

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: P199991

Luminaire Tested: **GWC-AF-01-LED-E1-SL4-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P199991  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
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-SL4-7030  
Description: GALLEON WALL LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5842.1 lumens  
Efficiency: N/A  
Efficacy: 99.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

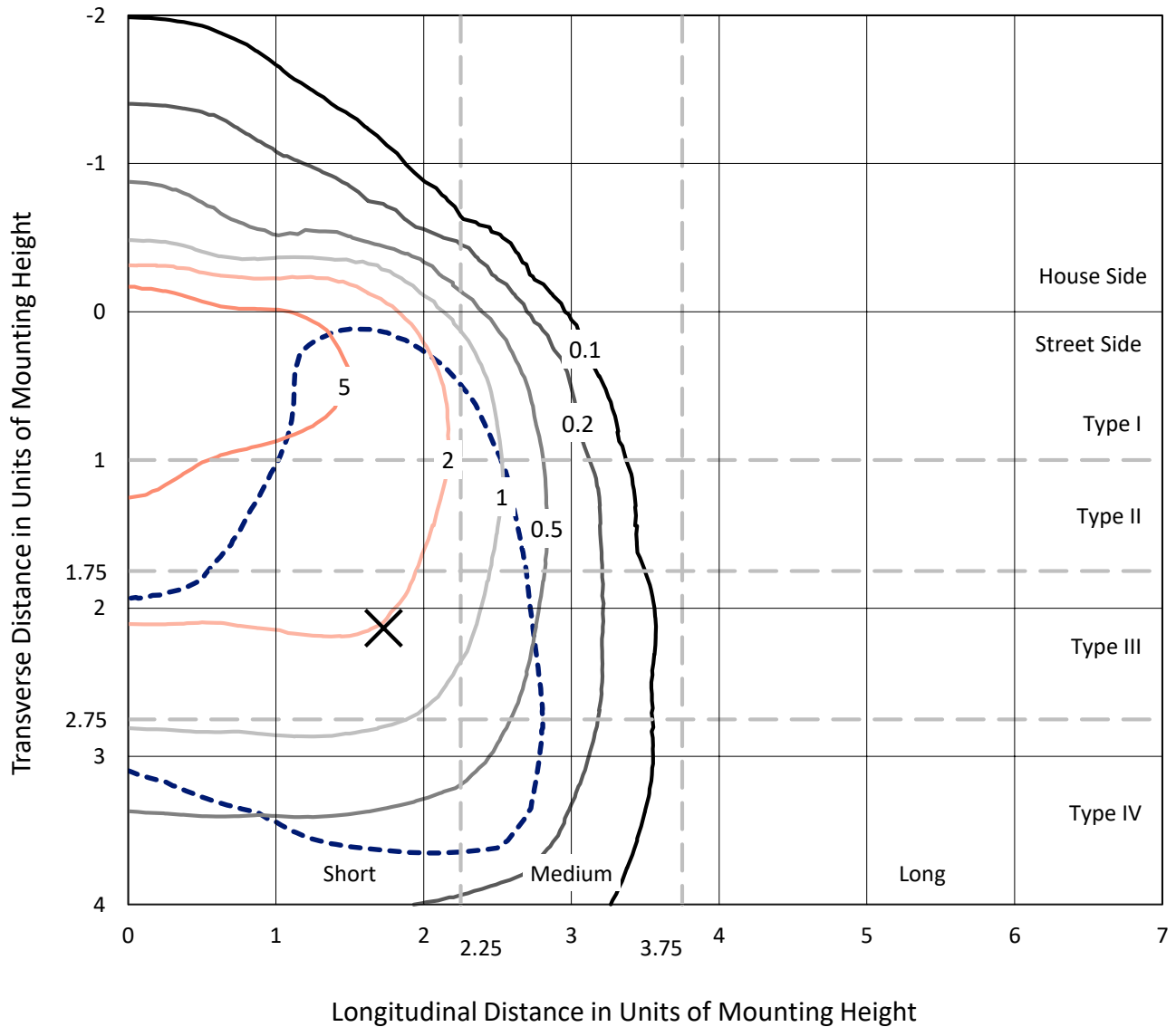
Input Watts (W): 59  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

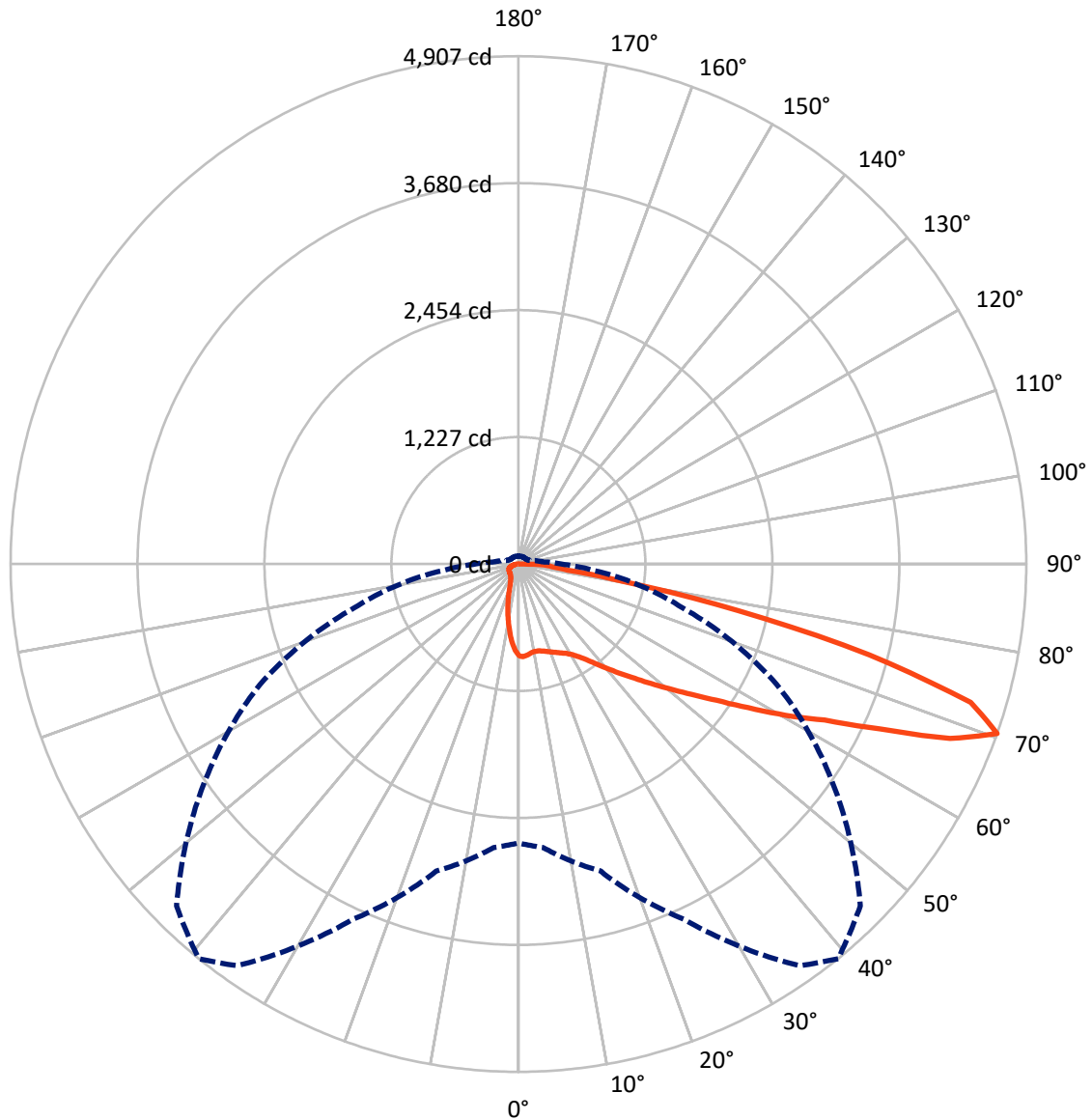
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.9 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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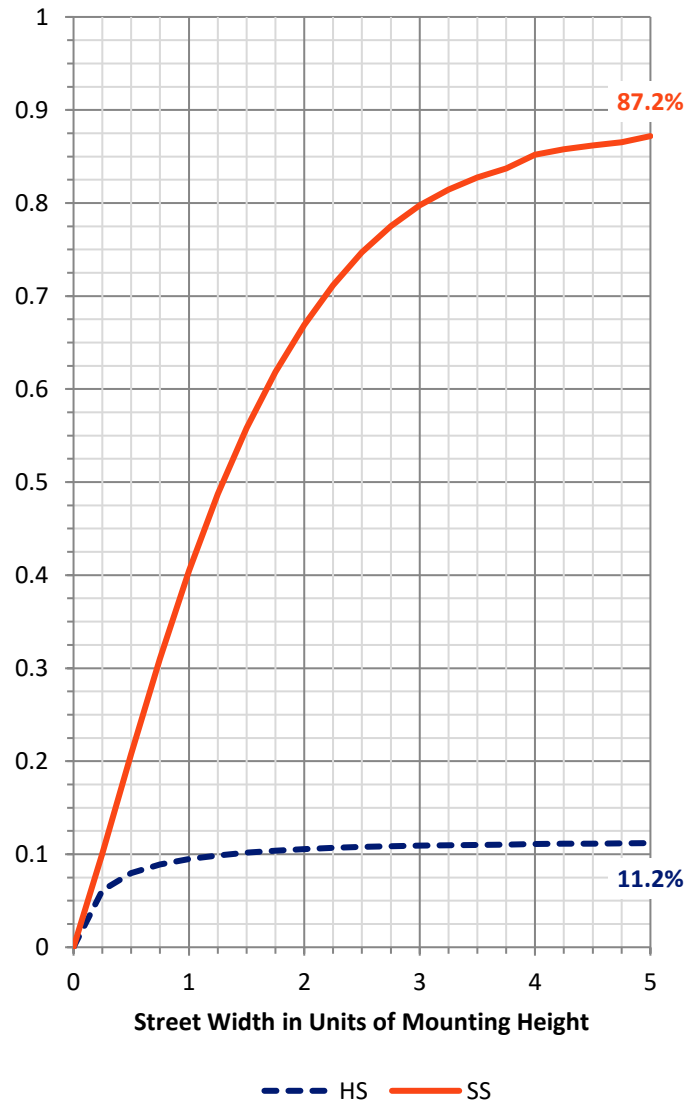
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	664.4	0.0	664.4
	% Fixture	11.4	0.0	11.4
<b>Street Side</b>	Lumens	5177.7	0.0	5177.7
	% Fixture	88.6	0.0	88.6
<b>Total</b>	Lumens	5842.1	0.0	5842.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.1	1.3
10°-20°	190.3	3.3
20°-30°	296.2	5.1
30°-40°	461.5	7.9
40°-50°	774.7	13.3
50°-60°	1230.8	21.1
60°-70°	1641.7	28.1
