

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: P190849

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190849  
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  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6576.6 lumens  
Efficiency: N/A  
Efficacy: 111.5 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): 59  
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

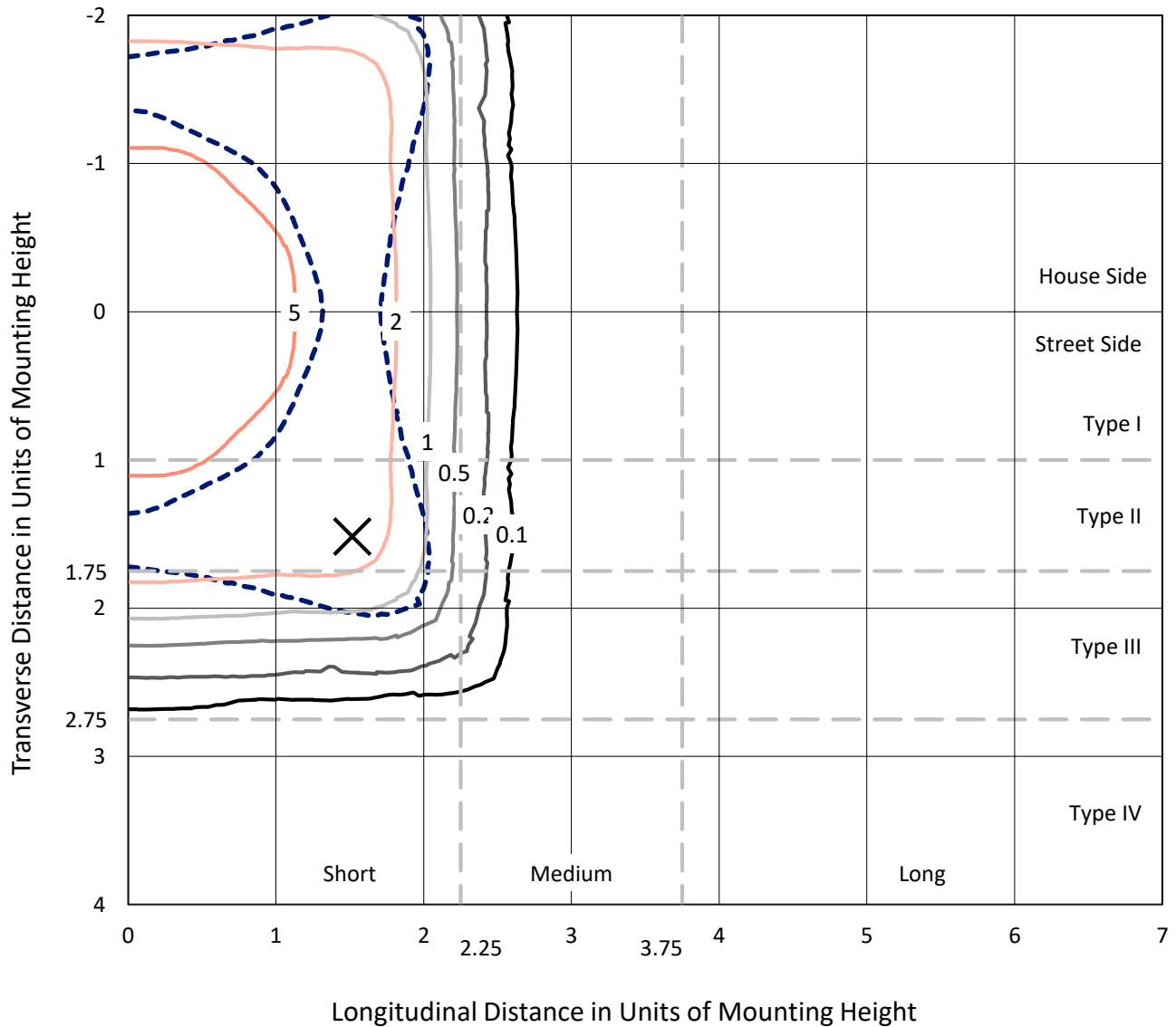


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### Iso-Footcandle Lines of Horizontal Illumination

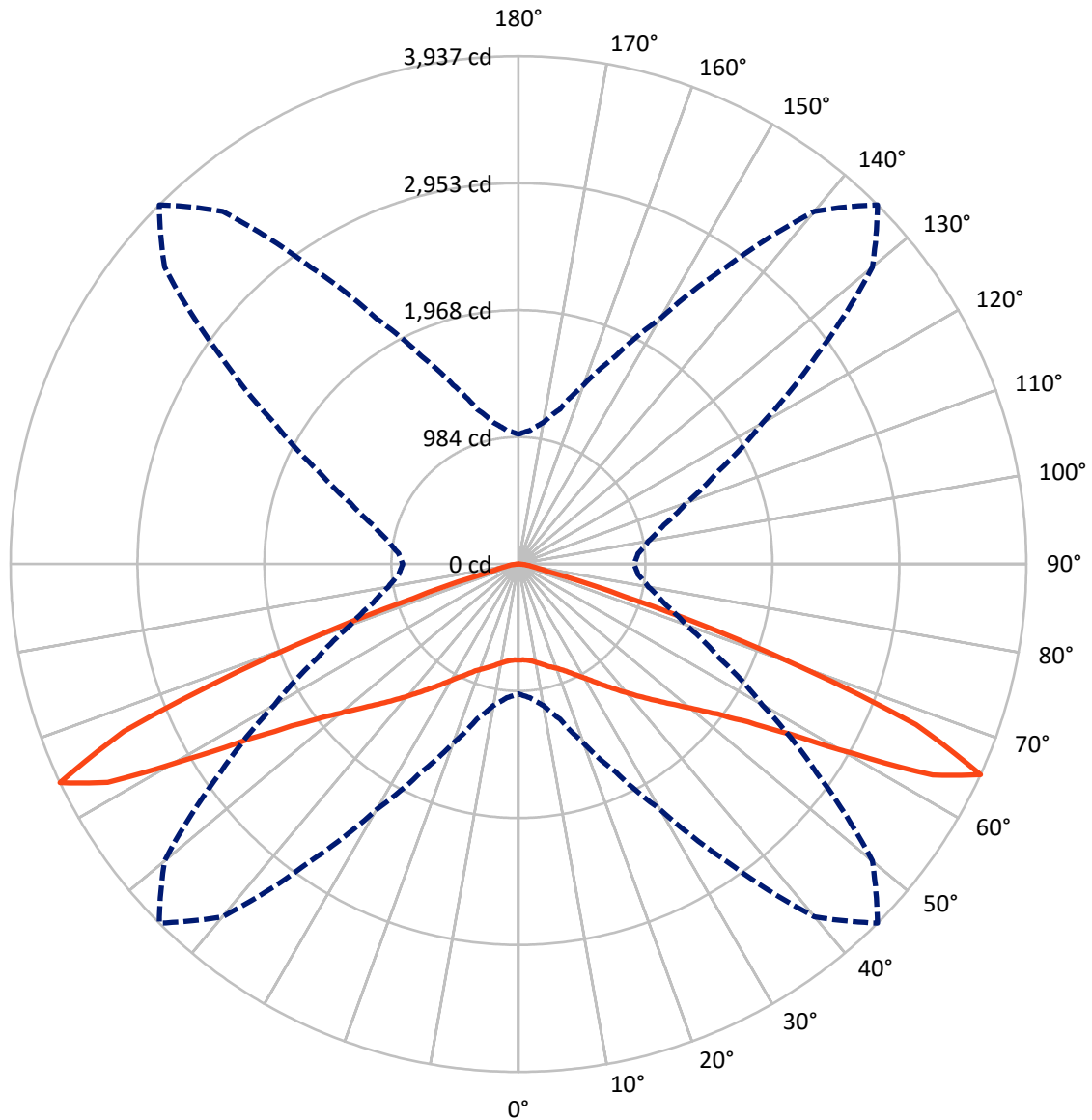
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 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	3288.3	0.0	3288.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3288.3	0.0	3288.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6576.6	0.0	6576.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.5	1.1
10°-20°	232.6	3.5
20°-30°	435.0	6.6
30°-40°	735.6	11.2
40°-50°	1202.8	18.3
50°-60°	1912.7	29.1
60°-70°	1728.9	26.3
70°-80°	218.8	3.3
80°-90°	37.6	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°	6576.6	100.0
0°-180°	6576.6	100.0



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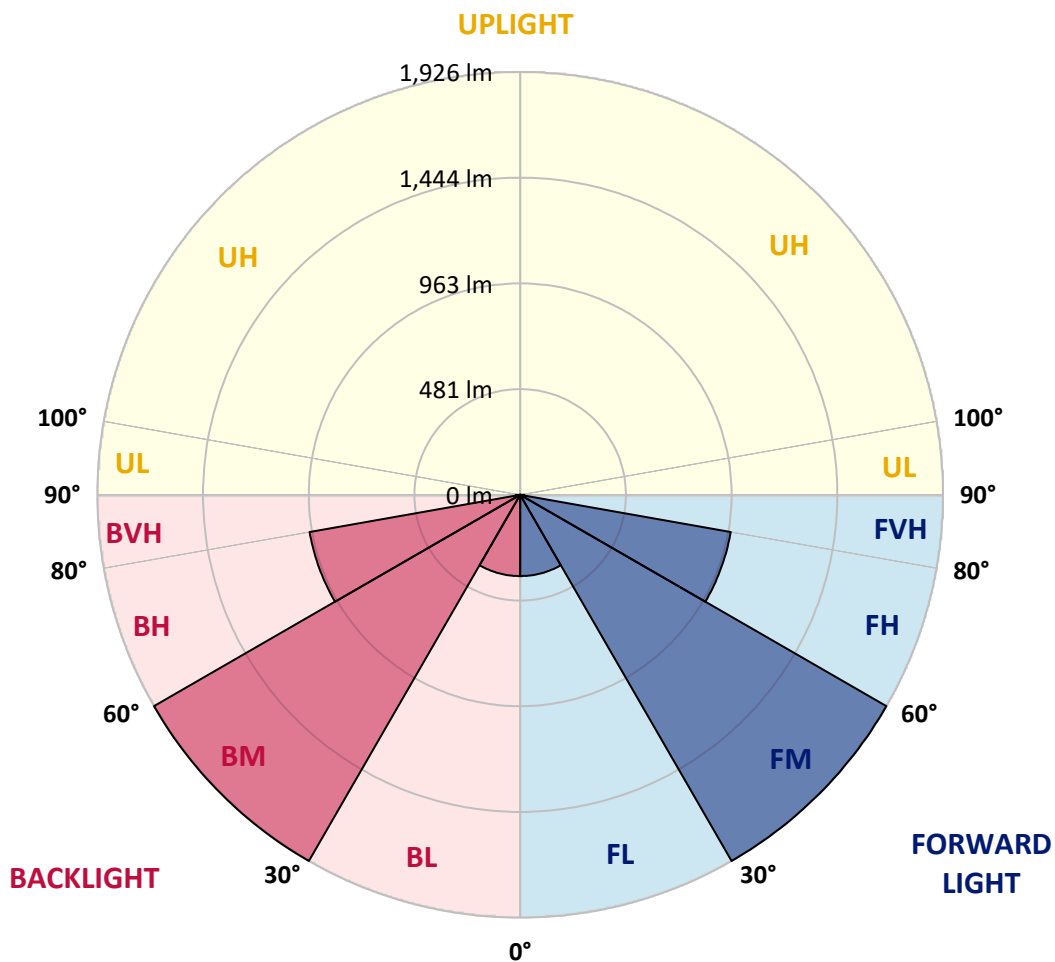
