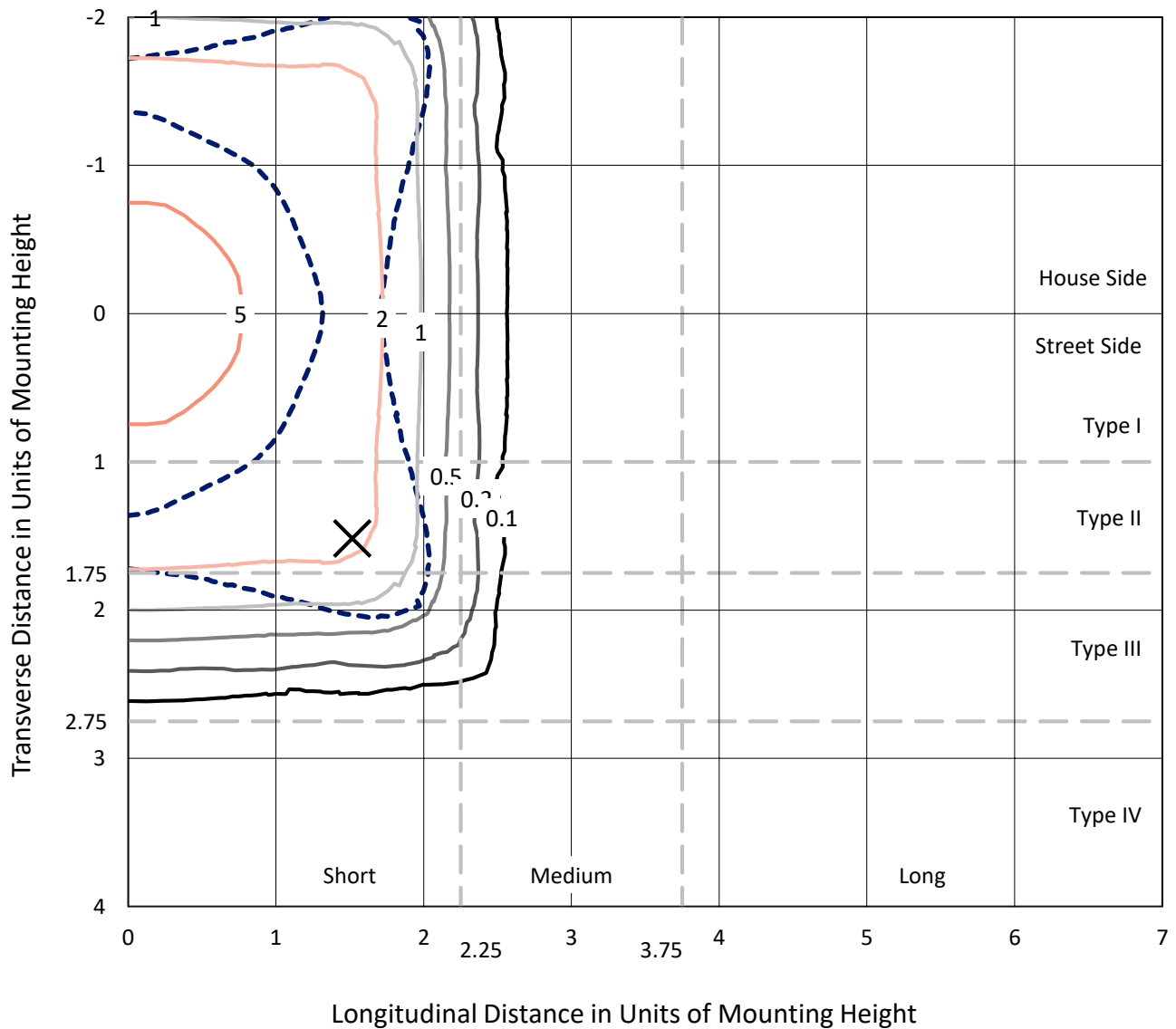
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

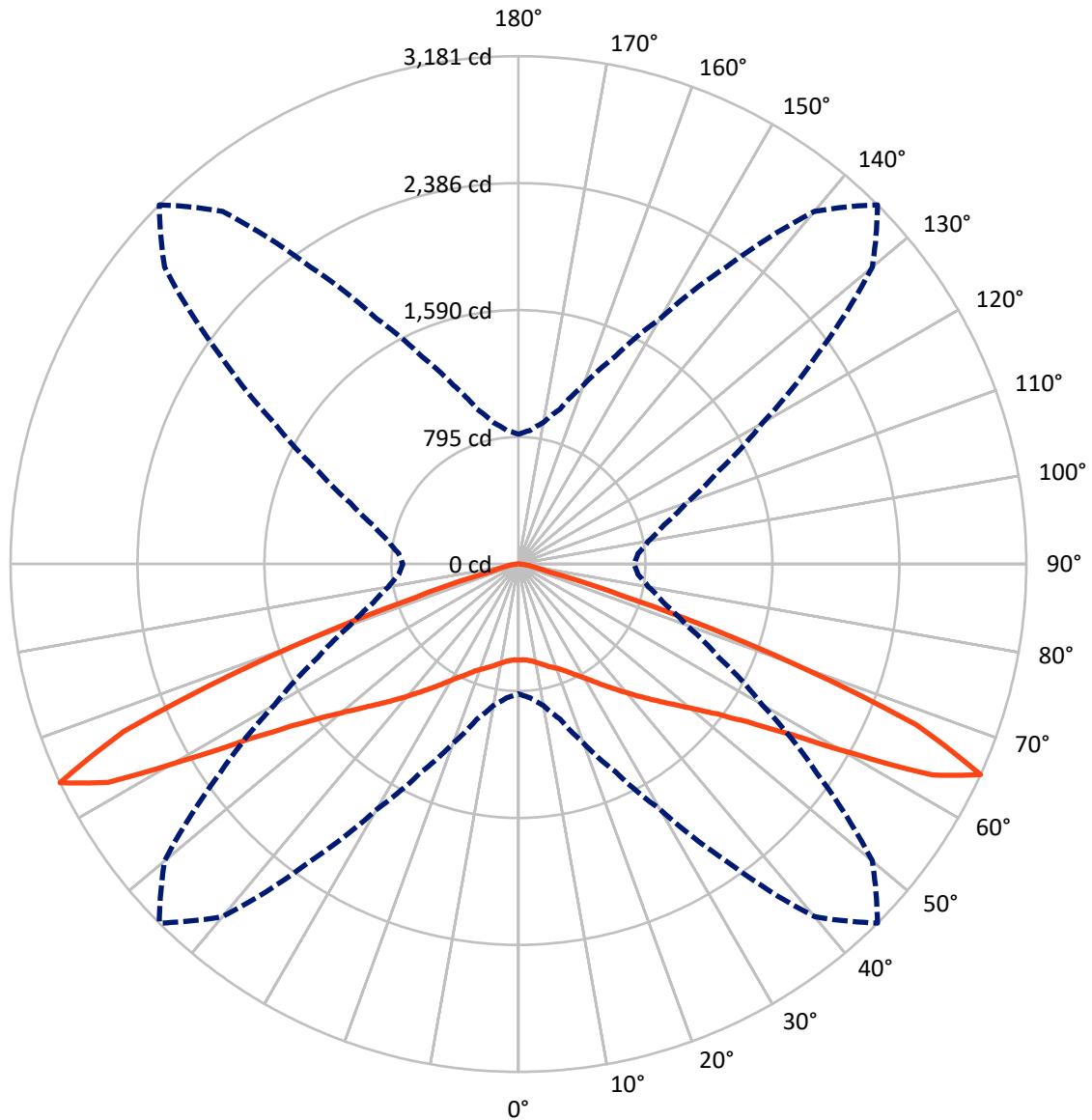
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6 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	2656.6	0.0	2656.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	2656.6	0.0	2656.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	5313.2	0.0	5313.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.6	1.1
10°-20°	187.9	3.5
20°-30°	351.4	6.6
30°-40°	594.3	11.2
40°-50°	971.8	18.3
50°-60°	1545.2	29.1
60°-70°	1396.8	26.3
70°-80°	176.8	3.3
80°-90°	30.4	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°	5313.2	100.0
0°-180°	5313.2	100.0



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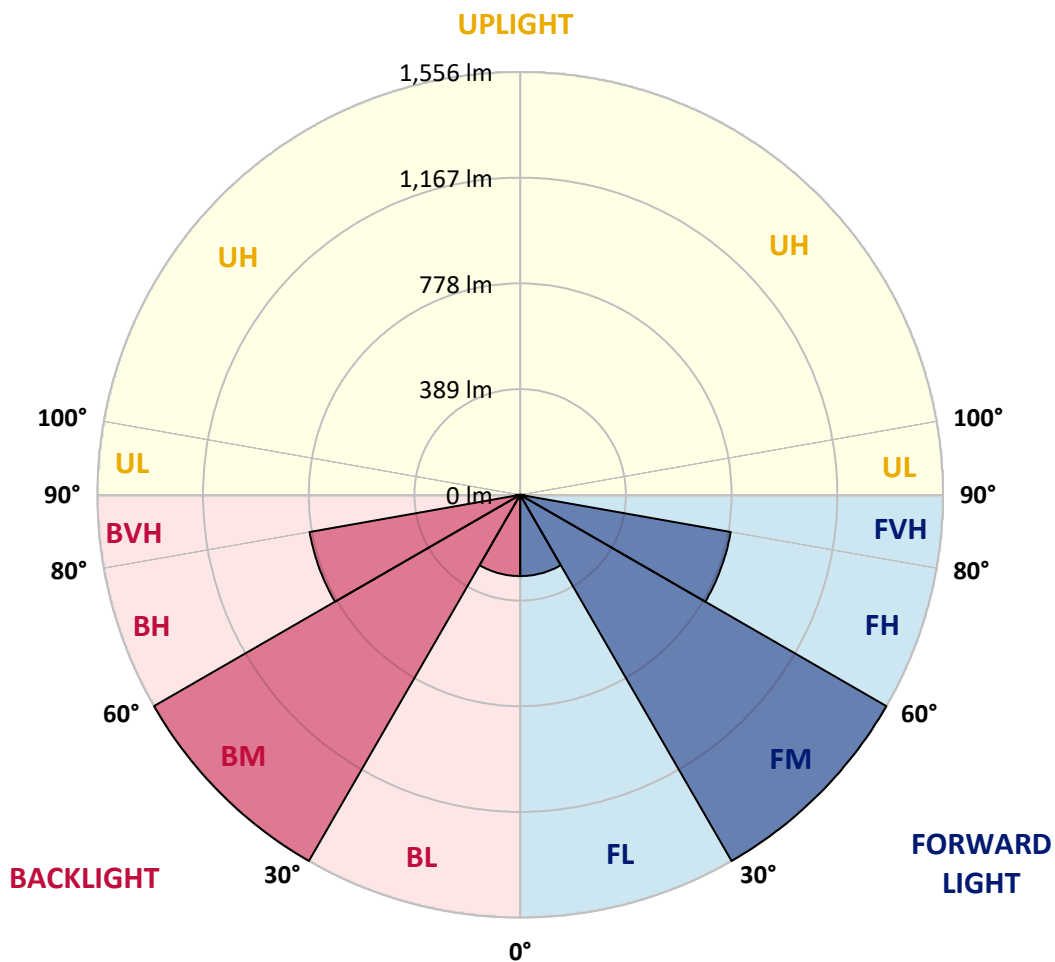
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	299.0	5.6			
FM	(30°-60°)	1555.7	29.3			
FH	(60°-80°)	786.8	14.8			G1/1800
FVH	(80°-90°)	15.2	0.3			G1/100
BL	(0°-30°)	299.0	5.6	B1/500		
BM	(30°-60°)	1555.7	29.3	B2/2500		
BH	(60°-80°)	786.8	14.8	B2/1000		G1/1800
BVH	(80°-90°)	15.2	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°	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2