70°-80°	991.4	17.0
80°-90°	179.4	3.1
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°	5842.1	100.0
0°-180°	5842.1	100.0



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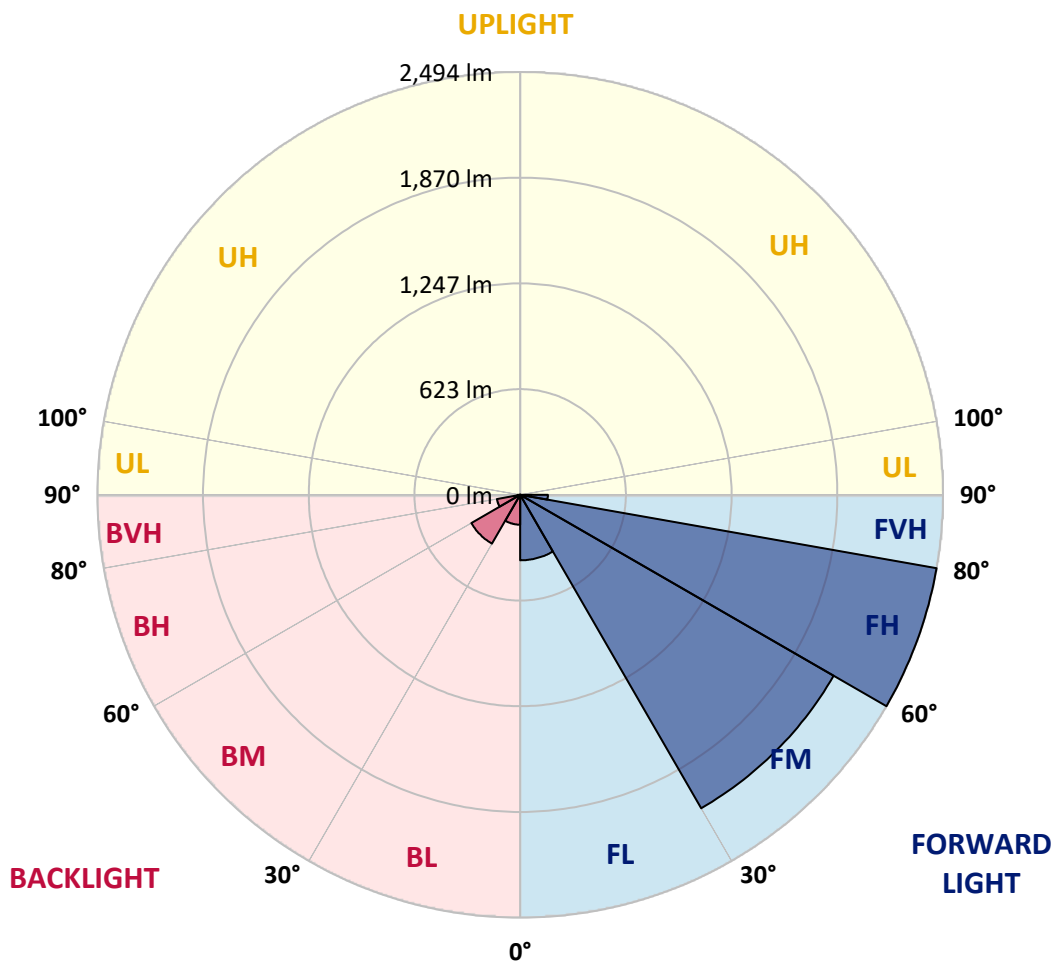
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	386.3	6.6			
FM	(30°-60°)	2134.5	36.5			
FH	(60°-80°)	2493.6	42.7			G2/5000
FVH	(80°-90°)	163.3	2.8			G2/225
BL	(0°-30°)	176.3	3.0	B1/500		
BM	(30°-60°)	332.5	5.7	B1/1000		
BH	(60°-80°)	139.5	2.4	B1/500		G1/500
BVH	(80°-90°)	16.2	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	886.9	886.9	886.9	886.9	886.9	886.9	886.9	886.9	886.9	886.9	886.9
2.5°	904.1	903.9	901.5	899.6	898.2	897.6	898.7	894.4	890.5	885.8	880.6
5°	897.3	897.0	893.2	889.6	886.0	884.9	884.6	876.5	871.8	864.7	855.2
7.5°	889.9	888.4	883.4	877.5	871.2	868.2	865.3	854.9	849.5	842.4	831.4
10°	882.2	880.4	875.6	869.7	863.8	859.4	854.3	844.1	838.4	833.2	820.4
12.5°	874.2	872.7	871.5	868.8	864.7	860.8	856.9	848.3	842.4	836.2	821.3
15°	873.0	872.3	875.0	876.8	874.4	872.1	867.9	860.5	854.3	848.0	828.7
17.5°	882.5	882.2	889.1	893.7	892.5	888.4	882.9	874.4	869.3	864.0	839.9
20°	903.2	904.7	913.1	919.3	913.4	907.4	898.2	886.6	883.9	881.6	851.5
