

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: P200187

Luminaire Tested: **GWC-AF-01-LED-E1-T3-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200187  
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-T3-600  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4285.1 lumens  
Efficiency: N/A  
Efficacy: 126.0 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

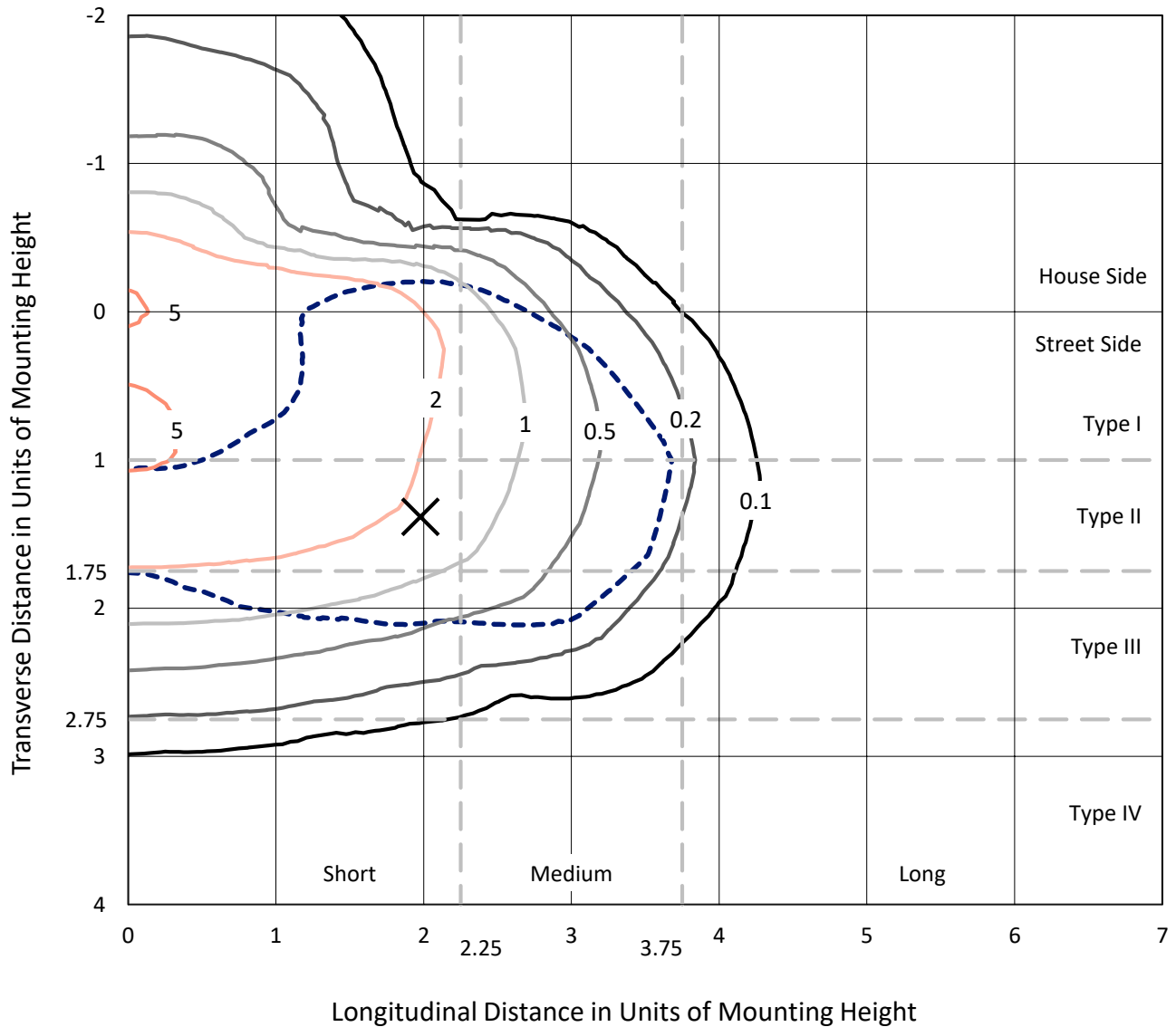
Input Watts (W): 34  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

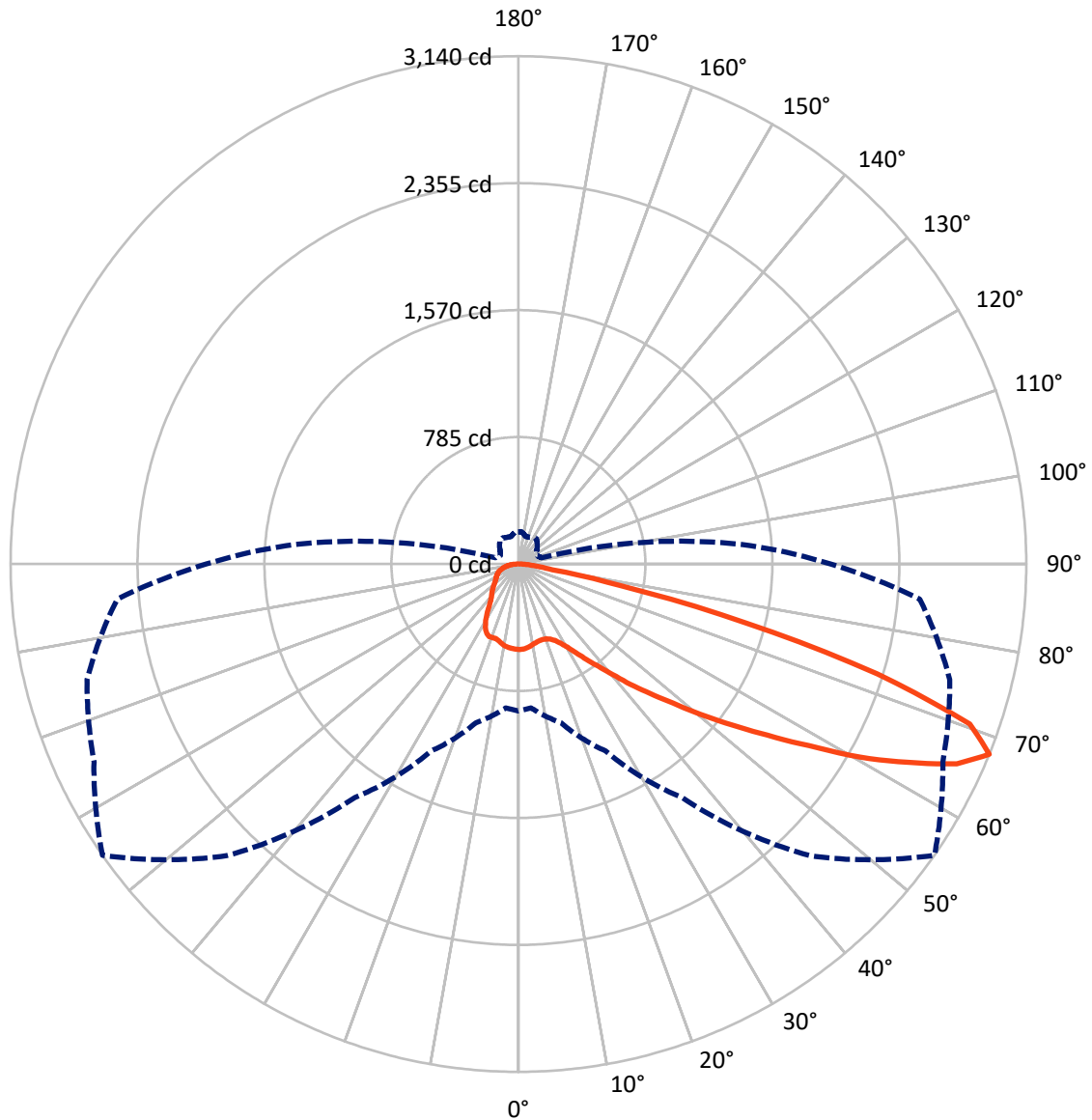
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.4 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	925.7	0.0	925.7
	% Fixture	21.6	0.0	21.6
<b>Street Side</b>	Lumens	3359.5	0.0	3359.5
	% Fixture	78.4	0.0	78.4
<b>Total</b>	Lumens	4285.1	0.0	4285.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.3	1.2
10°-20°	139.7	3.3
20°-30°	234.0	5.5
30°-40°	384.8	9.0
40°-50°	647.7	15.1
50°-60°	1019.4	23.8
60°-70°	1216.6	28.4
70°-80°	522.4	12.2
80°-90°	71.2	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°	4285.1	100.0
0°-180°	4285.1	100.0



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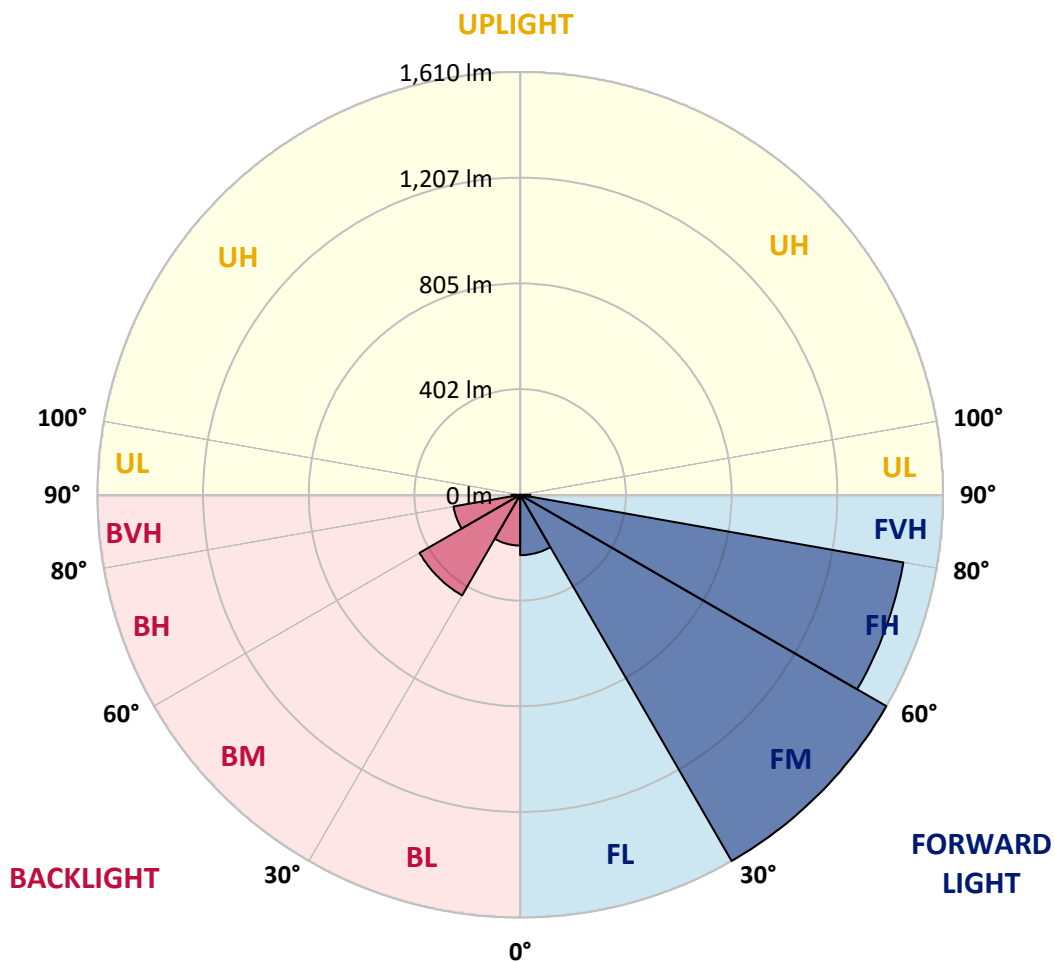
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	229.7	5.4			
FM	(30°-60°)	1609.8	37.6			
FH	(60°-80°)	1481.4	34.6			G1/1800
