

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: P200086

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200086
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-800-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 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: 8404.6 lumens
Efficiency: N/A
Efficacy: 97.7 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

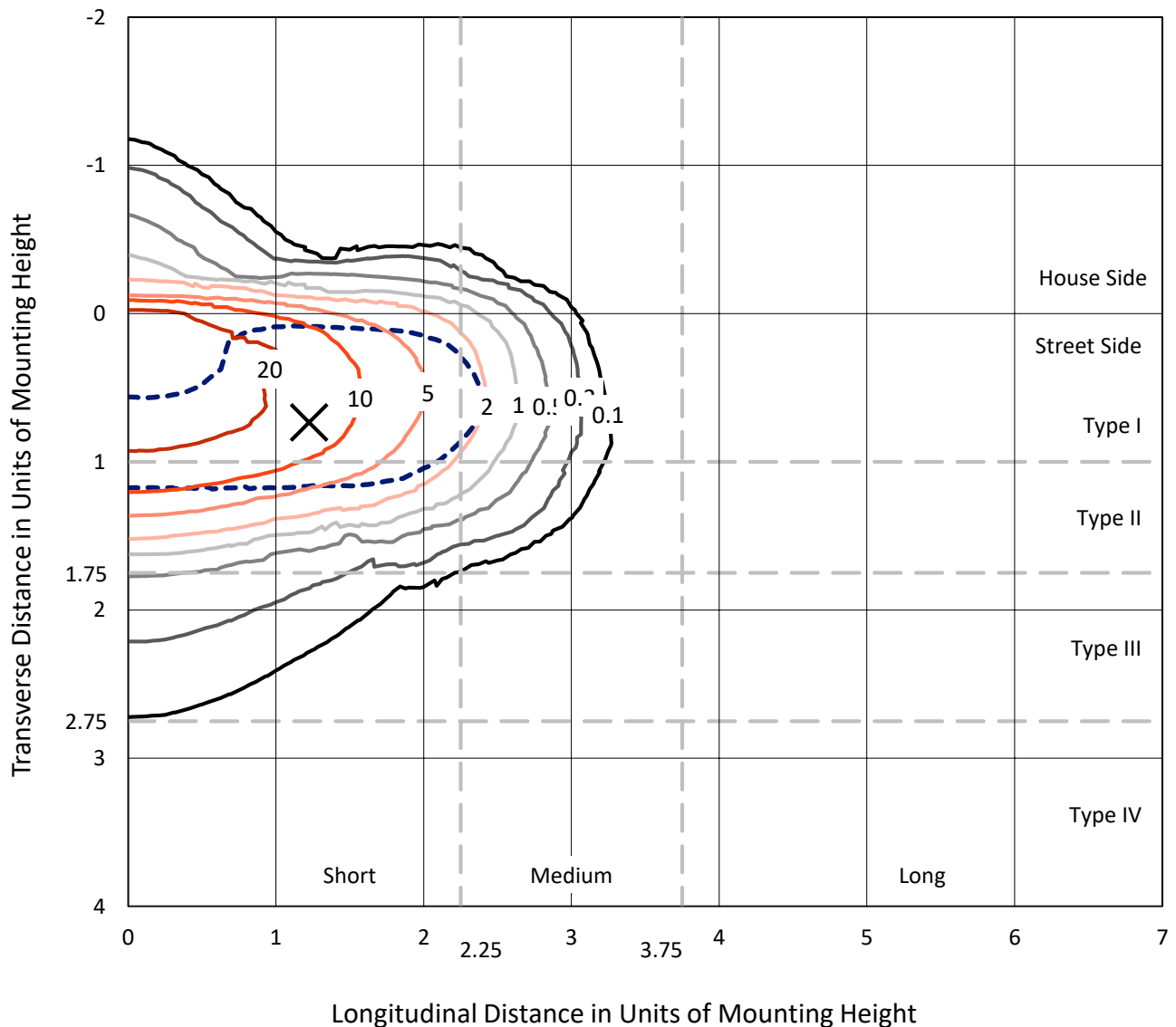
Input Watts (W): 86
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

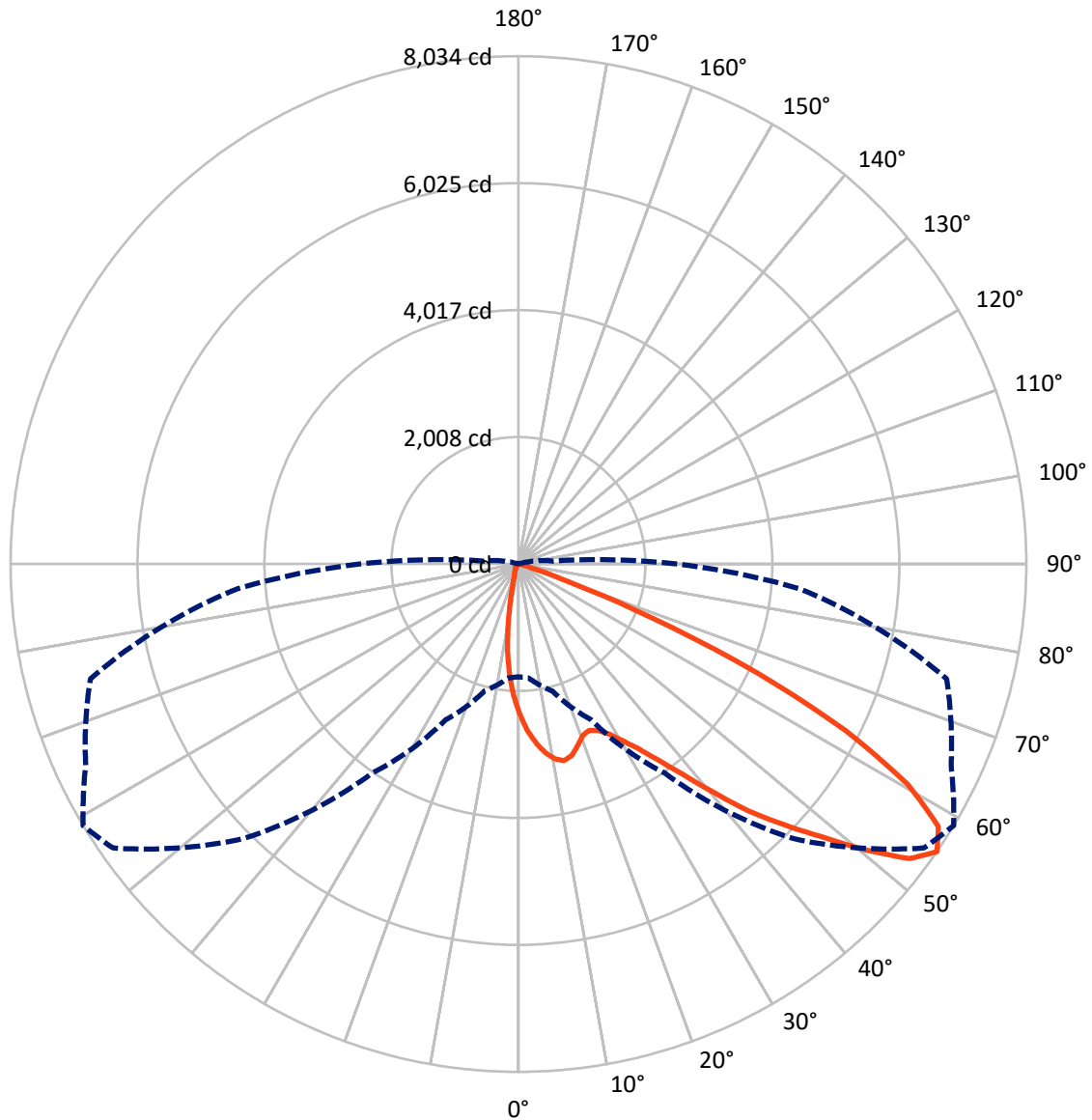
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 29.4 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
House Side	Lumens	469.4	0.0	469.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	7935.1	0.0	7935.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	8404.6	0.0	8404.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.2	2.4
10°-20°	474.5	5.6
20°-30°	807.4	9.6
30°-40°	1388.5	16.5
40°-50°	2143.7	25.5
50°-60°	2155.1	25.6
60°-70°	1105.1	13.1
70°-80°	119.8	1.4
80°-90°	12.5	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°	8404.6	100.0
0°-180°	8404.6	100.0

Coefficient of Utilization



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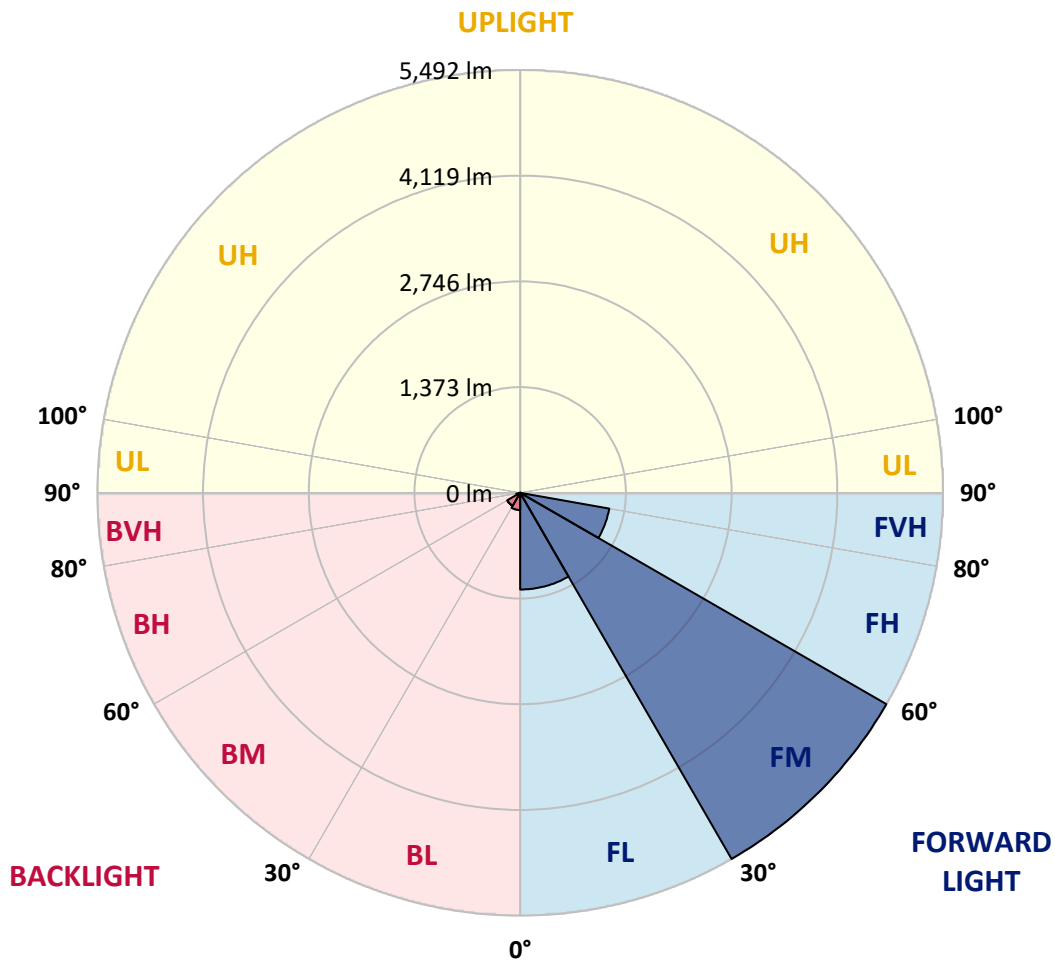
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1255.9	14.9			