22.5°	942.5	944.0	949.9	952.3	936.8	928.1	915.5	900.7	898.7	900.7	865.6
25°	1003.6	1002.1	1001.3	992.4	964.1	950.8	934.5	919.0	919.9	927.9	885.1
27.5°	1084.7	1076.8	1064.3	1037.5	992.6	977.8	957.8	943.7	949.3	964.8	914.5
30°	1168.7	1159.9	1131.1	1087.4	1030.1	1013.7	991.5	975.4	990.3	1014.7	953.8
32.5°	1246.6	1245.4	1203.3	1147.1	1081.7	1067.5	1045.3	1027.1	1051.2	1088.3	1012.7
35°	1331.6	1334.3	1283.8	1216.3	1151.6	1136.8	1120.7	1107.1	1139.1	1190.2	1097.8
37.5°	1422.4	1427.8	1368.2	1292.1	1231.2	1224.9	1215.4	1209.5	1259.1	1329.8	1216.9
40°	1544.0	1538.6	1455.8	1377.6	1328.9	1328.6	1325.7	1332.8	1415.4	1512.1	1369.9
42.5°	1674.1	1658.3	1548.6	1469.4	1436.1	1446.3	1452.2	1481.2	1603.4	1733.7	1556.4
45°	1814.2	1778.8	1645.2	1566.6	1555.2	1576.6	1596.9	1660.0	1824.6	1985.9	1760.8
47.5°	1926.2	1892.1	1745.0	1668.4	1693.1	1725.4	1764.3	1864.4	2072.3	2246.4	1962.4
50°	2014.4	1992.2	1845.7	1787.2	1844.9	1894.8	1958.3	2095.8	2330.2	2500.1	2149.2
52.5°	2100.0	2083.3	1947.3	1909.0	2023.1	2092.0	2178.4	2344.1	2594.5	2749.6	2306.5
55°	2177.2	2165.3	2056.6	2060.7	2232.7	2322.5	2431.1	2626.9	2882.6	2972.1	2439.4
57.5°	2264.2	2249.1	2181.4	2251.2	2502.1	2618.6	2760.0	2944.7	3152.9	3169.8	2540.8