FVH	(80°-90°)	38.6	0.9			G1/100
BL	(0°-30°)	193.3	4.5	B1/500		
BM	(30°-60°)	442.1	10.3	B1/1000		
BH	(60°-80°)	257.6	6.0	B1/500		G1/500
BVH	(80°-90°)	32.7	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°	528.4	528.4	528.4	528.4	528.4	528.4	528.4	528.4	528.4	528.4	528.4
2.5°	523.9	524.1	524.5	526.1	527.5	527.1	527.3	526.5	526.3	525.1	526.3
5°	517.2	517.8	518.0	520.8	522.4	522.8	522.2	521.2	520.0	518.6	519.2
7.5°	502.2	503.8	504.0	507.7	510.4	513.9	514.1	514.3	513.7	512.9	514.1
10°	492.6	493.1	492.8	495.5	497.6	501.5	503.8	507.7	509.3	509.7	510.6
12.5°	491.9	491.5	490.9	490.9	490.3	491.9	496.1	501.7	505.6	506.9	507.9
15°	498.6	498.4	496.3	493.3	489.3	488.0	491.5	497.8	503.0	505.6	506.7
17.5°	513.5	512.3	508.9	502.0	493.5	490.1	490.5	495.7	501.7	505.2	506.3
20°	540.8	540.8	533.8	520.6	505.4	497.6	493.9	496.9	502.8	507.5	508.9
22.5°	588.0	588.4	576.6	554.8	529.5	512.7	503.4	502.8	509.5	515.0	516.6
25°	654.9	653.3	636.7	605.6	566.9	539.2	523.0	519.2	525.1	531.1	533.2
27.5°	732.6	726.7	707.1	669.5	619.5	578.9	554.0	548.1	553.6	560.5	562.5
30°	809.7	803.4	780.1	739.1	683.4	632.1	596.5	586.8	594.6	604.4	605.6
32.5°	886.7	886.7	860.6	812.8	752.2	695.6	653.1	641.4	654.5	666.2	668.9
35°	978.8	979.2	953.9	896.4	831.2	771.4	724.5	716.0	735.6	743.9	750.2
37.5°	1092.0	1094.3	1061.8	992.3	920.9	857.9	802.0	790.4	810.1	832.7	853.3
