

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: P270113

Luminaire Tested: **GWC-AF-02-LED-E1-AFL-7027-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P270113  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-AFL-7027-800-HSS  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7017.3 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 86  
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

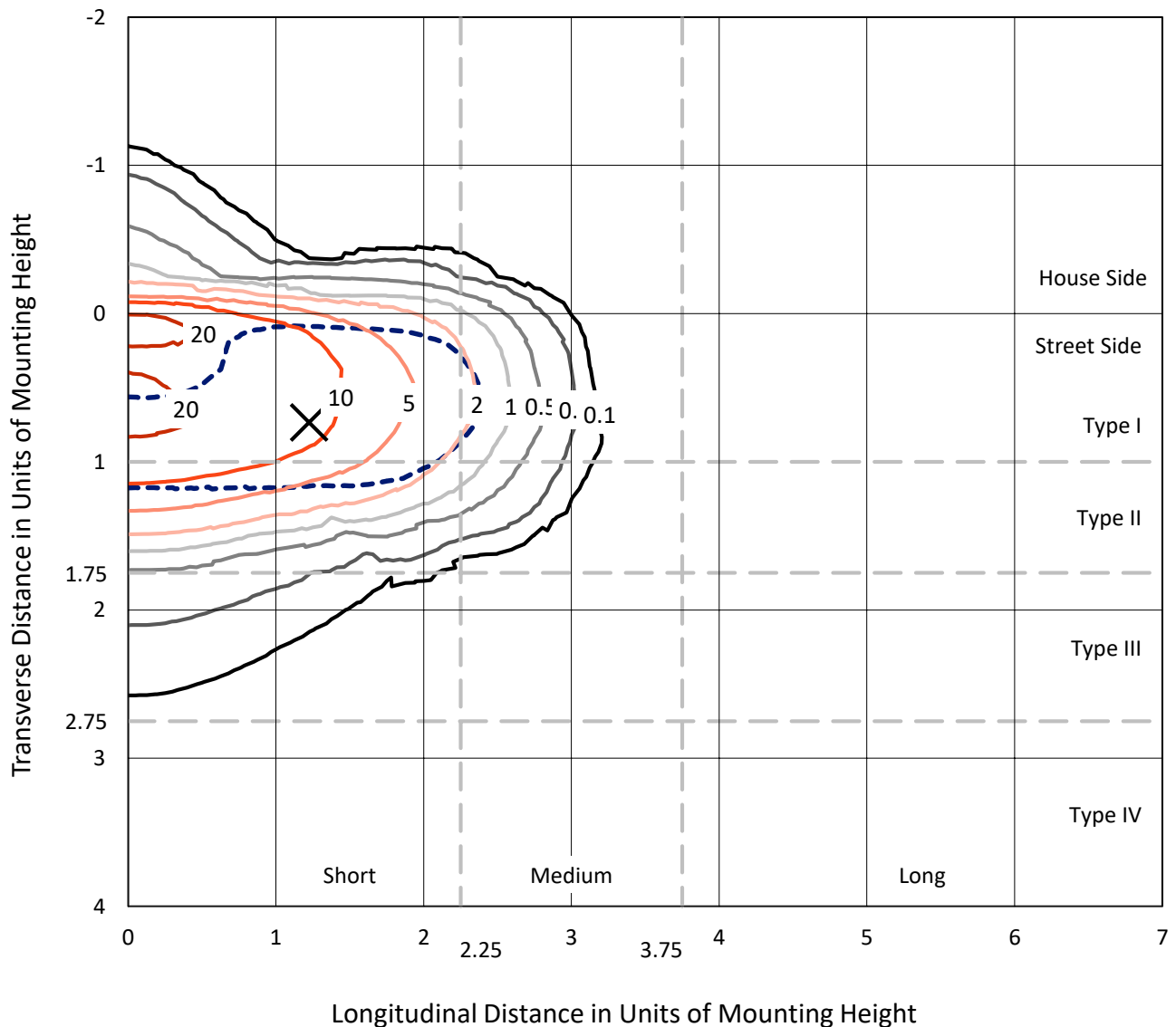


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### Iso-Footcandle Lines of Horizontal Illumination

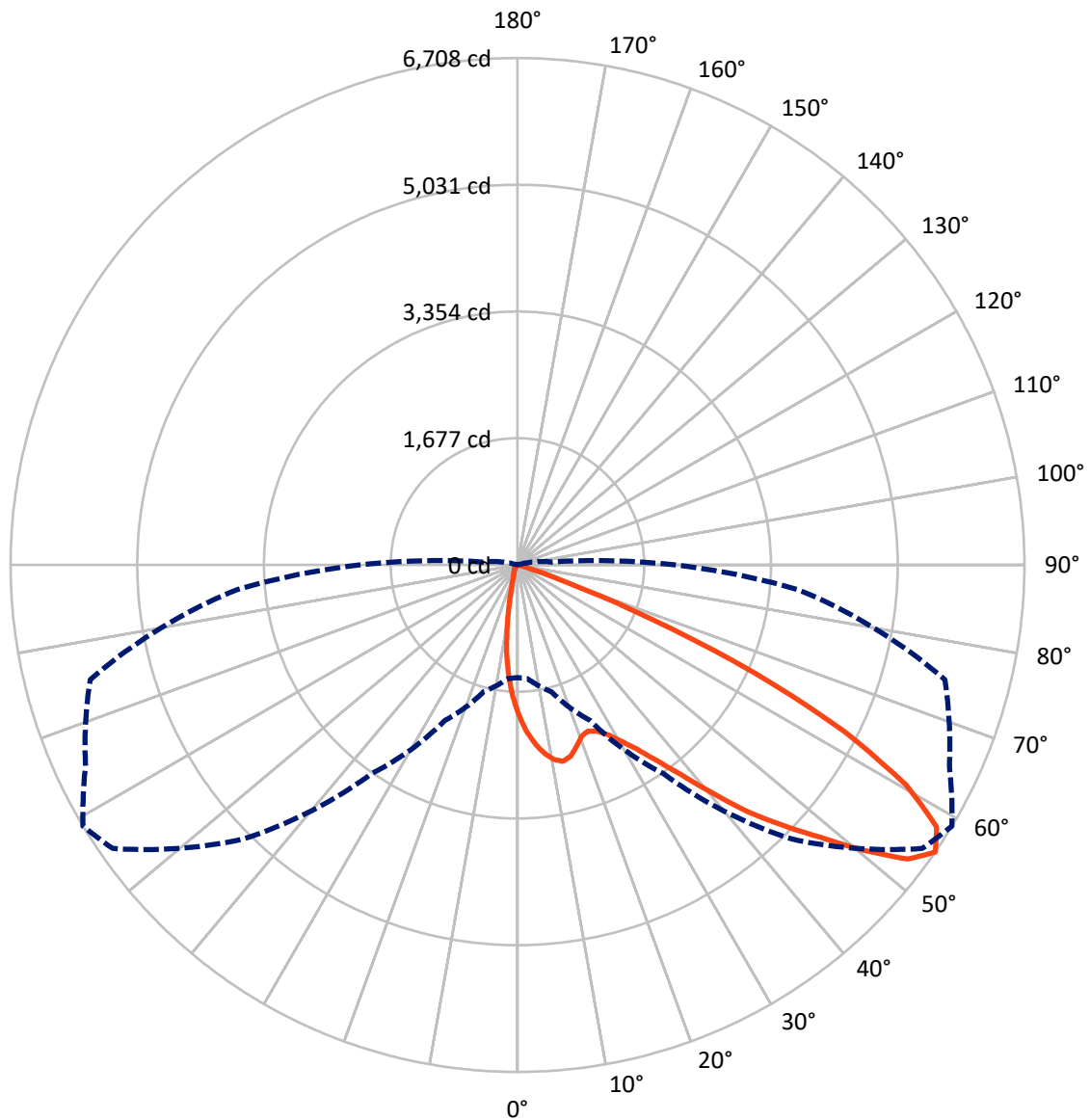
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.6 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	392.0	0.0	392.0
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	6625.4	0.0	6625.4
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	7017.3	0.0	7017.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	165.5	2.4
10°-20°	396.1	5.6
20°-30°	674.1	9.6
30°-40°	1159.3	16.5
40°-50°	1789.8	25.5
50°-60°	1799.3	25.6
60°-70°	922.7	13.1
70°-80°	100.0	1.4
80°-90°	10.5	0.1
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°	7017.3	100.0
0°-180°	7017.3	100.0

**Coefficient of Utilization**



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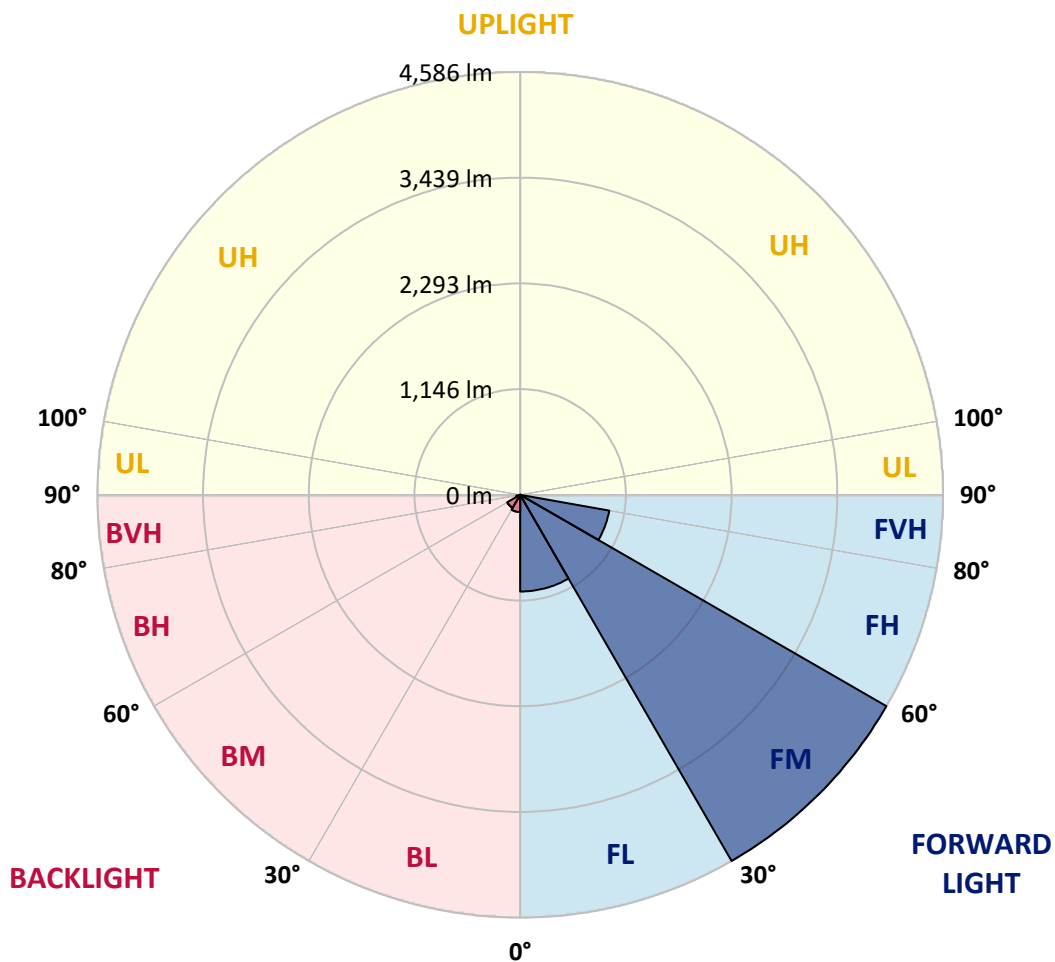