60°	2351.8	2338.8	2319.8	2471.0	2844.3	2966.7	3100.7	3252.7	3427.1	3323.4	2534.9
62.5°	2427.8	2429.4	2462.9	2701.8	3179.3	3321.1	3484.4	3634.7	3675.2	3350.1	2347.4
65°	2556.7	2580.2	2680.3	3028.4	3651.0	3840.6	4041.1	4017.0	3743.8	3100.3	1945.5
67.5°	2710.0	2751.3	2954.3	3463.9	4247.1	4498.8	4576.4	4103.4	3469.0	2520.3	1386.8
70°	2694.7	2751.3	3072.5	3788.6	4738.5	4907.2	4671.9	3713.7	2754.7	1646.4	736.6
72.5°	2392.9	2473.9	2831.6	3639.8	4583.8	4568.9	4055.9	2768.6	1636.6	661.1	287.8
75°	1823.7	1905.7	2213.5	2875.4	3622.8	3498.1	2877.9	1529.4	621.0	262.6	181.5
77.5°	1049.1	1112.7	1350.3	1763.5	2298.4	2170.3	1601.8	680.1	302.3	183.0	141.7
80°	585.7	621.0	765.5	894.7	1126.4	1032.5	716.7	422.7	225.7	132.8	109.3
82.5°	463.0	494.5	619.0	564.4	514.5	474.6	411.7	376.3	180.3	83.8	65.3
85°	404.6	434.6	524.0	444.3	351.4	322.4	334.5	370.4	140.2	50.5	55.8
87.5°	374.9	414.9	467.0	342.4	273.5	242.3	308.6	406.0	45.2	31.4	22.6
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):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	886.9	886.9	886.9	886.9	886.9	886.9	886.9	886.9	886.9	886.9	886.9
2.5°	876.3	871.5	863.8	856.9	846.2	840.5	834.3	830.0	826.3	823.4	828.0