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	370.1	5.6			
FM	(30°-60°)	1925.5	29.3			
FH	(60°-80°)	973.9	14.8			G1/1800
FVH	(80°-90°)	18.8	0.3			G1/100
BL	(0°-30°)	370.1	5.6	B1/500		
BM	(30°-60°)	1925.5	29.3	B2/2500		
BH	(60°-80°)	973.9	14.8	B2/1000		G1/1800
BVH	(80°-90°)	18.8	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°	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1
2.5°	744.7	745.3	746.0	745.3	746.0	745.0	744.4	745.3	744.4	743.5	744.1
5°	751.3	751.6	751.6	750.6	751.6	750.9	750.0	751.3	750.3	749.4	750.0
7.5°	762.0	763.2	762.3	761.4	762.0	761.4	760.8	761.1	760.8	759.8	760.2
10°	776.5	777.4	776.8	776.5	777.1	776.8	776.2	775.9	776.2	775.3	775.3
12.5°	794.0	793.7	793.4	793.7	794.6	794.6	794.3	794.6	795.2	795.5	794.9
15°	811.3	811.9	811.9	811.9	813.8	815.3	816.2	816.8	818.1	818.4	817.1
17.5°	832.9	832.9	832.6	832.9	834.7	837.2	838.1	839.3	840.6	841.5	839.9
20°	856.8	857.4	857.4	858.1	860.6	863.4	863.4	864.0	863.4	864.0	863.1
22.5°	886.1	888.0	888.0	888.3	890.8	894.2	893.2	894.2	892.6	893.9	892.6
25°	924.3	927.1	926.5	926.5	928.3	930.5	930.8	932.6	932.3	933.9	932.9
27.5°	967.4	971.8	973.0	972.7	974.0	976.1	976.7	978.9	977.6	978.9	978.2
30°	1019.2	1021.0	1023.5	1024.4	1025.9	1028.2	1028.2	1028.5	1026.8	1028.8	1029.7