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1048.6	14.9			
FM	(30°-60°)	4585.8	65.3			
FH	(60°-80°)	980.7	14.0			G1/1800
FVH	(80°-90°)	10.2	0.1			G1/100
BL	(0°-30°)	187.1	2.7	B1/500		
BM	(30°-60°)	162.7	2.3	B0/220		
BH	(60°-80°)	42.0	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4
2.5°	2337.3	2312.4	2305.1	2300.0	2277.2	2248.6	2209.8	2191.6	2154.2	2094.2	2020.5
5°	2551.5	2546.8	2530.3	2521.2	2496.7	2456.1	2394.1	2364.2	2305.1	2203.9	2071.9
7.5°	2457.9	2486.4	2509.1	2547.3	2595.2	2593.6	2541.5	2510.4	2444.1	2310.8	2129.1
10°	2096.3	2119.5	2156.7	2243.2	2419.8	2575.4	2636.7	2614.3	2561.3	2408.9	2184.0
12.5°	2025.5	2023.0	2029.5	2054.9	2147.1	2369.2	2620.5	2665.7	2654.9	2498.7	2236.2
15°	2063.1	2060.3	2059.5	2068.2	2090.4	2184.0	2499.3	2628.8	2712.1	2582.0	2280.5
17.5°	2168.8	2156.3	2149.6	2142.6	2136.1	2159.3	2353.5	2525.7	2720.8	2654.9	2317.4
20°	2349.7	2329.0	2304.5	2264.8	2227.5	2215.9	2292.2	2419.8	2689.7	2710.5	2341.4
22.5°	2577.1	2550.6	2508.3	2435.8	2360.1	2316.2	2322.4	2386.2	2643.3	2770.8	2352.6
25°	2832.6	2798.7	2742.3	2641.6	2530.3	2452.5	2411.9	2434.2	2622.2	2841.7	2365.4
27.5°	3106.3	3068.6	2994.9	2857.9	2731.6	2626.3	2543.6	2540.7	2658.3	2934.5	2386.2
30°	3377.5	3371.8	3275.7	3130.8	2963.4	2835.5	2716.2	2700.9	2758.9	3062.8	2427.1
32.5°	3739.6	3696.1	3578.4	3429.4	3236.4	3082.7	2941.5	2905.9	2913.4	3212.3	2490.6
