

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: P190819

Luminaire Tested: **GLEON-AF-01-LED-E1-5MQ-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
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-E1-5MQ-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7346.8 lumens
Efficiency: N/A
Efficacy: 109.7 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

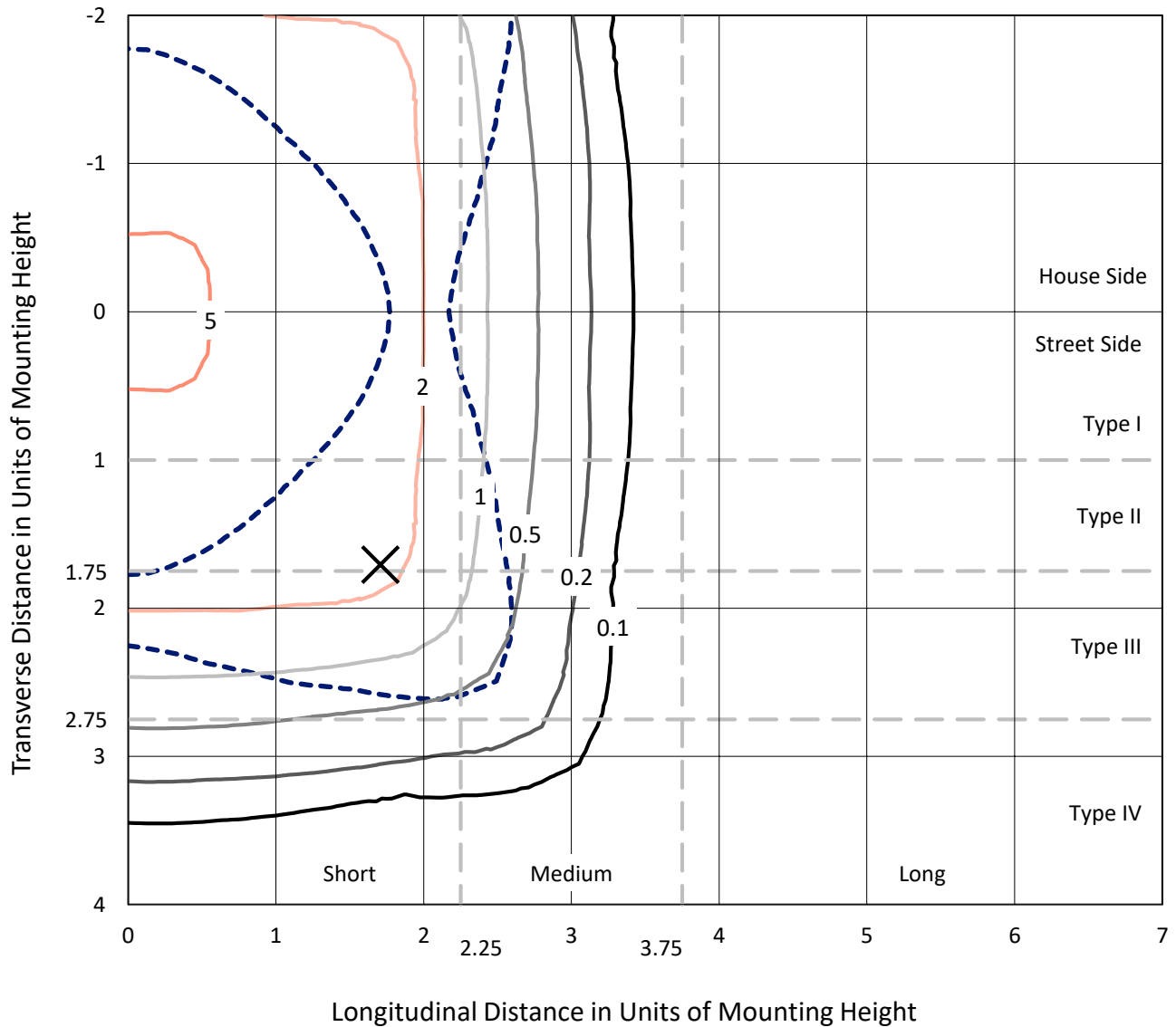
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P190819
 CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-1200