5°	849.2	840.3	824.0	806.5	785.7	769.3	755.6	742.9	734.0	728.0	732.1
7.5°	823.7	809.1	783.6	751.8	716.0	685.8	660.9	638.9	623.8	613.9	617.9
10°	809.1	790.9	751.4	701.6	649.0	601.8	562.5	528.7	505.3	491.8	494.0
12.5°	805.6	782.1	727.4	658.9	586.9	521.2	466.0	419.1	386.1	368.9	369.6
15°	808.2	778.3	704.8	617.9	526.9	444.0	375.2	318.2	279.8	260.1	259.9
17.5°	812.7	775.2	681.1	573.6	466.0	369.9	292.9	237.0	203.1	187.4	186.3
20°	817.4	770.5	654.4	525.7	402.7	300.9	229.3	185.6	164.2	155.7	155.0
22.5°	824.3	766.4	626.7	475.3	340.7	245.1	188.6	159.2	147.9	143.4	142.9
25°	835.3	764.3	597.3	422.7	284.8	205.0	164.2	146.2	139.7	136.7	136.3
27.5°	853.7	767.2	569.7	371.6	239.4	177.9	150.6	139.7	134.8	132.2	131.8
30°	877.5	776.4	540.7	323.2	204.1	159.5	142.2	135.2	131.3	128.6	128.6
32.5°	916.9	791.9	510.0	281.3	178.8	146.7	136.0	131.3	128.1	125.9	125.6
35°	975.1	821.0	481.5	246.5	160.7	137.5	130.7	127.2	124.8	123.6	123.6
37.5°	1059.9	867.0	456.2	221.6	149.6	131.3	125.6	122.9	121.5	121.5	121.5
40°	1173.6	930.6	435.7	205.0	143.4	126.8	121.9	119.7	118.8	119.1	119.1
42.5°	1314.1	1013.2	422.1	193.4	140.5	124.1	119.1	117.4	116.5	116.2	116.5
45°	1474.1	1107.1	420.5	184.7	137.5	122.4	117.4	115.6	113.7	112.5	112.5
