

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: P270179

Luminaire Tested: **GWC-AF-01-LED-E1-T3-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270179  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-01-LED-E1-T3-7027-800  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4463.8 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - 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

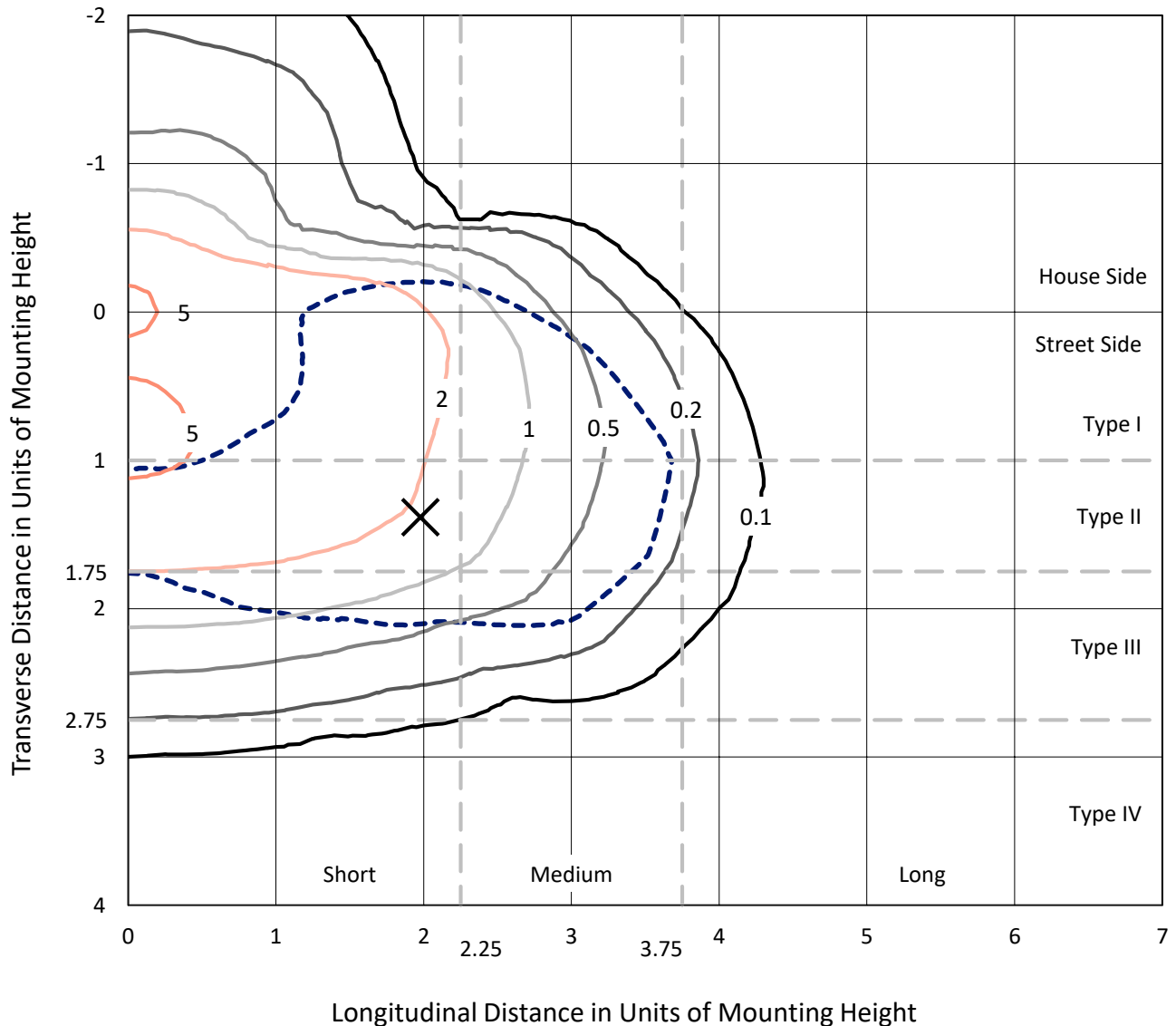


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### Iso-Footcandle Lines of Horizontal Illumination

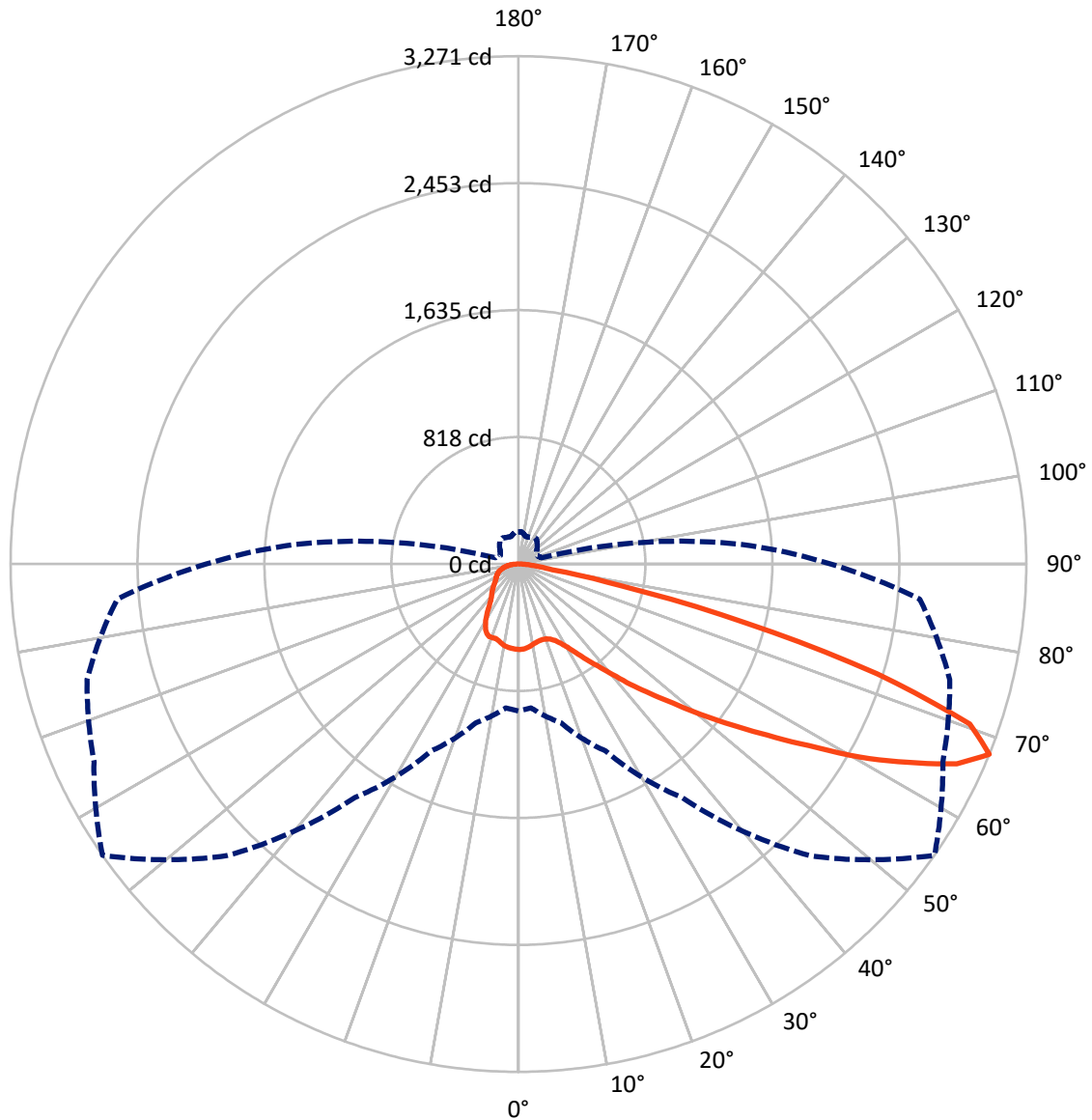
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.7 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	964.3	0.0	964.3
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	3499.5	0.0	3499.5
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	4463.8	0.0	4463.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.4	1.2
10°-20°	145.5	3.3
20°-30°	243.7	5.5
30°-40°	400.8	9.0
40°-50°	674.7	15.1
50°-60°	1061.9	23.8
60°-70°	1267.3	28.4
70°-80°	544.2	12.2
80°-90°	74.2	1.7
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°	4463.8	100.0
0°-180°	4463.8	100.0



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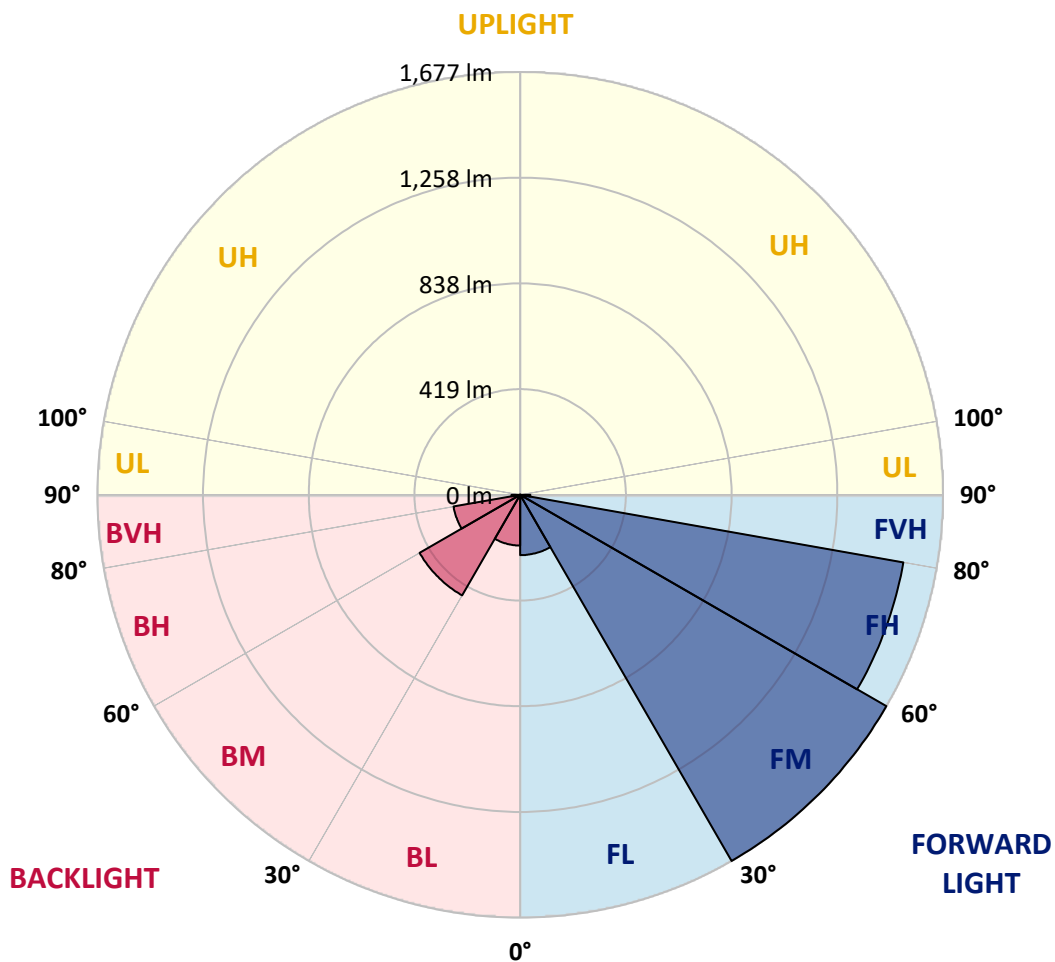
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	239.3	5.4			