40°	1214.3	1217.2	1181.4	1095.7	1024.3	958.5	898.0	877.2	909.8	952.9	979.6
42.5°	1331.1	1346.0	1311.4	1223.2	1146.4	1078.3	1017.1	986.6	1027.7	1092.6	1115.8
45°	1499.7	1510.5	1450.2	1370.3	1298.1	1222.0	1140.8	1108.8	1166.1	1248.1	1252.8
47.5°	1612.2	1604.1	1573.4	1523.8	1478.0	1406.8	1284.7	1249.5	1325.6	1422.1	1395.4
50°	1671.9	1674.5	1670.3	1673.1	1674.9	1630.2	1461.1	1412.8	1503.6	1620.1	1558.8
52.5°	1727.9	1711.3	1724.9	1792.8	1874.8	1858.2	1652.9	1602.6	1694.5	1840.0	1731.3
55°	1726.5	1701.4	1745.9	1865.7	2043.4	2062.5	1868.3	1810.4	1896.3	2075.8	1914.4
57.5°	1665.6	1666.8	1735.2	1892.2	2161.0	2254.6	2118.4	2031.5	2110.3	2314.6	2081.3
60°	1581.5	1592.8	1691.6	1887.9	2255.2	2412.1	2425.1	2269.7	2320.0	2531.7	2219.6
62.5°	1445.9	1457.9	1594.1	1842.6	2240.9	2563.8	2702.4	2540.0	2539.2	2663.4	2260.1
65°	1232.1	1228.6	1371.6	1674.0	2121.1	2675.9	2977.9	2773.6	2704.3	2665.4	2178.6
67.5°	908.6	892.9	1015.6	1275.0	1763.1	2550.3	3140.0	2895.4	2760.6	2490.1	1929.4
70°	471.5	455.7	555.2	744.5	1159.5	1990.5	2960.5	2832.4	2636.2	2087.3	1511.5
72.5°	201.6	198.9	239.3	326.6	560.9	1148.1	2321.4	2451.6	2262.1	1555.2	1039.2
75°	135.5	134.7	149.9	178.0	252.3	465.9	1452.8	1740.2	1654.9	964.3	584.5
77.5°	106.4	105.4	114.3	127.9	163.5	183.8	644.8	934.3	864.7	419.7	255.8