Iso-Footcandle Lines of Horizontal Illumination

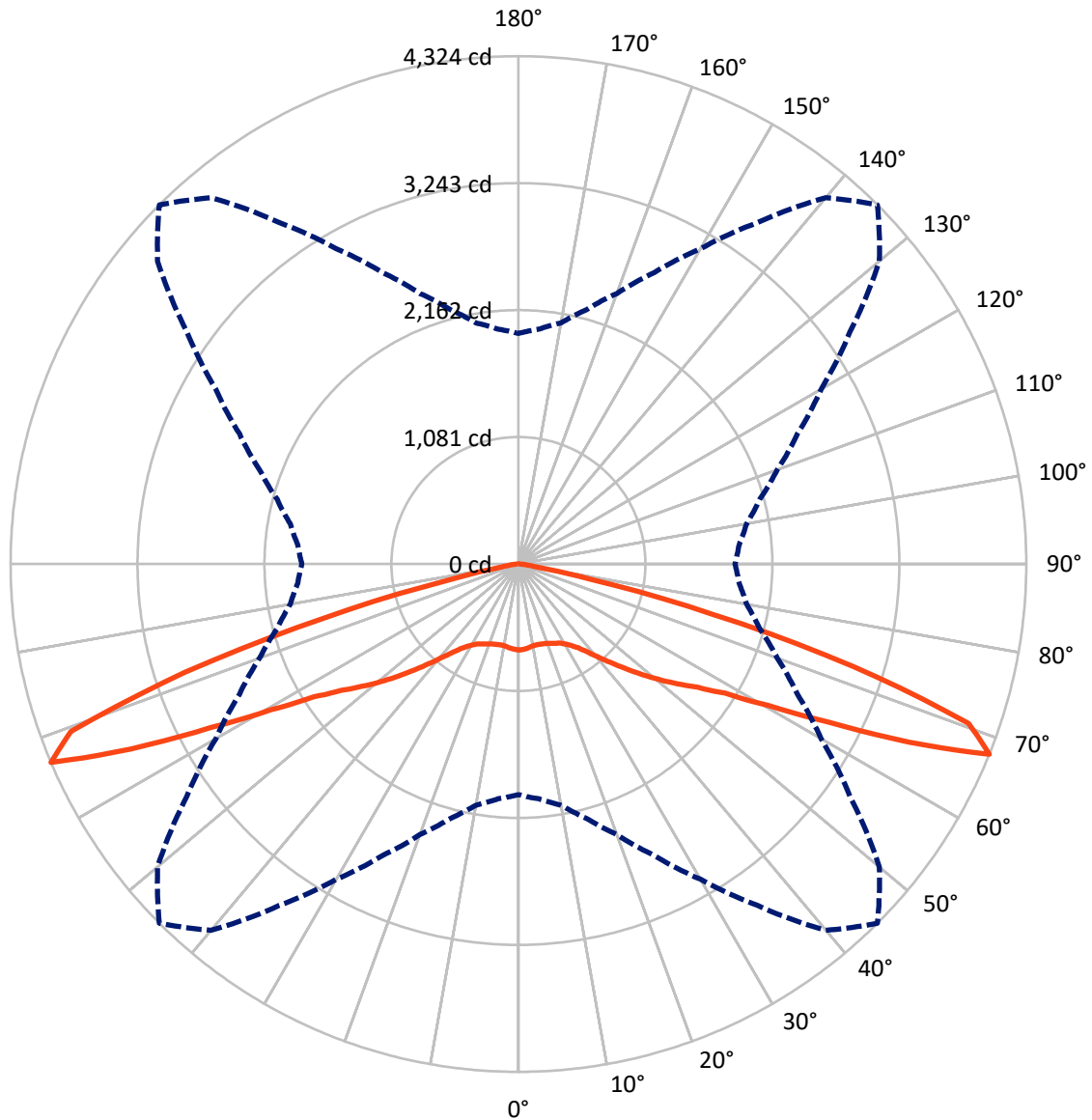
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.3 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P190819
CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-1200

Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P190819

CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-1200

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3673.4	0.0	3673.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3673.4	0.0	3673.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	7346.8	0.0	7346.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.5	0.9
10°-20°	198.8	2.7
20°-30°	338.0	4.6
30°-40°	552.6	7.5
40°-50°	986.5	13.4
50°-60°	1663.2	22.6
60°-70°	2581.1	35.1
70°-80°	906.9	12.3
80°-90°	51.3	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°	7346.8	100.0
0°-180°	7346.8	100.0



REPORT NUMBER: P190819

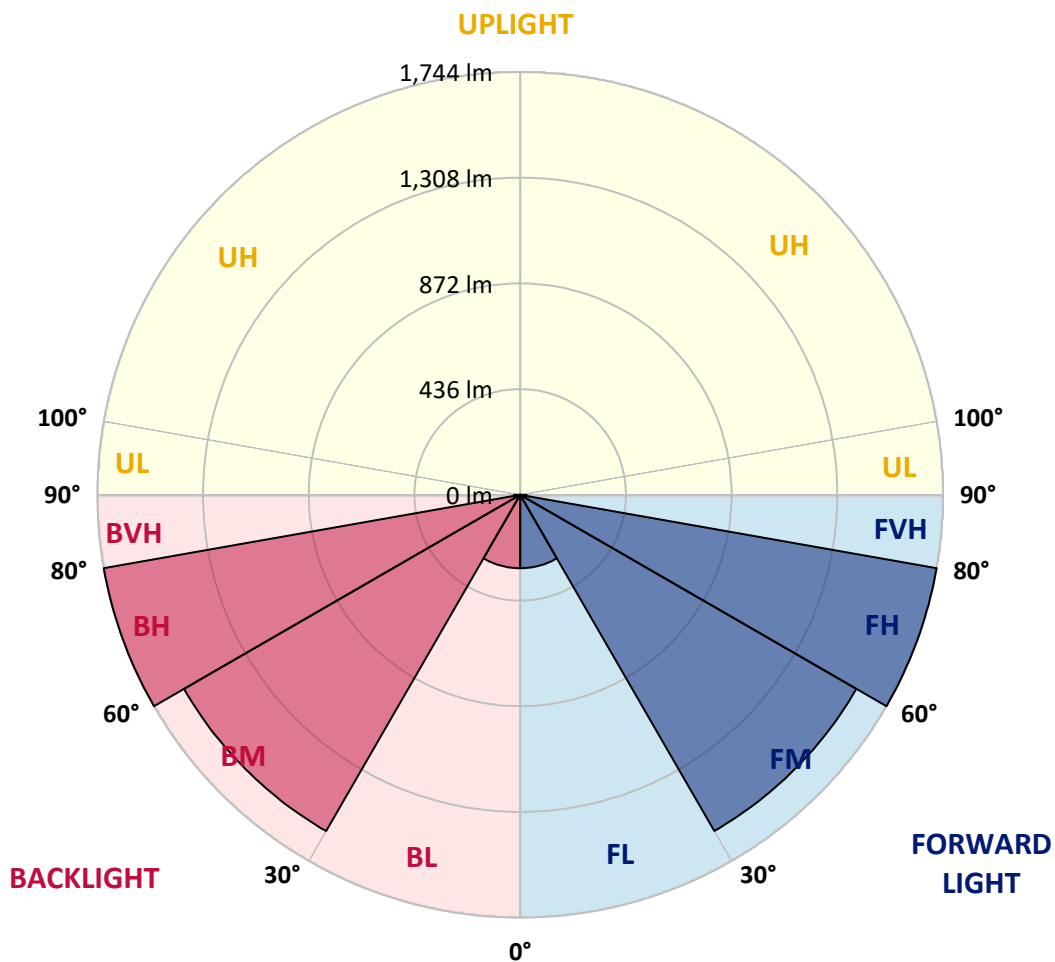
CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-1200

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	302.7	4.1			
FM	(30°-60°)	1601.1	21.8			
FH	(60°-80°)	1744.0	23.7			G1/1800
FVH	(80°-90°)	25.6	0.3			G1/100
BL	(0°-30°)	302.7	4.1	B1/500		
BM	(30°-60°)	1601.1	21.8	B2/2500		
BH	(60°-80°)	1744.0	23.7	B3/2500		G1/1800
BVH	(80°-90°)	25.6	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





