

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: P191720

Luminaire Tested: **GLEON-AF-02-LED-E1-AFL-7050-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191720  
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-02-LED-E1-AFL-7050-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 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: 8055 lumens  
Efficiency: N/A  
Efficacy: 94.8 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 85  
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

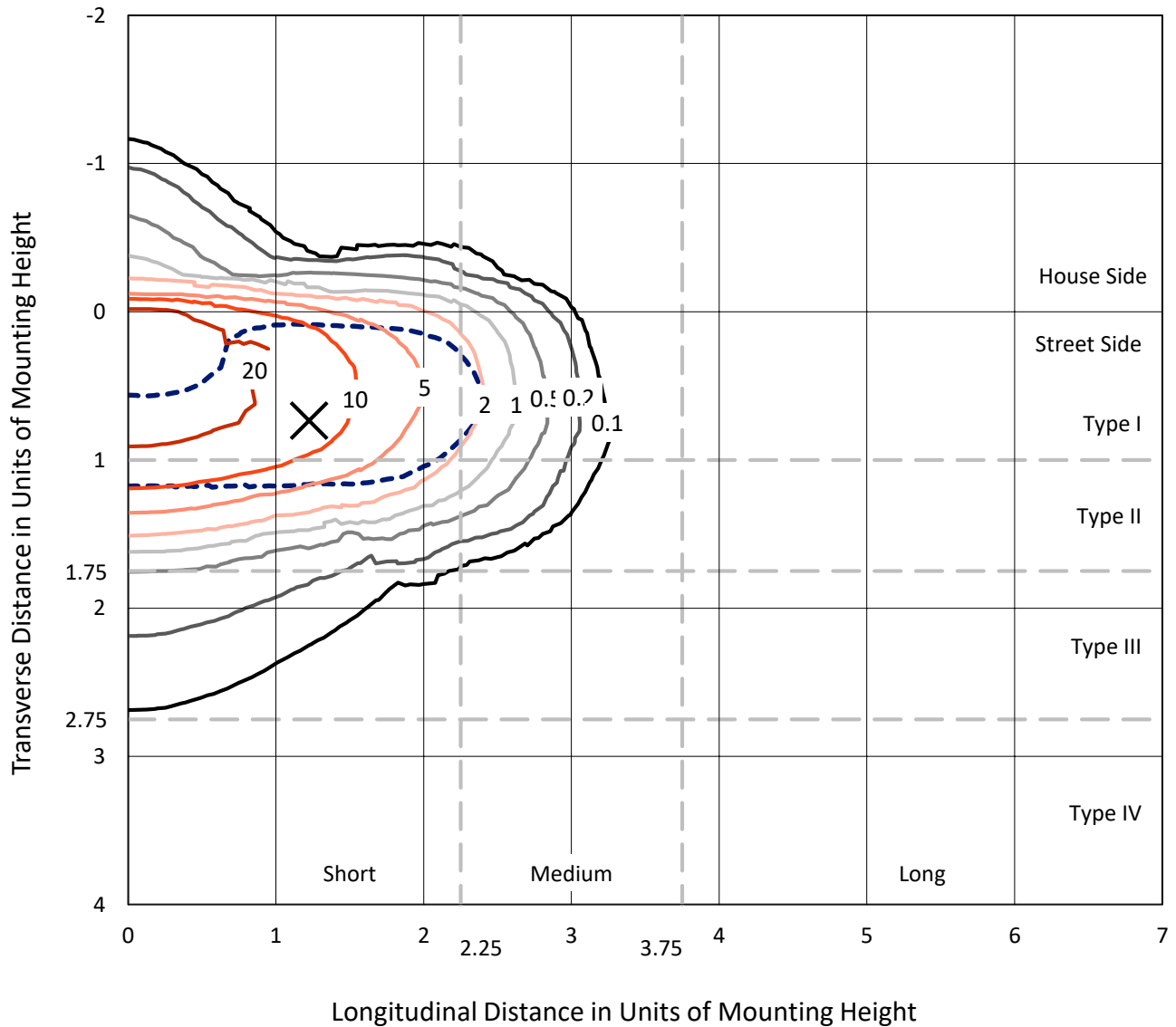


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### Iso-Footcandle Lines of Horizontal Illumination

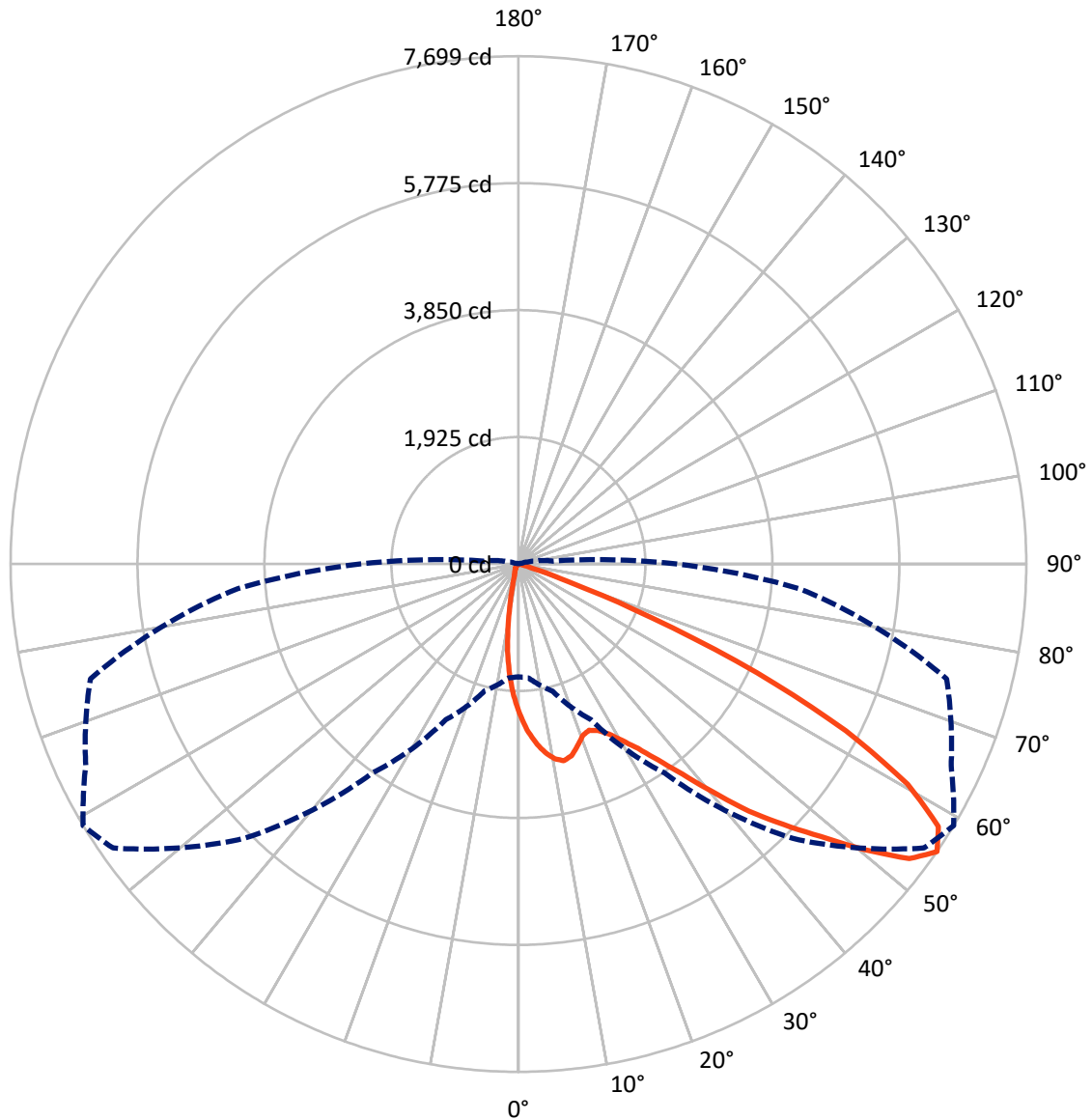
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28.2 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	449.9	0.0	449.9
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	7605.1	0.0	7605.1
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	8055.0	0.0	8055.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.9	2.4
10°-20°	454.7	5.6
20°-30°	773.8	9.6
30°-40°	1330.7	16.5
40°-50°	2054.5	25.5
50°-60°	2065.4	25.6
60°-70°	1059.2	13.1
70°-80°	114.8	1.4
80°-90°	12.0	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°	8055.0	100.0
0°-180°	8055.0	100.0



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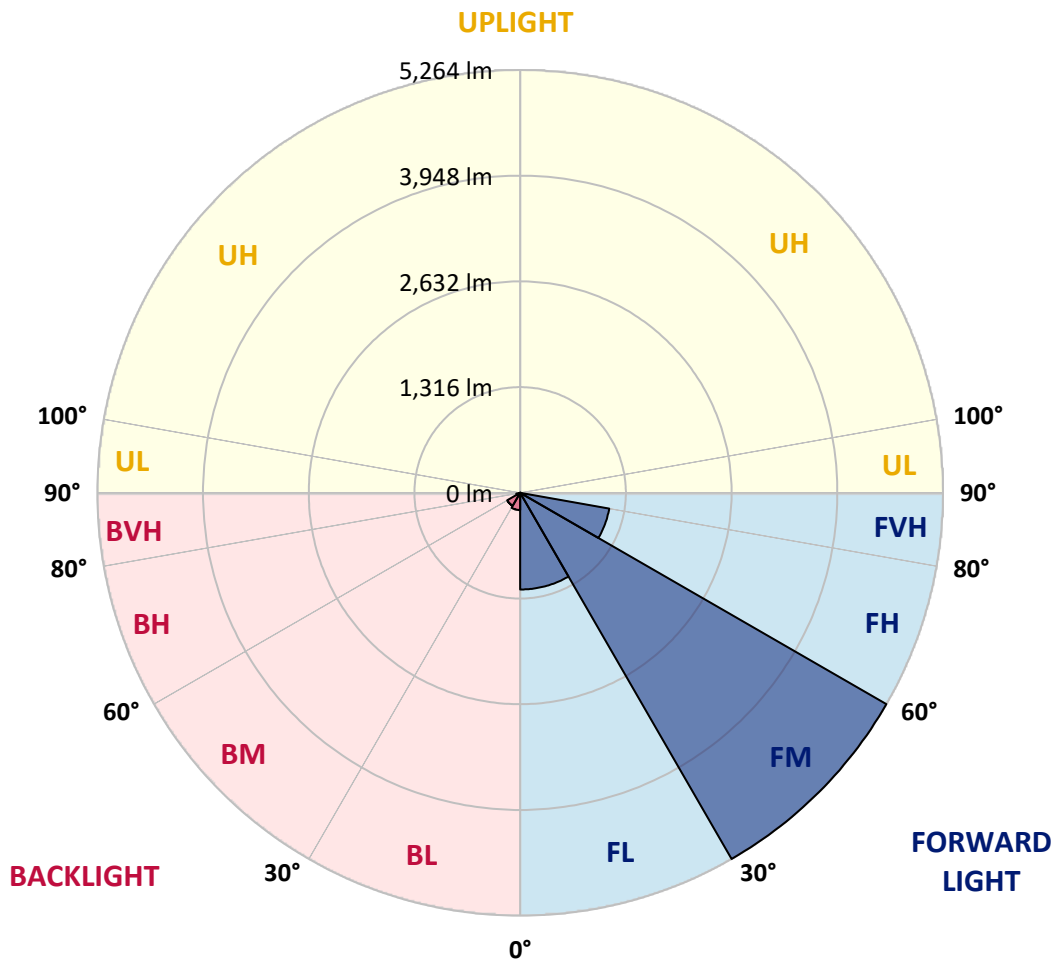