47.5°	1629.8	1202.4	432.7	181.8	134.3	120.3	115.9	114.0	111.3	108.7	108.7
50°	1767.3	1283.5	449.0	183.0	133.1	117.4	113.4	112.5	108.3	105.4	105.1
52.5°	1876.6	1345.8	462.5	186.5	134.3	115.3	110.5	110.8	106.3	103.0	102.8
55°	1964.3	1386.8	458.9	190.1	136.9	114.0	107.8	108.3	104.9	101.6	101.6
57.5°	2002.5	1371.6	419.4	187.2	139.0	114.4	105.8	108.1	105.1	102.1	102.1
60°	1920.2	1237.2	345.5	174.0	136.3	113.4	104.9	109.3	109.0	106.1	105.8
62.5°	1671.3	996.2	267.9	154.7	127.2	109.0	102.4	109.0	112.3	111.3	111.1
65°	1288.1	709.6	204.7	134.0	114.6	101.6	96.2	102.1	106.6	107.8	107.5
67.5°	836.2	434.9	157.8	114.4	100.7	93.0	88.2	90.9	91.8	91.8	91.2
70°	411.1	234.1	125.6	96.2	86.5	83.8	81.1	79.6	78.1	76.9	76.9
72.5°	202.9	153.0	103.4	81.4	74.6	73.3	72.7	71.0	69.8	68.3	67.7
75°	150.0	124.4	88.0	68.7	64.1	63.0	64.1	62.8	62.4	61.1	60.6
77.5°	123.3	106.1	75.7	58.8	54.9	52.9	54.6	54.9	55.2	53.4	52.9
80°	100.1	89.7	63.3	48.7	45.2	43.7	44.9	47.2	47.8	45.2	43.9
82.5°	72.2	73.3	51.2	38.0	35.1	33.9	36.3	39.3	39.8	35.9	35.1
85°	60.6	61.1	39.3	27.0	24.0	22.3	26.1	29.1	31.1	27.4	26.4
87.5°	25.2	35.9	22.6	15.2	13.3	11.6	13.9	15.4	18.7	17.3	16.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)