35°	4195.8	4148.3	3982.6	3776.8	3561.1	3379.7	3223.6	3175.1	3156.9	3457.0	2597.4
37.5°	4490.7	4489.9	4385.9	4176.4	3944.9	3744.9	3575.2	3518.4	3481.6	3752.8	2763.0
40°	4498.6	4518.1	4531.7	4529.7	4364.9	4180.6	4029.8	3959.8	3874.0	4147.7	2977.2
42.5°	4257.2	4307.3	4427.7	4632.3	4730.0	4656.7	4529.7	4460.9	4333.3	4570.7	3238.0
45°	3930.8	3965.7	4176.4	4553.2	4928.0	5128.9	5031.9	4909.0	4740.9	5011.7	3472.0
47.5°	3784.6	3790.8	3927.1	4340.9	4942.9	5515.7	5574.5	5374.5	5111.1	5366.9	3655.0
50°	3347.7	3358.9	3547.0	3972.7	4768.2	5698.3	6119.4	5929.7	5514.9	5640.7	3721.7
52.5°	2523.2	2539.0	2777.5	3367.6	4287.8	5620.4	6509.6	6463.6	5957.1	5774.5	3725.5
55°	1488.8	1509.5	1737.2	2266.9	3372.6	5125.2	6538.6	6707.6	6306.2	5853.6	3719.6
57.5°	695.3	709.8	840.3	1167.9	2097.5	4050.5	6102.1	6540.2	6498.8	5895.4	3760.6
60°	369.5	373.5	405.0	505.7	948.0	2568.3	5250.2	5905.7	6323.3	5953.4	3810.8
62.5°	282.4	283.7	282.1	294.0	398.4	1140.0	3968.5	4855.1	5616.3	5909.9	3755.3
65°	244.8	246.8	235.3	232.3	255.5	406.7	2357.6	3460.8	4413.3	5323.1	3377.2
67.5°	219.5	220.3	206.2	194.2	198.3	219.9	930.1	1894.6	2921.2	3901.9	2447.8
70°	202.1	201.3	185.9	166.9	161.5	150.3	295.7	694.5	1396.1	1978.7	1138.4
72.5°	178.9	179.3	171.8	147.1	134.2	105.2	137.1	202.5	416.6	539.2	266.7