80°	83.2	82.3	88.0	95.4	117.5	115.9	212.2	371.7	287.7	160.8	124.4
82.5°	65.6	65.6	70.2	70.4	83.4	79.1	110.7	163.7	143.6	93.8	76.2
85°	60.0	60.0	64.8	52.6	54.4	49.9	68.7	97.1	91.0	38.5	33.1
87.5°	30.2	29.4	54.4	46.5	29.6	26.5	33.6	47.0	50.5	21.3	16.6
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°	528.4	528.4	528.4	528.4	528.4	528.4	528.4	528.4	528.4	528.4
2.5°	525.9	525.7	526.1	526.3	527.9	530.3	531.3	532.8	533.6	533.2
5°	519.8	520.2	521.8	523.0	525.9	529.7	531.7	533.4	534.8	534.2
7.5°	514.5	515.6	518.0	519.0	520.8	521.8	521.6	522.2	523.4	522.0
10°	511.7	512.9	514.7	513.3	509.3	503.8	498.6	495.9	496.7	495.7
12.5°	508.7	510.4	508.9	502.2	491.1	483.9	480.0	480.4	482.2	482.6
15°	507.1	507.7	501.5	488.7	477.5	476.5	478.5	478.1	478.3	478.3
17.5°	507.1	505.4	493.9	481.0	476.3	474.3	468.0	459.9	456.3	455.1
20°	509.7	505.4	491.3	482.8	472.5	456.5	439.6	424.7	418.1	416.2
22.5°	517.8	510.4	498.4	483.7	454.3	427.6	400.7	382.9	370.9	368.9
25°	534.2	525.9	512.3	472.7	425.3	387.3	356.6	336.8	324.8	323.0
27.5°	562.7	557.4	519.8	448.5	386.9	346.1	317.7	302.4	293.5	292.9
30°	605.8	603.1	516.0	412.7	339.4	306.1	292.5	283.6	276.9	276.7
32.5°	674.5	652.8	503.8	369.1	296.1	277.7	272.2	266.8	261.6	261.6
35°	762.9	692.9	480.6	322.2	269.9	262.1	255.0	246.5	239.7	239.3
37.5°	866.8	717.8	438.9	284.6	257.5	251.4	241.1	228.5	216.5	214.4