2.5°	601.7	602.2	602.7	602.2	602.7	601.9	601.4	602.2	601.4	600.7	601.2
5°	606.9	607.1	607.1	606.4	607.1	606.7	605.9	606.9	606.2	605.4	605.9
7.5°	615.6	616.6	615.9	615.1	615.6	615.1	614.6	614.9	614.6	613.9	614.2
10°	627.3	628.1	627.6	627.3	627.8	627.6	627.1	626.9	627.1	626.4	626.4
12.5°	641.5	641.3	641.0	641.3	642.0	642.0	641.8	642.0	642.5	642.7	642.2
15°	655.4	655.9	655.9	655.9	657.5	658.7	659.4	659.9	660.9	661.1	660.2
17.5°	672.9	672.9	672.6	672.9	674.3	676.4	677.1	678.1	679.0	679.9	678.6
20°	692.2	692.7	692.7	693.3	695.3	697.4	697.4	698.0	697.4	698.0	697.2
22.5°	715.9	717.4	717.4	717.6	719.6	722.4	721.6	722.4	721.2	722.1	721.2
25°	746.8	749.0	748.5	748.5	750.0	751.8	752.0	753.5	753.2	754.4	753.7
27.5°	781.6	785.1	786.0	785.8	786.9	788.6	789.1	790.8	789.8	790.8	790.3
30°	823.4	824.9	826.9	827.7	828.9	830.6	830.6	830.8	829.6	831.1	831.9
32.5°	866.7	869.4	871.5	876.0	878.1	879.4	879.1	879.6	878.4	880.4	881.9
35°	923.9	926.0	929.1	932.6	935.6	935.4	934.7	934.9	934.9	936.6	938.1
37.5°	992.9	993.4	997.6	1002.6	1004.0	1002.6	998.1	997.1	994.8	997.1	999.6
40°	1065.8	1067.6	1075.9	1079.2	1079.9	1077.3	1070.7	1067.0	1062.0	1064.8	1068.3