75°	158.6	156.5	147.4	131.7	110.6	69.2	67.9	90.3	128.5	127.6	57.6
77.5°	114.7	112.6	115.5	108.1	84.9	44.7	34.0	43.5	52.2	50.6	16.1
80°	84.1	82.8	74.6	89.8	75.0	30.7	21.1	23.2	26.9	22.7	5.0
82.5°	57.6	57.1	52.6	49.7	42.7	18.6	13.2	14.5	17.3	12.8	2.5
85°	9.1	10.3	38.1	30.2	25.2	8.3	9.1	10.0	11.6	7.0	0.9
87.5°	0.0	0.0	17.9	15.7	5.0	3.3	5.4	5.7	5.7	3.8	0.0
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°	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4	1975.4
2.5°	1982.7	1941.3	1864.8	1785.7	1712.4	1625.0	1564.9	1519.8	1467.7	1453.5	1484.2
5°	1996.5	1918.2	1753.4	1574.0	1405.5	1218.8	1075.9	962.8	860.6	825.7	857.3
7.5°	2018.0	1901.6	1632.9	1337.6	1044.5	752.9	553.3	422.0	338.4	313.5	326.7
10°	2039.6	1877.5	1493.3	1057.7	656.8	366.4	238.5	190.4	172.7	169.0	171.0
12.5°	2057.3	1845.4	1323.1	752.0	351.2	196.3	156.1	148.3	145.8	145.8	146.6
15°	2068.2	1796.4	1121.4	478.3	202.1	148.3	136.3	133.8	133.8	134.2	135.0
17.5°	2066.9	1734.3	900.6	289.4	151.2	131.3	124.2	122.2	121.7	122.5	123.0
20°	2051.5	1653.2	679.1	191.0	131.7	119.7	112.6	109.0	108.5	109.3	110.2
22.5°	2022.6	1552.9	485.8	147.1	118.8	108.5	99.8	96.5	96.5	97.4	98.1
25°	1987.4	1430.4	332.1	124.7	107.3	96.5	88.2	85.2	86.1	88.2	88.7
27.5°	1943.5	1292.5	225.7	106.8	93.2	84.5	78.2	76.3	78.2	81.1	82.0
30°	1905.8	1148.8	161.2	92.3	79.1	72.9	69.2	69.2	72.0	77.4	78.6