FM	(30°-60°)	5492.3	65.3			
FH	(60°-80°)	1174.6	14.0			G1/1800
FVH	(80°-90°)	12.3	0.1			G1/100
BL	(0°-30°)	224.1	2.7	B1/500		
BM	(30°-60°)	194.8	2.3	B0/220		
BH	(60°-80°)	50.3	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	2365.9	2365.9	2365.9	2365.9	2365.9	2365.9	2365.9	2365.9	2365.9	2365.9	2365.9
2.5°	2799.3	2769.5	2760.6	2754.7	2727.4	2693.2	2646.6	2624.8	2580.1	2508.2	2419.9
5°	3055.8	3050.3	3030.5	3019.5	2990.3	2941.7	2867.3	2831.6	2760.6	2639.6	2481.4
7.5°	2943.6	2977.9	3005.2	3050.8	3108.3	3106.4	3043.9	3006.7	2927.3	2767.6	2549.9
10°	2510.7	2538.5	2583.1	2686.8	2898.0	3084.5	3158.0	3131.2	3067.6	2885.1	2615.8
12.5°	2425.8	2422.9	2430.8	2461.1	2571.7	2837.6	3138.6	3192.6	3179.7	2992.7	2678.3
15°	2471.0	2467.6	2466.5	2477.0	2503.8	2615.8	2993.3	3148.5	3248.2	3092.5	2731.4
17.5°	2597.5	2582.6	2574.7	2566.3	2558.3	2586.1	2818.7	3025.1	3258.6	3179.7	2775.6
20°	2814.2	2789.4	2760.1	2712.6	2668.0	2654.0	2745.3	2898.0	3221.5	3246.2	2804.3
22.5°	3086.5	3054.7	3004.2	2917.4	2826.6	2774.0	2781.5	2857.9	3165.9	3318.7	2817.7
25°	3392.5	3351.9	3284.4	3163.9	3030.5	2937.2	2888.6	2915.4	3140.6	3403.5	2833.1
27.5°	3720.4	3675.3	3587.0	3422.8	3271.5	3145.6	3046.3	3042.9	3183.7	3514.6	2857.9
30°	4045.3	4038.3	3923.2	3749.6	3549.2	3396.0	3253.2	3234.8	3304.2	3668.3	2907.0
32.5°	4478.8	4426.7	4285.9	4107.2	3876.2	3692.1	3522.9	3480.4	3489.3	3847.3	2982.8