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1203.7	14.9			
FM (30°-60°)	5263.9	65.3			
FH (60°-80°)	1125.7	14.0			G1/1800
FVH (80°-90°)	11.8	0.1			G1/100
BL (0°-30°)	214.7	2.7	B1/500		
BM (30°-60°)	186.7	2.3	B0/220		
BH (60°-80°)	48.2	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°	2267.5	2267.5	2267.5	2267.5	2267.5	2267.5	2267.5	2267.5	2267.5	2267.5	2267.5
2.5°	2682.9	2654.4	2645.8	2640.1	2614.0	2581.2	2536.5	2515.6	2472.8	2403.9	2319.3
5°	2928.7	2923.4	2904.4	2894.0	2865.9	2819.3	2748.0	2713.8	2645.8	2529.9	2378.2
7.5°	2821.2	2854.0	2880.2	2923.9	2979.1	2977.2	2917.3	2881.6	2805.6	2652.5	2443.8
10°	2406.3	2432.9	2475.7	2575.0	2777.5	2956.2	3026.6	3000.9	2940.1	2765.2	2507.0
12.5°	2325.0	2322.1	2329.7	2358.7	2464.7	2719.5	3008.1	3059.9	3047.5	2868.3	2566.9
15°	2368.2	2364.9	2364.0	2373.9	2399.6	2507.0	2868.8	3017.6	3113.1	2963.9	2617.8
17.5°	2489.4	2475.2	2467.6	2459.5	2451.9	2478.5	2701.5	2899.2	3123.1	3047.5	2660.1
20°	2697.2	2673.4	2645.4	2599.7	2556.9	2543.6	2631.1	2777.5	3087.4	3111.2	2687.7
22.5°	2958.1	2927.7	2879.2	2796.1	2709.1	2658.7	2665.8	2739.0	3034.2	3180.6	2700.5
25°	3251.4	3212.5	3147.8	3032.3	2904.4	2815.1	2768.5	2794.1	3010.0	3261.9	2715.2
27.5°	3565.7	3522.4	3437.8	3280.4	3135.5	3014.7	2919.6	2916.3	3051.3	3368.4	2739.0
30°	3877.0	3870.4	3760.1	3593.7	3401.7	3254.8	3117.9	3100.3	3166.8	3515.7	2786.1