32.5°	1072.8	1076.1	1078.6	1084.2	1087.0	1088.5	1088.2	1088.8	1087.3	1089.7	1091.6
35°	1143.7	1146.1	1150.1	1154.4	1158.1	1157.8	1156.9	1157.2	1157.2	1159.3	1161.2
37.5°	1229.0	1229.6	1234.8	1240.9	1242.8	1240.9	1235.4	1234.2	1231.4	1234.2	1237.3
40°	1319.2	1321.3	1331.8	1335.8	1336.8	1333.3	1325.3	1320.7	1314.6	1318.0	1322.3
42.5°	1413.7	1418.0	1427.6	1434.7	1437.8	1435.6	1424.6	1417.4	1409.4	1411.3	1415.6
45°	1518.5	1523.7	1537.3	1544.0	1549.9	1546.5	1535.8	1524.9	1512.3	1513.3	1520.0
47.5°	1635.5	1640.7	1658.3	1669.7	1672.7	1672.1	1660.1	1645.3	1628.1	1627.5	1633.3
50°	1766.7	1772.0	1793.8	1811.3	1820.3	1819.4	1805.2	1784.2	1763.4	1763.7	1771.0
52.5°	1894.8	1901.4	1924.1	1954.2	1971.8	1984.5	1975.8	1956.2	1930.6	1931.2	1938.0
55°	2015.0	2025.7	2051.9	2092.9	2125.6	2161.0	2171.1	2170.5	2155.2	2159.4	2166.2
57.5°	2073.2	2089.2	2129.6	2194.2	2260.7	2332.8	2393.8	2439.4	2458.8	2488.0	2481.3
60°	1962.9	1988.5	2047.9	2143.1	2274.6	2424.9	2586.0	2743.5	2877.7	2979.0	2920.8
62.5°	1607.2	1640.4	1712.5	1834.5	2033.4	2274.0	2582.3	2954.4	3359.7	3604.3	3429.6
65°	1005.7	1040.1	1113.5	1244.0	1476.8	1775.9	2194.2	2810.9	3568.3	3936.9	3581.5
67.5°	392.1	410.9	450.6	534.1	709.0	975.2	1395.0	2094.7	3000.6	3323.7	2944.9
70°	196.5	198.4	205.7	221.2	258.7	336.0	511.3	971.2	1720.8	2078.4	1658.9
