

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: P193451

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-8030-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193451  
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: GLEON-AF-03-LED-E1-AFL-8030-600-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 80 CRI, 3000K, 615mA 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: 7998 lumens  
Efficiency: N/A  
Efficacy: 83.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 96  
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

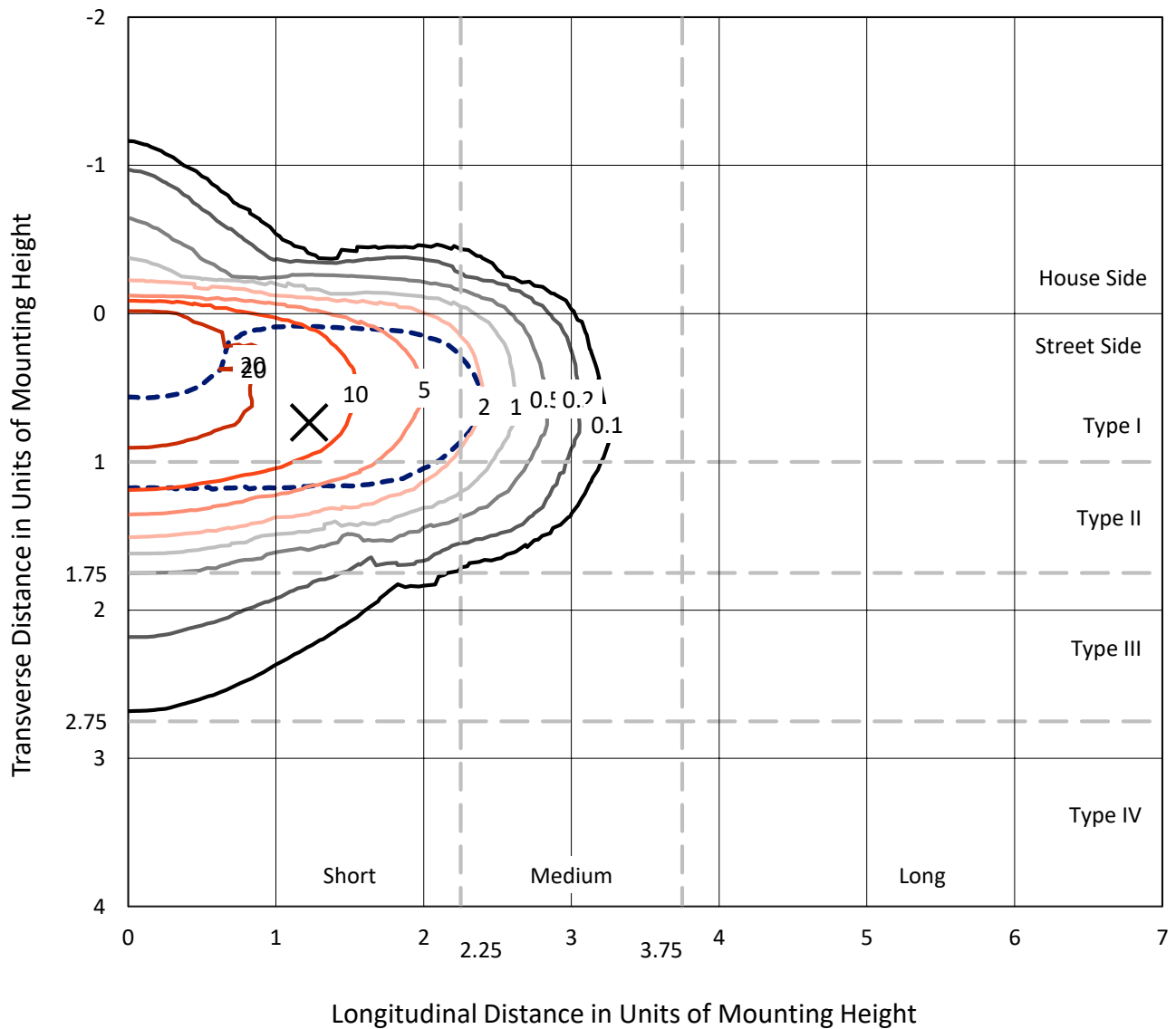


REPORT NUMBER: P193451

CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-8030-600-HSS

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

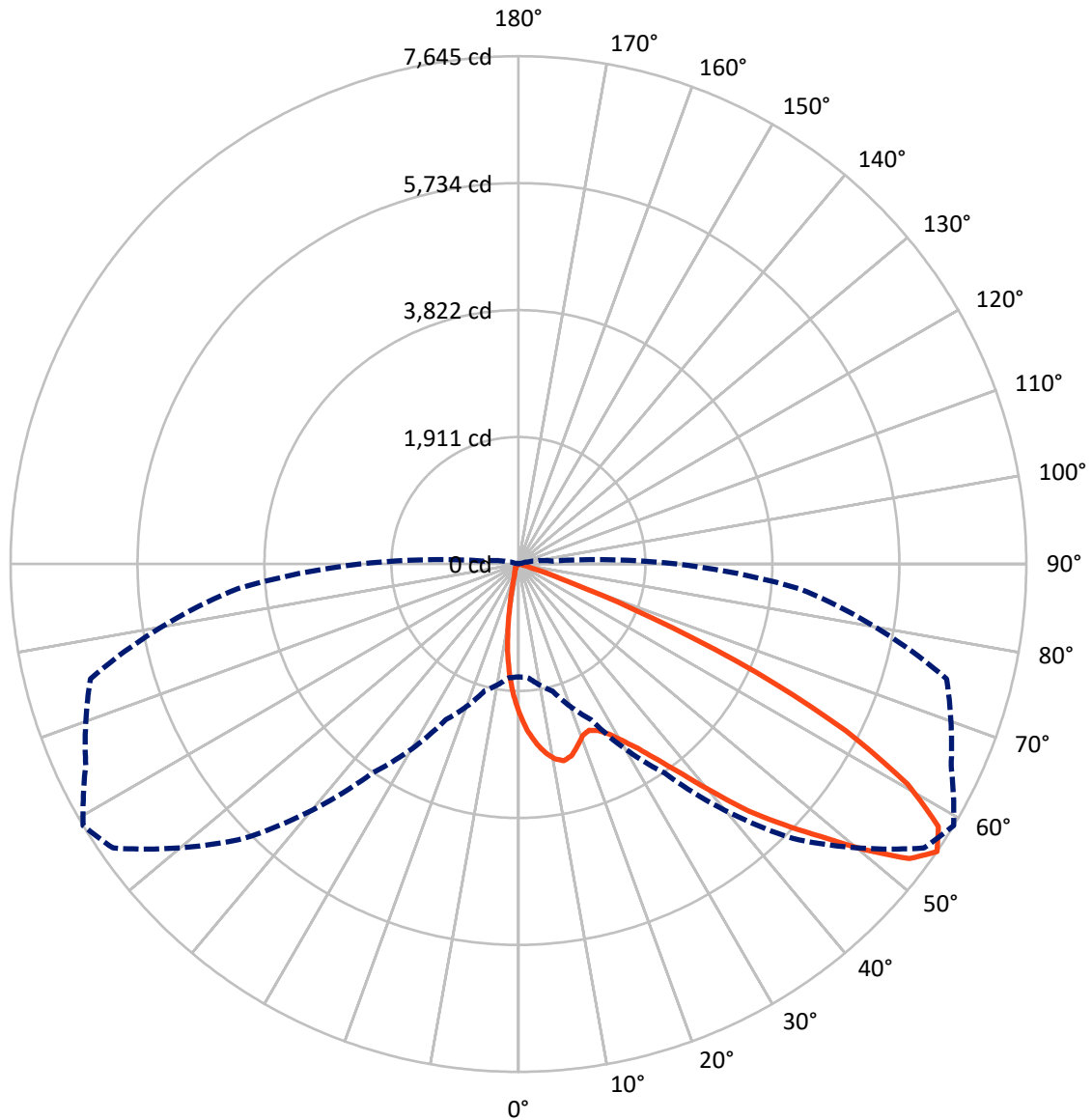


Based on 10 foot mounting height. Maximum calculated value = 28 fc  
 Type II - Short - Full Cutoff

REPORT NUMBER: P193451

CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-8030-600-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P193451

CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-8030-600-HSS

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	446.7	0.0	446.7
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	7551.3	0.0	7551.3
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	7998.0	0.0	7998.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.6	2.4
10°-20°	451.5	5.6
20°-30°	768.3	9.6
30°-40°	1321.3	16.5
40°-50°	2040.0	25.5
50°-60°	2050.8	25.6
60°-70°	1051.7	13.1
70°-80°	114.0	1.4
80°-90°	11.9	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°	7998.0	100.0
0°-180°	7998.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P193451

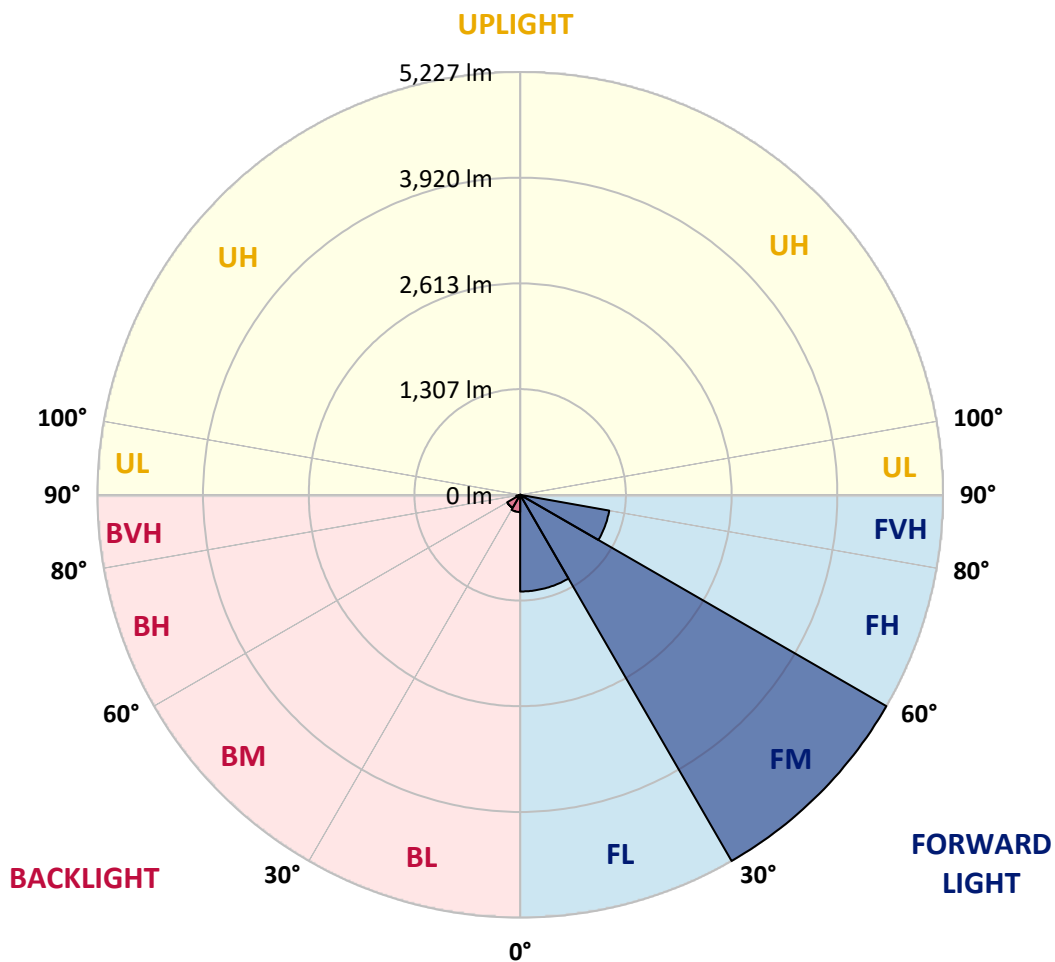
CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-8030-600-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1195.2	14.9			
FM	(30°-60°)	5226.7	65.3			
FH	(60°-80°)	1117.8	14.0			G1/1800
FVH	(80°-90°)	11.7	0.1			G1/100
BL	(0°-30°)	213.2	2.7	B1/500		
BM	(30°-60°)	185.4	2.3	B0/220		
BH	(60°-80°)	47.9	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