32.5°	4292.5	4242.6	4107.6	3936.4	3714.9	3538.6	3376.5	3335.6	3344.1	3687.3	2858.8
35°	4816.3	4761.7	4571.5	4335.3	4087.6	3879.4	3700.2	3644.6	3623.6	3968.3	2981.4
37.5°	5154.8	5153.8	5034.5	4794.0	4528.3	4298.7	4103.8	4038.6	3996.3	4307.7	3171.6
40°	5163.8	5186.1	5201.8	5199.5	5010.3	4798.7	4625.7	4545.4	4447.0	4761.2	3417.3
42.5°	4886.7	4944.2	5082.5	5317.3	5429.5	5345.4	5199.5	5120.5	4974.1	5246.5	3716.8
45°	4512.1	4552.0	4794.0	5226.6	5656.7	5887.3	5776.1	5634.9	5441.9	5752.8	3985.4
47.5°	4344.3	4351.4	4507.8	4982.7	5673.9	6331.3	6398.8	6169.2	5866.9	6160.6	4195.5
50°	3842.8	3855.6	4071.4	4560.1	5473.3	6540.9	7024.4	6806.6	6330.3	6474.8	4272.0
52.5°	2896.4	2914.4	3188.2	3865.6	4921.8	6451.5	7472.1	7419.4	6838.0	6628.4	4276.3
55°	1708.9	1732.7	1994.1	2602.1	3871.3	5883.0	7505.4	7699.4	7238.7	6719.2	4269.7
57.5°	798.1	814.8	964.5	1340.5	2407.7	4649.5	7004.4	7507.3	7459.8	6767.2	4316.7
60°	424.0	428.8	464.9	580.4	1088.1	2948.2	6026.6	6779.1	7258.2	6833.7	4374.2
62.5°	324.2	325.6	323.7	337.5	457.3	1308.7	4555.3	5573.1	6446.8	6783.8	4310.5
65°	280.9	283.3	270.0	266.7	293.3	466.8	2706.2	3972.6	5065.9	6110.2	3876.5
67.5°	251.9	252.9	236.7	222.9	227.7	252.4	1067.7	2174.8	3353.2	4478.8	2809.8
70°	232.0	231.0	213.4	191.6	185.4	172.6	339.4	797.2	1602.4	2271.3	1306.8
72.5°	205.4	205.8	197.3	168.8	154.0	120.7	157.3	232.4	478.2	618.9	306.1