FM	(30°-60°)	1676.9	37.6			
FH	(60°-80°)	1543.2	34.6			G1/1800
FVH	(80°-90°)	40.2	0.9			G1/100
BL	(0°-30°)	201.4	4.5	B1/500		
BM	(30°-60°)	460.5	10.3	B1/1000		
BH	(60°-80°)	268.3	6.0	B1/500		G1/500
BVH	(80°-90°)	34.0	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4
2.5°	545.7	545.9	546.3	548.1	549.6	549.1	549.4	548.4	548.2	547.0	548.2
5°	538.9	539.4	539.6	542.4	544.2	544.6	544.0	542.8	541.6	540.3	541.0
7.5°	523.1	524.8	525.0	528.9	531.6	535.3	535.6	535.7	535.1	534.2	535.6
10°	513.1	513.7	513.3	516.2	518.3	522.5	524.8	528.9	530.5	531.0	531.8
12.5°	512.6	512.0	511.5	511.5	510.7	512.6	516.7	522.6	526.8	528.1	529.1
15°	519.4	519.2	517.1	513.8	509.7	508.4	512.0	518.5	523.9	526.8	527.8
17.5°	534.9	533.7	530.2	522.9	514.0	510.5	511.0	516.3	522.6	526.2	527.3
20°	563.3	563.3	556.1	542.2	526.4	518.3	514.4	517.7	523.7	528.7	530.2
22.5°	612.6	613.0	600.6	578.0	551.5	534.0	524.3	523.7	530.8	536.4	538.2
25°	682.2	680.5	663.2	630.9	590.5	561.6	544.8	541.0	547.0	553.3	555.4
27.5°	763.2	757.0	736.5	697.4	645.3	603.0	577.3	571.0	576.7	583.9	586.1
30°	843.4	837.0	812.5	769.8	711.9	658.5	621.4	611.2	619.4	629.5	630.9
32.5°	923.6	923.6	896.5	846.7	783.5	724.7	680.2	668.2	681.8	694.0	696.8
35°	1019.5	1020.0	993.7	933.8	865.8	803.5	754.5	745.8	766.3	774.9	781.5
37.5°	1137.6	1139.9	1106.1	1033.6	959.2	893.6	835.5	823.3	843.9	867.4	889.0