35°	5025.3	4968.3	4769.9	4523.4	4265.0	4047.7	3860.7	3802.7	3780.9	4140.5	3110.8
37.5°	5378.5	5377.4	5253.0	5002.0	4724.8	4485.2	4281.9	4213.9	4169.8	4494.6	3309.2
40°	5387.9	5411.2	5427.6	5425.1	5227.7	5006.9	4826.5	4742.6	4639.9	4967.8	3565.6
42.5°	5098.7	5158.7	5303.1	5548.1	5665.2	5577.3	5425.1	5342.8	5190.0	5474.2	3878.1
45°	4707.9	4749.6	5002.0	5453.4	5902.2	6142.8	6026.7	5879.4	5678.1	6002.5	4158.4
47.5°	4532.8	4540.3	4703.4	5198.9	5920.1	6606.0	6676.5	6436.9	6121.4	6428.0	4377.6
50°	4009.6	4023.0	4248.1	4757.9	5710.8	6824.8	7329.2	7102.0	6605.1	6755.9	4457.4
52.5°	3022.0	3040.9	3326.5	4033.4	5135.4	6731.5	7796.4	7741.4	7134.8	6916.1	4461.9
55°	1783.1	1807.9	2080.7	2715.0	4039.3	6138.3	7831.1	8033.5	7552.9	7010.8	4455.0
57.5°	832.8	850.1	1006.4	1398.7	2512.2	4851.2	7308.4	7833.1	7783.5	7060.8	4504.1
60°	442.4	447.3	485.1	605.6	1135.3	3076.1	6288.1	7073.3	7573.2	7130.3	4564.1
62.5°	338.3	339.7	337.8	352.1	477.1	1365.4	4753.0	5815.0	6726.5	7078.2	4497.6
65°	293.2	295.6	281.7	278.2	306.1	487.0	2823.7	4145.0	5285.7	6375.4	4044.7
67.5°	262.9	263.8	247.0	232.6	237.5	263.4	1114.0	2269.1	3498.7	4673.1	2931.8
70°	242.0	241.0	222.7	199.9	193.4	180.0	354.1	831.8	1672.0	2369.9	1363.5
72.5°	214.3	214.7	205.8	176.0	160.7	126.0	164.2	242.5	499.0	645.8	319.4