40°	971.7	725.3	380.4	261.4	249.6	240.9	228.3	213.4	201.8	201.2
42.5°	1068.0	711.0	318.3	245.5	241.7	230.2	216.9	203.7	194.6	194.4
45°	1148.7	673.9	266.2	230.4	233.4	220.4	208.6	197.8	190.8	189.3
47.5°	1224.7	621.5	229.6	214.4	225.2	215.0	205.1	195.0	188.1	187.1
50°	1312.9	565.1	203.9	198.9	218.0	213.2	208.0	197.4	186.1	184.8
52.5°	1419.7	516.2	183.8	185.3	212.4	215.6	215.4	204.5	184.6	183.0
55°	1538.8	462.0	168.7	174.1	210.1	220.2	217.3	211.1	185.9	183.4
57.5°	1656.2	398.6	158.1	165.6	206.7	219.8	208.4	199.5	188.7	185.3
60°	1744.1	313.5	150.1	158.1	199.5	213.0	198.7	186.9	188.1	185.5
62.5°	1750.0	242.3	140.3	151.7	188.5	206.1	192.3	181.3	190.8	188.3
65°	1647.1	183.2	131.0	144.0	176.8	201.8	186.1	178.2	196.4	193.7
67.5°	1386.7	147.4	123.2	136.2	165.0	192.7	180.4	175.3	201.4	196.6
70°	1001.2	125.6	115.5	126.6	154.4	182.4	175.5	170.1	187.9	180.4
72.5°	616.3	108.8	106.8	114.1	146.3	171.5	168.1	160.4	169.3	163.3
75°	307.8	94.4	97.1	101.6	134.9	159.4	155.7	148.0	149.2	148.0
77.5°	147.4	80.7	85.7	89.2	120.3	145.5	141.6	133.7	132.3	132.5
80°	93.4	67.5	72.2	74.7	107.4	129.4	125.4	117.5	134.1	124.4
82.5°	58.4	54.8	56.1	60.7	93.6	112.6	107.4	100.4	120.9	95.6
85°	32.3	38.3	39.9	43.9	72.0	94.2	89.0	80.1	71.8	70.6
87.5°	19.2	22.8	23.4	26.3	48.4	68.1	60.3	57.1	47.4	47.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)