40°	1265.0	1268.0	1230.7	1141.3	1066.9	998.5	935.5	913.8	947.8	992.6	1020.5
42.5°	1386.5	1402.1	1366.1	1274.2	1194.2	1123.3	1059.6	1027.8	1070.5	1138.2	1162.2
45°	1562.2	1573.6	1510.7	1427.4	1352.3	1272.9	1188.4	1155.0	1214.7	1300.0	1305.1
47.5°	1679.3	1670.8	1639.0	1587.2	1539.7	1465.5	1338.3	1301.6	1381.0	1481.5	1453.5
50°	1741.6	1744.1	1739.8	1742.9	1744.7	1698.1	1522.0	1471.8	1566.4	1687.7	1623.6
52.5°	1799.8	1782.5	1796.8	1867.5	1952.9	1935.7	1721.8	1669.4	1765.1	1916.8	1803.4
55°	1798.5	1772.3	1818.6	1943.5	2128.7	2148.4	1946.3	1885.9	1975.4	2162.3	1994.1
57.5°	1734.9	1736.2	1807.6	1971.1	2251.2	2348.6	2206.6	2116.1	2198.3	2411.1	2168.1
60°	1647.4	1659.3	1762.1	1966.5	2349.2	2512.6	2526.3	2364.2	2416.7	2637.2	2312.1
62.5°	1506.2	1518.8	1660.5	1919.5	2334.3	2670.8	2815.1	2645.9	2645.0	2774.3	2354.4
65°	1283.5	1279.8	1428.8	1743.8	2209.6	2787.5	3102.0	2889.3	2817.1	2776.5	2269.4
67.5°	946.5	930.1	1057.9	1328.1	1836.6	2656.6	3270.9	3016.1	2875.7	2593.9	2009.9
70°	491.2	474.8	578.2	775.5	1207.9	2073.5	3084.1	2950.6	2746.1	2174.3	1574.5
72.5°	210.1	207.1	249.2	340.2	584.3	1196.0	2418.1	2553.8	2356.3	1620.1	1082.5
75°	141.3	140.3	156.0	185.4	262.8	485.4	1513.4	1812.8	1723.9	1004.5	608.8
77.5°	110.9	109.8	119.0	133.3	170.3	191.5	671.7	973.3	900.8	437.2	266.4