75°	190.0	187.5	176.6	157.7	132.5	82.9	81.3	108.1	153.7	152.7	68.9
77.5°	137.4	134.9	138.4	129.4	101.7	53.6	40.7	52.1	62.5	60.6	19.3
80°	100.7	99.2	89.3	107.6	89.8	36.7	25.3	27.8	32.2	27.3	5.9
82.5°	68.9	68.4	63.0	59.5	51.0	22.3	15.9	17.4	20.9	15.3	3.0
85°	10.9	12.4	45.6	36.2	30.3	9.9	10.9	11.9	13.9	8.4	1.0
87.5°	0.0	0.0	21.3	18.8	5.9	4.0	6.4	7.0	7.0	4.5	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°	2365.9	2365.9	2365.9	2365.9	2365.9	2365.9	2365.9	2365.9	2365.9	2365.9	2365.9
2.5°	2374.8	2325.2	2233.4	2138.7	2050.9	1946.3	1874.4	1820.2	1757.7	1741.0	1777.6
5°	2391.1	2297.4	2100.0	1885.2	1683.4	1459.6	1288.6	1153.2	1030.6	989.0	1026.7
7.5°	2416.9	2277.6	1955.7	1602.0	1250.9	901.7	662.7	505.4	405.2	375.4	391.4
10°	2442.7	2248.8	1788.5	1266.7	786.6	438.9	285.7	228.1	206.8	202.3	204.8
12.5°	2464.1	2210.1	1584.7	900.7	420.6	235.1	187.0	177.6	174.6	174.6	175.5
15°	2477.0	2151.6	1343.1	572.9	242.0	177.6	163.2	160.2	160.2	160.7	161.7
17.5°	2475.4	2077.2	1078.8	346.7	181.1	157.2	148.8	146.3	145.8	146.8	147.3
20°	2457.1	1980.0	813.5	228.6	157.7	143.3	134.9	130.4	129.9	130.9	132.0
22.5°	2422.3	1859.9	581.8	176.0	142.4	129.9	119.6	115.6	115.6	116.5	117.5
25°	2380.2	1713.1	397.8	149.2	128.5	115.6	105.7	102.2	103.2	105.7	106.2
27.5°	2327.6	1547.9	270.3	128.0	111.6	101.2	93.7	91.2	93.7	97.2	98.2
30°	2282.5	1375.9	192.9	110.6	94.7	87.3	82.9	82.9	86.3	92.8	94.2