75°	182.1	179.7	169.2	151.2	126.9	79.4	78.0	103.6	147.4	146.4	66.1
77.5°	131.7	129.3	132.6	124.1	97.4	51.3	39.0	49.9	59.9	58.0	18.5
80°	96.5	95.1	85.6	103.2	86.0	35.2	24.2	26.6	30.9	26.1	5.7
82.5°	66.1	65.6	60.4	57.0	49.0	21.4	15.2	16.6	20.0	14.7	2.9
85°	10.5	11.9	43.7	34.7	29.0	9.5	10.5	11.4	13.3	8.1	1.0
87.5°	0.0	0.0	20.4	18.1	5.7	3.8	6.2	6.7	6.7	4.3	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°	2267.5	2267.5	2267.5	2267.5	2267.5	2267.5	2267.5	2267.5	2267.5	2267.5	2267.5
2.5°	2276.0	2228.5	2140.5	2049.7	1965.6	1865.3	1796.4	1744.6	1684.7	1668.5	1703.7
5°	2291.7	2201.9	2012.7	1806.8	1613.4	1399.0	1235.0	1105.2	987.8	947.9	984.0
7.5°	2316.4	2182.8	1874.3	1535.4	1198.9	864.2	635.1	484.4	388.4	359.8	375.1
10°	2341.1	2155.3	1714.1	1214.1	753.9	420.7	273.8	218.7	198.2	193.9	196.3
12.5°	2361.6	2118.2	1518.8	863.2	403.1	225.3	179.2	170.2	167.3	167.3	168.3
15°	2373.9	2062.1	1287.3	549.0	232.0	170.2	156.4	153.5	153.5	154.0	155.0
17.5°	2372.5	1990.8	1033.9	332.3	173.5	150.7	142.6	140.2	139.8	140.7	141.2
20°	2354.9	1897.6	779.6	219.1	151.2	137.4	129.3	125.0	124.5	125.5	126.4
22.5°	2321.6	1782.6	557.6	168.8	136.4	124.5	114.6	110.8	110.8	111.7	112.7
25°	2281.2	1641.9	381.2	143.1	123.1	110.8	101.3	97.9	98.9	101.3	101.7
27.5°	2230.9	1483.6	259.1	122.6	107.0	97.0	89.8	87.5	89.8	93.2	94.1