REPORT NUMBER: P193451

CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-8030-600-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4
2.5°	2663.9	2635.6	2627.1	2621.5	2595.5	2562.9	2518.6	2497.8	2455.3	2386.9	2302.9
5°	2908.0	2902.8	2883.9	2873.5	2845.6	2799.4	2728.6	2694.6	2627.1	2511.9	2361.4
7.5°	2801.3	2833.8	2859.8	2903.2	2958.0	2956.1	2896.6	2861.2	2785.7	2633.7	2426.5
10°	2389.2	2415.7	2458.1	2556.8	2757.9	2935.3	3005.2	2979.7	2919.3	2745.6	2489.3
12.5°	2308.5	2305.7	2313.2	2342.0	2447.3	2700.3	2986.8	3038.2	3025.9	2848.0	2548.8
15°	2351.5	2348.2	2347.2	2357.1	2382.6	2489.3	2848.5	2996.2	3091.1	2942.9	2599.3
17.5°	2471.8	2457.7	2450.1	2442.1	2434.5	2461.0	2682.3	2878.7	3101.0	3025.9	2641.3
20°	2678.1	2654.5	2626.6	2581.3	2538.9	2525.6	2612.5	2757.9	3065.6	3089.2	2668.7
22.5°	2937.2	2907.0	2858.9	2776.3	2689.9	2639.9	2646.9	2719.6	3012.7	3158.1	2681.4
25°	3228.4	3189.7	3125.5	3010.8	2883.9	2795.1	2748.9	2774.4	2988.7	3238.8	2696.0
27.5°	3540.4	3497.5	3413.5	3257.2	3113.3	2993.4	2899.0	2895.7	3029.7	3344.5	2719.6
30°	3849.6	3843.0	3733.5	3568.3	3377.6	3231.7	3095.8	3078.3	3144.4	3490.9	2766.4
32.5°	4262.1	4212.5	4078.5	3908.6	3688.6	3513.5	3352.6	3312.0	3320.5	3661.3	2838.6
35°	4782.2	4728.0	4539.2	4304.6	4058.7	3851.9	3674.0	3618.8	3598.0	3940.2	2960.3
37.5°	5118.3	5117.4	4998.9	4760.1	4496.2	4268.2	4074.7	4010.1	3968.0	4277.2	3149.1
40°	5127.3	5149.4	5165.0	5162.7	4974.8	4764.8	4593.0	4513.2	4415.5	4727.5	3393.2
42.5°	4852.1	4909.2	5046.6	5279.7	5391.1	5307.6	5162.7	5084.3	4938.9	5209.4	3690.5
45°	4480.2	4519.8	4760.1	5189.6	5616.7	5845.6	5735.2	5595.0	5403.4	5712.1	3957.2
47.5°	4313.5	4320.6	4475.9	4947.4	5633.7	6286.5	6353.5	6125.5	5825.3	6117.0	4165.8
50°	3815.6	3828.3	4042.6	4527.8	5434.5	6494.6	6974.6	6758.5	6285.5	6429.0	4241.8
52.5°	2875.9	2893.8	3165.7	3838.2	4887.0	6405.9	7419.3	7366.9	6789.6	6581.5	4246.1
55°	1696.8	1720.4	1980.0	2583.7	3843.9	5841.4	7452.3	7644.9	7187.5	6671.6	4239.4
57.5°	792.5	809.0	957.7	1331.0	2390.6	4616.6	6954.8	7454.2	7407.0	6719.3	4286.2
60°	421.0	425.7	461.6	576.3	1080.4	2927.3	5983.9	6731.1	7206.9	6785.4	4343.3
62.5°	321.9	323.3	321.4	335.1	454.1	1299.4	4523.1	5533.6	6401.2	6735.8	4280.0
65°	278.9	281.3	268.1	264.8	291.2	463.5	2687.1	3944.4	5030.0	6067.0	3849.1
67.5°	250.2	251.1	235.1	221.4	226.1	250.6	1060.1	2159.4	3329.4	4447.1	2790.0
70°	230.3	229.4	211.9	190.2	184.1	171.3	337.0	791.5	1591.1	2255.2	1297.5
72.5°	203.9	204.4	195.9	167.6	152.9	119.9	156.2	230.8	474.8	614.5	304.0
75°	180.8	178.4	168.0	150.1	126.0	78.8	77.4	102.9	146.3	145.4	65.6
77.5°	130.7	128.4	131.7	123.2	96.8	51.0	38.7	49.6	59.5	57.6	18.4
80°	95.8	94.4	85.0	102.4	85.4	34.9	24.1	26.4	30.7	26.0	5.7
82.5°	65.6	65.1	59.9	56.6	48.6	21.2	15.1	16.5	19.8	14.6	2.8
85°	10.4	11.8	43.4	34.5	28.8	9.4	10.4	11.3	13.2	8.0	0.9
87.5°	0.0	0.0	20.3	17.9	5.7	3.8	6.1	6.6	6.6	4.2	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