32.5°	2247.8	1209.2	148.8	97.7	82.3	75.9	73.4	75.9	81.3	87.8	89.3
35°	2243.3	1071.8	126.0	87.3	73.4	67.0	66.0	70.4	75.9	80.8	81.8
37.5°	2277.6	944.9	113.5	78.9	65.5	59.5	58.5	63.9	69.5	75.4	76.9
40°	2342.6	845.2	104.6	70.9	59.0	52.6	50.6	54.5	62.0	70.0	71.9
42.5°	2426.8	762.8	94.7	63.0	52.6	43.7	41.1	45.6	53.6	62.0	64.4
45°	2507.3	691.9	83.8	54.0	44.2	33.8	32.7	38.7	42.7	51.0	53.1
47.5°	2551.3	629.4	74.4	44.2	34.3	27.3	27.3	28.7	32.7	42.7	44.6
50°	2536.5	579.3	64.4	32.7	23.8	20.9	20.9	20.4	26.3	34.3	35.7
52.5°	2506.7	550.6	55.5	25.3	16.4	14.8	13.4	14.8	18.3	21.8	22.3
55°	2502.2	545.5	46.6	20.4	11.5	9.9	7.5	7.5	7.5	7.0	5.9
57.5°	2537.0	553.5	39.2	16.4	8.4	6.4	4.0	0.0	0.0	0.0	0.0
60°	2572.7	561.9	33.8	11.5	5.9	3.5	0.5	0.0	0.0	0.0	0.0
62.5°	2513.2	543.1	28.2	7.0	4.5	1.5	0.0	0.0	0.0	0.0	0.0
65°	2207.6	462.3	22.3	4.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1570.3	309.5	14.8	3.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	716.7	129.4	9.4	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	153.2	40.2	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	31.2	29.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.9	46.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.9	33.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	4.9	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)