42.5°	1142.1	1145.6	1153.4	1159.1	1161.6	1159.8	1150.9	1145.2	1138.6	1140.2	1143.7
45°	1226.7	1231.0	1242.0	1247.4	1252.2	1249.4	1240.7	1232.0	1221.8	1222.5	1228.1
47.5°	1321.3	1325.5	1339.8	1349.0	1351.4	1350.9	1341.2	1329.3	1315.3	1314.9	1319.6
50°	1427.3	1431.5	1449.2	1463.4	1470.6	1469.9	1458.4	1441.5	1424.6	1424.9	1430.8
52.5°	1530.8	1536.1	1554.5	1578.9	1593.0	1603.3	1596.3	1580.4	1559.7	1560.2	1565.7
55°	1627.9	1636.6	1657.8	1690.8	1717.2	1745.9	1754.1	1753.5	1741.2	1744.6	1750.1
57.5°	1674.9	1687.9	1720.5	1772.7	1826.5	1884.7	1934.0	1970.8	1986.5	2010.1	2004.7
60°	1585.9	1606.5	1654.5	1731.4	1837.6	1959.1	2089.3	2216.4	2324.9	2406.8	2359.7
62.5°	1298.4	1325.3	1383.5	1482.1	1642.9	1837.2	2086.2	2386.9	2714.3	2911.9	2770.8
65°	812.4	840.4	899.6	1005.0	1193.2	1434.8	1772.7	2270.8	2882.8	3180.7	2893.5
67.5°	316.8	331.9	364.1	431.5	572.9	787.8	1127.0	1692.4	2424.2	2685.2	2379.2
70°	158.8	160.3	166.2	178.7	209.0	271.5	413.1	784.6	1390.3	1679.2	1340.3
72.5°	114.7	115.0	117.9	123.5	133.1	147.1	173.9	240.1	452.1	691.0	423.8
75°	87.9	88.8	90.5	93.6	98.8	105.8	115.5	138.3	171.4	198.9	167.3
77.5°	67.7	69.7	70.9	73.7	76.9	81.6	84.4	93.1	108.2	114.0	112.2