REPORT NUMBER: P193451

CATALOG NUMBER: GLEON-AF-03-LED-E1-AFL-8030-600-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4	2251.4
2.5°	2259.9	2212.7	2125.4	2035.2	1951.7	1852.1	1783.7	1732.2	1672.7	1656.7	1691.6
5°	2275.5	2186.3	1998.4	1794.0	1601.9	1389.1	1226.2	1097.4	980.8	941.2	977.0
7.5°	2300.0	2167.4	1861.1	1524.5	1190.4	858.1	630.6	481.0	385.6	357.3	372.4
10°	2324.6	2140.0	1702.0	1205.5	748.6	417.7	271.9	217.1	196.8	192.6	194.9
12.5°	2344.9	2103.2	1508.0	857.1	400.3	223.7	177.9	169.0	166.1	166.1	167.1
15°	2357.1	2047.5	1278.2	545.2	230.3	169.0	155.3	152.5	152.5	152.9	153.9
17.5°	2355.7	1976.7	1026.6	329.9	172.3	149.6	141.6	139.2	138.8	139.7	140.2
20°	2338.3	1884.2	774.1	217.6	150.1	136.4	128.4	124.1	123.7	124.6	125.6
22.5°	2305.2	1770.0	553.6	167.6	135.5	123.7	113.8	110.0	110.0	110.9	111.9
25°	2265.1	1630.3	378.5	142.1	122.2	110.0	100.5	97.2	98.2	100.5	101.0
27.5°	2215.1	1473.1	257.2	121.8	106.2	96.3	89.2	86.8	89.2	92.5	93.5
30°	2172.1	1309.3	183.6	105.3	90.2	83.1	78.8	78.8	82.1	88.3	89.7
32.5°	2139.1	1150.7	141.6	93.0	78.4	72.2	69.9	72.2	77.4	83.5	85.0
35°	2134.8	1020.0	119.9	83.1	69.9	63.7	62.8	67.0	72.2	76.9	77.9
37.5°	2167.4	899.1	108.1	75.0	62.3	56.6	55.7	60.9	66.1	71.7	73.2
40°	2229.2	804.3	99.6	67.5	56.2	50.0	48.1	51.9	59.0	66.6	68.4
42.5°	2309.5	725.9	90.2	59.9	50.0	41.5	39.2	43.4	51.0	59.0	61.4
45°	2385.9	658.4	79.8	51.4	42.0	32.1	31.2	36.8	40.6	48.6	50.5
47.5°	2427.9	599.0	70.8	42.0	32.6	26.0	26.0	27.4	31.2	40.6	42.5
50°	2413.8	551.3	61.4	31.2	22.7	19.8	19.8	19.4	25.0	32.6	34.0
52.5°	2385.5	523.9	52.9	24.1	15.6	14.2	12.7	14.2	17.5	20.8	21.2
55°	2381.2	519.2	44.4	19.4	10.9	9.4	7.1	7.1	7.1	6.6	5.7
57.5°	2414.2	526.7	37.3	15.6	8.0	6.1	3.8	0.0	0.0	0.0	0.0
60°	2448.2	534.8	32.1	10.9	5.7	3.3	0.5	0.0	0.0	0.0	0.0
62.5°	2391.6	516.8	26.9	6.6	4.2	1.4	0.0	0.0	0.0	0.0	0.0
65°	2100.8	439.9	21.2	4.7	2.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1494.3	294.5	14.2	2.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	682.0	123.2	9.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	145.8	38.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	29.7	27.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.4	43.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.7	31.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.9	4.7	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)