REPORT NUMBER: P190819

CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-1200

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1
2.5°	729.5	730.1	730.1	730.1	729.8	729.8	729.1	729.8	729.5	728.4	728.8
5°	723.3	724.0	724.0	723.7	724.8	724.4	723.3	724.0	723.7	723.0	723.3
7.5°	714.5	715.6	715.6	715.2	716.3	716.0	715.2	715.6	715.6	714.5	714.5
10°	704.8	705.4	705.4	705.1	706.8	706.8	706.4	707.5	707.8	706.8	706.1
12.5°	695.6	696.6	696.6	698.1	699.7	700.4	702.1	703.4	704.8	704.4	703.1
15°	690.3	690.9	692.2	694.0	696.6	699.0	701.7	704.8	707.5	708.2	706.1
17.5°	686.9	687.8	689.9	692.2	696.0	700.0	704.1	708.2	711.9	713.2	710.8
20°	685.9	686.5	688.5	692.6	697.7	703.8	709.5	714.2	719.3	721.0	719.3
22.5°	687.8	689.3	691.6	696.3	703.1	710.8	717.6	724.0	730.5	733.5	731.1
25°	697.0	698.4	701.4	707.5	714.9	723.0	730.8	738.3	744.0	747.0	745.3
27.5°	713.9	715.6	719.3	725.4	733.5	742.3	750.7	756.8	761.6	762.5	760.6
30°	739.3	743.0	747.4	754.1	763.5	771.0	779.5	784.8	790.6	790.6	788.9
32.5°	778.8	782.5	787.3	793.6	801.1	809.2	816.6	821.3	827.5	827.8	823.7
35°	837.9	839.5	843.6	847.7	854.5	861.5	868.0	871.0	876.1	876.4	872.7
37.5°	916.0	916.3	919.0	920.3	926.4	934.2	940.3	942.3	947.0	946.3	942.6
40°	1006.8	1008.5	1009.6	1011.6	1017.9	1025.4	1031.9	1032.9	1037.9	1036.9	1032.2
42.5°	1111.9	1112.6	1118.3	1121.4	1127.4	1131.2	1139.3	1140.3	1146.3	1143.7	1138.2
45°	1229.8	1235.9	1241.2	1247.4	1253.8	1258.2	1264.6	1263.2	1267.3	1263.2	1260.2
47.5°	1353.8	1358.2	1370.3	1379.9	1390.3	1394.0	1403.2	1399.1	1403.2	1397.4	1396.3
50°	1490.3	1498.1	1508.5	1519.4	1530.5	1536.6	1548.4	1543.3	1548.7	1543.3	1540.3
52.5°	1624.8	1626.8	1649.8	1665.7	1681.2	1688.3	1695.3	1693.0	1693.4	1693.0	1690.0
55°	1752.5	1757.2	1780.1	1801.8	1828.8	1848.8	1861.0	1859.6	1856.6	1853.5	1848.5
57.5°	1896.4	1901.2	1927.4	1954.1	1984.9	2013.3	2037.9	2063.3	2073.1	2075.8	2064.6
60°	2091.0	2090.7	2125.8	2158.2	2202.2	2244.4	2298.5	2353.5	2416.7	2446.1	2407.2
62.5°	2289.0	2297.1	2347.8	2405.3	2495.8	2584.0	2683.6	2781.6	2881.7	2963.1	2876.5
65°	2265.3	2296.4	2371.8	2501.8	2669.1	2867.7	3082.7	3310.1	3515.5	3656.6	3498.2
67.5°	1963.3	2007.5	2084.3	2242.4	2451.5	2738.0	3098.8	3548.5	4071.2	4323.9	4010.8
70°	1423.0	1473.0	1553.5	1707.9	1915.0	2187.3	2579.3	3119.1	3811.1	4065.8	3720.9
72.5°	708.2	735.2	784.8	883.2	1039.9	1260.9	1616.4	2135.3	2747.4	2981.3	2666.0
75°	240.6	253.1	261.5	293.6	343.3	430.0	606.8	933.5	1424.0	1707.2	1403.8
77.5°	138.8	139.2	145.0	150.7	159.2	168.6	192.2	252.4	436.5	620.0	451.7
80°	89.9	89.5	94.2	98.6	104.4	109.1	110.5	116.9	134.8	159.8	142.9
82.5°	46.6	52.4	62.8	68.5	79.4	81.4	78.8	76.3	80.7	83.8	85.8
85°	25.7	22.3	33.5	43.3	48.0	48.7	48.7	45.9	47.7	46.6	50.6
87.5°	11.9	10.8	13.2	21.3	22.6	19.2	20.3	17.9	12.9	12.5	14.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P190819