80°	51.6	53.3	56.0	58.2	60.5	62.7	61.7	65.7	73.7	78.4	75.9
82.5°	32.8	34.9	42.8	44.8	45.8	47.3	45.5	45.8	49.3	52.3	49.3
85°	21.2	22.4	27.1	29.6	29.9	30.9	30.1	28.3	28.3	25.9	29.2
87.5°	9.7	9.9	12.2	14.4	14.9	13.4	13.2	12.7	10.2	9.7	10.4
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°	601.2	601.2	601.2	601.2	601.2	601.2	601.2	601.2
2.5°	601.0	601.4	601.7	602.4	602.7	602.7	602.9	603.4
5°	605.7	606.4	606.7	607.6	607.9	607.6	608.1	608.5
7.5°	614.2	615.4	615.9	616.8	616.1	617.1	617.4	617.4
10°	626.6	627.8	628.1	629.0	628.6	629.0	629.0	628.6
12.5°	643.0	643.2	642.5	643.2	642.2	642.7	642.0	641.5
15°	661.1	660.4	658.7	658.7	657.1	657.5	657.1	656.9
17.5°	678.8	677.3	676.1	675.6	674.3	674.1	673.3	673.3
20°	698.3	697.4	696.7	695.7	694.5	693.3	693.0	693.6
22.5°	721.6	721.4	721.4	720.9	719.1	717.9	717.2	717.2
25°	753.0	750.7	750.7	750.5	749.7	749.0	747.5	748.3
27.5°	788.3	787.1	788.1	787.8	787.1	787.1	786.0	786.0
30°	831.9	831.4	832.9	831.7	829.1	828.9	827.9	826.6
32.5°	882.1	881.7	883.8	882.4	878.4	876.2	874.2	873.2
35°	938.1	938.4	941.1	940.1	935.6	934.2	930.7	930.2
37.5°	999.3	1003.3	1008.0	1009.0	1005.3	1004.3	1000.5	998.6