72.5°	142.0	142.3	146.0	152.7	164.8	182.0	215.3	297.3	559.7	855.3	524.6
75°	108.7	110.0	112.1	115.8	122.2	130.9	142.9	171.2	212.3	246.1	206.9
77.5°	83.8	86.2	87.8	91.1	95.1	101.1	104.4	115.2	134.0	141.1	138.9
80°	63.7	65.9	69.3	72.1	74.9	77.6	76.4	81.3	91.1	97.0	93.9
82.5°	40.6	43.2	53.0	55.4	56.7	58.5	56.4	56.7	61.0	64.7	61.0
85°	26.2	27.7	33.6	36.6	36.9	38.2	37.2	35.1	35.1	32.0	36.0
87.5°	12.0	12.3	15.1	17.9	18.5	16.7	16.4	15.8	12.6	12.0	12.9
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°	744.1	744.1	744.1	744.1	744.1	744.1	744.1	744.1
2.5°	743.8	744.4	744.7	745.7	746.0	746.0	746.3	747.0
5°	749.7	750.6	750.9	752.2	752.5	752.2	752.8	753.1
7.5°	760.2	761.7	762.3	763.5	762.6	763.8	764.1	764.1
10°	775.6	777.1	777.4	778.7	778.1	778.7	778.7	778.1
12.5°	795.9	796.2	795.2	796.2	794.9	795.5	794.6	794.0
15°	818.4	817.4	815.3	815.3	813.5	813.8	813.5	813.1
17.5°	840.3	838.4	836.9	836.3	834.7	834.4	833.5	833.5
20°	864.3	863.4	862.4	861.2	859.7	858.1	857.7	858.5
22.5°	893.2	892.9	892.9	892.3	890.2	888.6	887.7	887.7
25°	932.0	929.2	929.2	928.9	928.0	927.1	925.3	926.2
27.5°	975.8	974.3	975.5	975.2	974.3	974.3	973.0	973.0
30°	1029.7	1029.1	1030.9	1029.4	1026.2	1025.9	1024.7	1023.2
32.5°	1091.9	1091.3	1094.0	1092.2	1087.3	1084.5	1082.0	1080.7