80°	86.6	85.8	91.6	99.4	122.4	120.7	221.1	387.2	299.7	167.5	129.5
82.5°	68.4	68.4	73.1	73.3	86.9	82.4	115.3	170.6	149.7	97.6	79.3
85°	62.5	62.5	67.6	54.7	56.8	51.9	71.5	101.1	95.0	40.2	34.5
87.5°	31.5	30.6	56.8	48.5	30.8	27.6	34.9	49.0	52.6	22.2	17.2
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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4	550.4
2.5°	547.8	547.6	548.1	548.2	550.0	552.4	553.4	555.0	555.8	555.4
5°	541.4	541.8	543.6	544.8	547.8	551.6	553.9	555.6	557.0	556.5
7.5°	536.0	537.0	539.6	540.7	542.4	543.6	543.4	544.0	545.2	543.7
10°	533.0	534.2	536.2	534.8	530.5	524.8	519.4	516.5	517.5	516.3
12.5°	529.9	531.6	530.2	523.1	511.7	504.0	499.9	500.4	502.3	502.8
15°	528.3	528.9	522.5	509.0	497.4	496.4	498.5	498.0	498.3	498.3
17.5°	528.3	526.4	514.4	501.1	496.1	494.2	487.5	479.1	475.5	474.1
20°	531.0	526.4	511.9	503.1	492.2	475.7	458.0	442.4	435.5	433.6
22.5°	539.4	531.6	519.2	503.9	473.2	445.4	417.4	398.8	386.4	384.2
25°	556.5	547.8	533.7	492.5	443.0	403.3	371.4	350.8	338.3	336.5
27.5°	586.2	580.7	541.4	467.2	403.0	360.5	330.9	314.9	305.8	305.1
30°	631.1	628.3	537.5	429.8	353.7	318.9	304.6	295.4	288.4	288.3
32.5°	702.7	679.9	524.8	384.5	308.5	289.3	283.5	277.9	272.5	272.5
35°	794.7	721.9	500.6	335.6	281.1	272.9	265.5	256.7	249.6	249.2
37.5°	902.9	747.7	457.2	296.4	268.2	261.9	251.2	238.1	225.6	223.4