32.5°	1876.8	1009.6	124.2	81.7	68.7	63.4	61.3	63.4	67.9	73.3	74.6
35°	1873.1	894.9	105.2	72.9	61.3	55.9	55.1	58.7	63.4	67.6	68.3
37.5°	1901.6	788.9	94.9	65.8	54.7	49.7	48.8	53.4	58.0	62.9	64.1
40°	1956.0	705.7	87.4	59.2	49.3	43.9	42.2	45.5	51.8	58.4	60.0
42.5°	2026.3	636.9	79.1	52.6	43.9	36.5	34.3	38.1	44.7	51.8	53.8
45°	2093.3	577.6	70.0	45.2	36.8	28.2	27.3	32.3	35.6	42.7	44.3
47.5°	2130.2	525.5	62.2	36.8	28.6	22.7	22.7	24.0	27.3	35.6	37.3
50°	2117.8	483.6	53.8	27.3	19.9	17.3	17.3	17.0	21.9	28.6	29.8
52.5°	2093.0	459.7	46.4	21.1	13.7	12.5	11.2	12.5	15.4	18.2	18.6
55°	2089.3	455.5	38.9	17.0	9.5	8.3	6.2	6.2	6.2	5.7	5.0
57.5°	2118.2	462.2	32.7	13.7	7.0	5.4	3.3	0.0	0.0	0.0	0.0
60°	2148.0	469.2	28.2	9.5	5.0	2.9	0.4	0.0	0.0	0.0	0.0
62.5°	2098.4	453.5	23.6	5.7	3.8	1.3	0.0	0.0	0.0	0.0	0.0
65°	1843.2	385.9	18.6	4.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1311.2	258.4	12.5	2.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	598.4	108.1	7.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	127.9	33.6	5.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	26.1	24.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	8.3	38.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.0	27.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.9	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)