CATALOG NUMBER: GLEON-AF-01-LED-E1-5MQ-1200

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	732.1	732.1	732.1	732.1	732.1	732.1	732.1	732.1
2.5°	728.8	729.1	729.1	730.1	730.5	731.1	731.8	732.1
5°	723.0	724.0	723.3	724.4	724.4	725.1	725.1	725.4
7.5°	714.5	715.6	715.6	715.6	715.2	716.3	716.3	716.3
10°	705.8	706.4	706.1	705.4	704.8	705.8	705.4	705.1
12.5°	703.1	701.4	700.0	699.4	698.1	698.4	697.3	697.3
15°	704.8	701.7	699.4	698.4	697.0	696.3	695.6	696.0
17.5°	709.2	705.4	702.5	700.7	699.0	698.1	696.6	697.0
20°	717.0	712.6	708.2	704.8	701.7	700.0	699.0	698.7
22.5°	728.4	722.0	715.6	710.5	706.4	704.1	703.1	702.5
25°	741.6	734.5	727.1	721.3	717.3	714.2	712.2	712.2
27.5°	758.1	752.4	745.6	738.9	735.2	732.1	730.8	730.1
30°	785.8	780.4	775.1	768.6	763.9	760.9	758.5	756.5
32.5°	821.3	816.9	812.5	807.8	803.4	799.3	795.7	794.0
35°	871.3	868.0	864.9	859.5	857.8	855.5	853.4	851.7
37.5°	940.3	938.9	938.9	933.1	931.8	930.8	928.7	929.1
40°	1030.8	1032.2	1030.5	1028.5	1027.5	1024.7	1024.7	1027.1
42.5°	1137.9	1139.0	1142.6	1139.3	1142.9	1139.6	1137.6	1139.3
45°	1262.2	1266.0	1273.4	1270.0	1272.3	1266.6	1259.6	1259.9
47.5°	1401.7	1405.1	1408.2	1405.8	1406.1	1396.7	1387.2	1384.9
50°	1546.7	1548.0	1549.8	1546.4	1547.1	1536.6	1525.7	1526.1
52.5°	1690.0	1696.4	1703.1	1694.0	1692.0	1680.2	1665.0	1658.9
55°	1853.8	1863.0	1855.2	1839.3	1823.4	1807.6	1787.6	1784.2
57.5°	2055.9	2040.4	2016.0	1986.0	1964.0	1941.7	1921.4	1912.9
60°	2336.9	2278.5	2234.6	2190.0	2162.0	2134.6	2107.9	2103.9
62.5°	2734.3	2633.3	2545.8	2453.5	2378.2	2319.4	2272.5	2259.3
65°	3232.3	2993.5	2786.3	2593.1	2425.1	2298.5	2218.7	2183.6
67.5°	3446.5	2974.8	2619.8	2345.4	2125.8	1972.5	1886.3	1843.4
70°	3028.5	2467.1	2080.9	1806.2	1606.2	1442.7	1364.6	1318.7
72.5°	2083.5	1569.4	1240.9	1012.9	853.1	716.3	662.2	658.2
75°	935.5	619.6	427.1	329.1	277.0	240.9	229.8	221.3
77.5°	261.9	193.6	172.7	161.5	150.7	138.2	133.5	134.5
80°	127.4	120.3	115.6	108.4	98.6	88.2	83.5	85.5
82.5°	84.5	83.5	86.5	81.4	67.2	57.1	48.0	43.9
85°	51.4	52.1	53.1	53.4	45.3	31.7	21.6	24.3
87.5°	20.3	23.3	25.4	26.4	24.7	15.2	12.2	12.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)