40°	1071.2	1076.5	1083.7	1085.5	1081.5	1080.7	1075.4	1072.8
42.5°	1147.9	1156.9	1165.8	1167.3	1163.3	1159.3	1154.4	1152.4
45°	1233.5	1244.2	1255.9	1258.8	1252.9	1248.2	1241.7	1241.7
47.5°	1329.5	1342.9	1356.1	1364.4	1358.9	1354.0	1346.2	1341.2
50°	1443.0	1461.4	1478.6	1487.1	1478.4	1468.9	1455.5	1451.0
52.5°	1585.4	1605.2	1620.1	1615.8	1602.2	1589.1	1574.4	1568.4
55°	1767.0	1773.7	1773.7	1756.8	1729.9	1707.8	1684.6	1676.9
57.5°	1994.1	1968.3	1928.5	1877.9	1814.5	1759.3	1721.9	1704.3
60°	2261.2	2136.7	1996.2	1858.1	1744.6	1651.0	1595.6	1570.1
62.5°	2439.1	2113.6	1831.9	1610.2	1447.0	1334.2	1257.6	1227.7
65°	2279.6	1762.7	1385.5	1120.2	942.3	827.7	751.8	723.8
67.5°	1669.7	1104.6	737.9	528.8	387.4	309.0	277.9	265.0
70°	749.5	388.9	238.3	186.2	160.5	147.3	141.6	139.6
72.5°	226.0	163.5	137.9	124.4	114.3	107.7	103.0	102.5
75°	136.4	113.4	100.8	92.8	86.3	81.1	78.7	77.8
77.5°	95.3	83.4	77.4	71.7	66.7	62.7	60.5	58.7
80°	66.9	61.2	58.5	55.2	52.0	48.3	45.0	43.6
82.5°	44.8	43.6	43.6	41.5	38.8	35.3	28.8	27.4
85°	28.8	28.6	29.2	28.3	26.4	22.6	18.6	17.7
87.5°	13.4	13.7	15.1	14.9	14.4	12.0	9.4	9.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)