40°	1012.3	755.5	396.3	272.2	260.0	250.9	237.8	222.3	210.3	209.6
42.5°	1112.6	740.7	331.7	255.7	251.9	239.8	226.0	212.2	202.7	202.5
45°	1196.6	701.9	277.2	239.9	243.3	229.5	217.3	206.2	198.7	197.3
47.5°	1275.8	647.5	239.0	223.4	234.5	223.9	213.6	203.0	196.0	194.9
50°	1367.6	588.6	212.4	207.1	227.0	222.2	216.8	205.7	193.9	192.5
52.5°	1478.8	537.7	191.5	193.0	221.3	224.7	224.4	213.0	192.2	190.6
55°	1602.9	481.2	175.7	181.3	218.8	229.3	226.5	219.9	193.7	191.0
57.5°	1725.3	415.2	164.7	172.5	215.5	229.0	217.1	207.9	196.5	193.0
60°	1816.9	326.7	156.3	164.7	207.9	221.8	207.0	194.8	196.0	193.1
62.5°	1822.9	252.5	146.2	158.0	196.4	214.8	200.3	188.9	198.7	196.2
65°	1715.8	190.8	136.5	150.0	184.2	210.3	193.9	185.6	204.6	201.8
67.5°	1444.6	153.5	128.3	141.8	171.8	200.7	188.0	182.6	209.8	204.9
70°	1042.8	130.9	120.4	132.0	160.8	189.9	182.8	177.2	195.8	188.0
72.5°	642.1	113.4	111.2	118.8	152.4	178.8	175.1	167.1	176.3	170.0
75°	320.5	98.4	101.1	105.9	140.6	165.9	162.1	154.1	155.4	154.1
77.5°	153.5	84.1	89.2	93.0	125.3	151.5	147.5	139.2	137.8	138.0
80°	97.2	70.2	75.3	77.9	111.8	134.7	130.7	122.4	139.6	129.5
82.5°	60.7	57.1	58.4	63.2	97.5	117.3	111.8	104.6	125.9	99.6
85°	33.6	39.9	41.6	45.8	75.0	98.1	92.7	83.5	74.7	73.5
87.5°	20.0	23.7	24.3	27.4	50.5	71.0	62.7	59.5	49.3	49.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)