35°	1161.2	1161.5	1164.8	1163.6	1158.1	1156.2	1151.9	1151.3
37.5°	1237.0	1241.9	1247.7	1248.9	1244.3	1243.1	1238.5	1236.0
40°	1325.9	1332.4	1341.4	1343.5	1338.6	1337.7	1331.2	1327.8
42.5°	1420.8	1431.9	1443.0	1444.8	1439.9	1435.0	1428.9	1426.4
45°	1526.8	1540.1	1554.5	1558.2	1550.8	1545.0	1537.0	1537.0
47.5°	1645.6	1662.3	1678.7	1688.8	1682.0	1675.9	1666.3	1660.1
50°	1786.1	1808.9	1830.2	1840.6	1829.9	1818.2	1801.5	1796.0
52.5°	1962.3	1987.0	2005.4	1999.9	1983.2	1966.9	1948.7	1941.4
55°	2187.2	2195.5	2195.5	2174.5	2141.2	2113.8	2085.2	2075.7
57.5°	2468.4	2436.4	2387.1	2324.6	2246.0	2177.6	2131.4	2109.5
60°	2798.8	2644.8	2470.8	2299.9	2159.4	2043.7	1974.9	1943.5
62.5°	3019.0	2616.2	2267.6	1993.1	1791.1	1651.6	1556.6	1519.7
65°	2821.6	2182.0	1715.0	1386.6	1166.4	1024.4	930.5	896.0
67.5°	2066.7	1367.3	913.2	654.5	479.6	382.6	344.0	328.1
70°	927.7	481.4	295.0	230.4	198.7	182.3	175.2	172.8
72.5°	279.7	202.3	170.6	154.0	141.4	133.4	127.6	126.9
75°	168.8	140.5	124.7	114.9	106.9	100.5	97.3	96.4
77.5°	117.9	103.2	95.7	88.7	82.6	77.6	74.9	72.7
80°	82.9	75.8	72.4	68.3	64.3	59.7	55.8	53.9
82.5°	55.4	53.9	53.9	51.5	48.1	43.8	35.7	33.9
85°	35.7	35.4	36.0	35.1	32.6	28.0	23.1	21.9
87.5°	16.7	17.0	18.8	18.5	17.9	14.8	11.7	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)