30°	2187.6	1318.6	184.9	106.0	90.8	83.7	79.4	79.4	82.7	88.9	90.3
32.5°	2154.3	1158.9	142.6	93.6	78.9	72.7	70.4	72.7	78.0	84.1	85.6
35°	2150.0	1027.2	120.7	83.7	70.4	64.2	63.2	67.5	72.7	77.5	78.4
37.5°	2182.8	905.6	108.9	75.6	62.7	57.0	56.1	61.3	66.5	72.3	73.7
40°	2245.1	810.0	100.3	68.0	56.6	50.4	48.5	52.3	59.4	67.0	68.9
42.5°	2325.9	731.1	90.8	60.4	50.4	41.8	39.5	43.7	51.3	59.4	61.8
45°	2402.9	663.1	80.3	51.8	42.3	32.3	31.4	37.1	40.9	49.0	50.9
47.5°	2445.2	603.2	71.3	42.3	32.8	26.1	26.1	27.6	31.4	40.9	42.8
50°	2431.0	555.2	61.8	31.4	22.8	20.0	20.0	19.5	25.2	32.8	34.2
52.5°	2402.5	527.6	53.2	24.2	15.7	14.3	12.8	14.3	17.6	20.9	21.4
55°	2398.2	522.9	44.7	19.5	10.9	9.5	7.1	7.1	7.1	6.7	5.7
57.5°	2431.5	530.5	37.6	15.7	8.1	6.2	3.8	0.0	0.0	0.0	0.0
60°	2465.7	538.6	32.3	10.9	5.7	3.3	0.5	0.0	0.0	0.0	0.0
62.5°	2408.6	520.5	27.1	6.7	4.3	1.4	0.0	0.0	0.0	0.0	0.0
65°	2115.8	443.0	21.4	4.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1505.0	296.6	14.3	2.9	0.5	0.0	0.0	0.0	0.0	0.0	0.0
70°	686.9	124.1	9.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	146.9	38.5	6.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	29.9	28.0	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	9.5	44.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	5.7	31.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.0	4.8	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)