

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: P191730

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191730  
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-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 5000K, 1050mA 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: 9970 lumens  
Efficiency: N/A  
Efficacy: 88.2 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): 113  
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

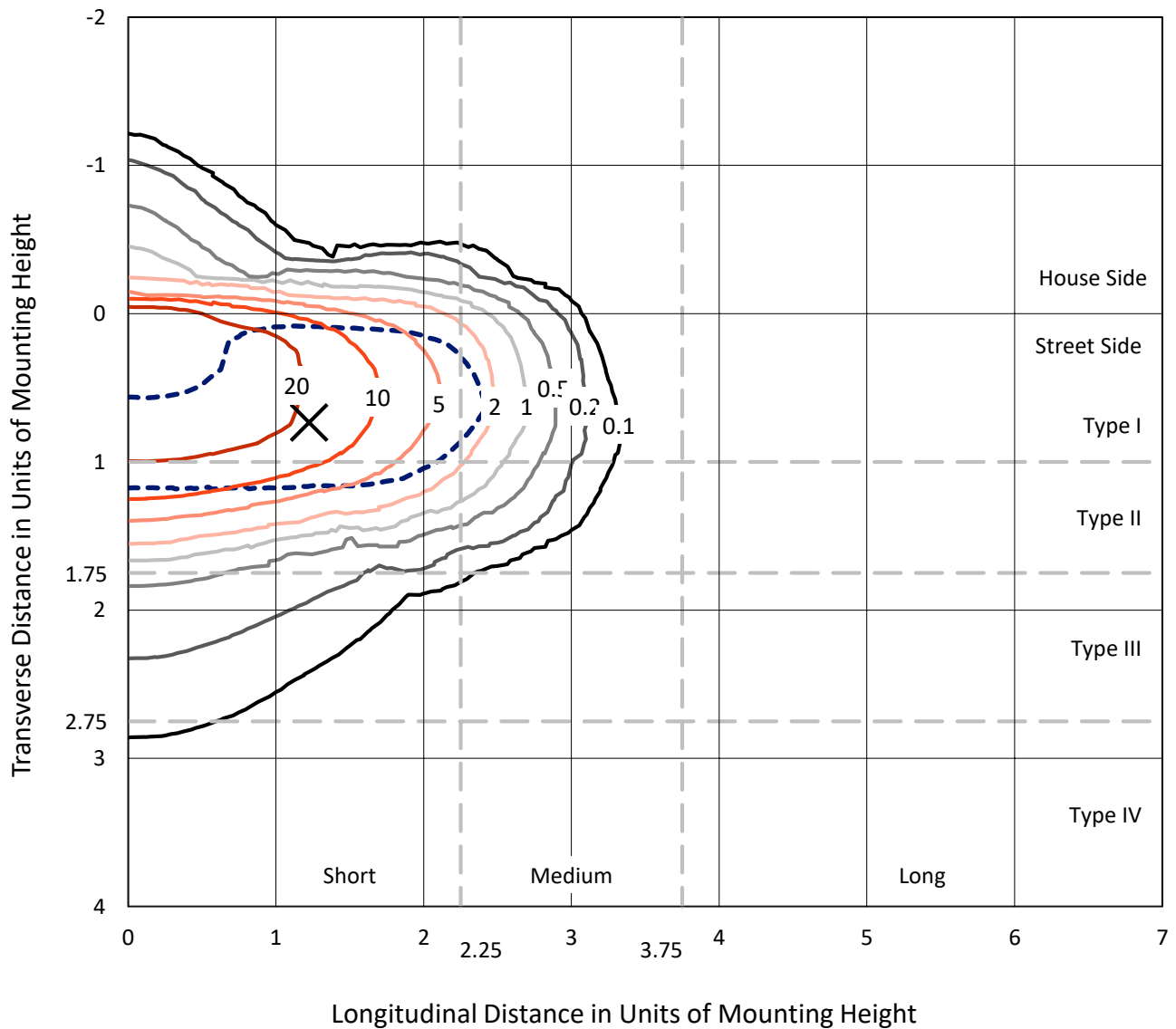


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

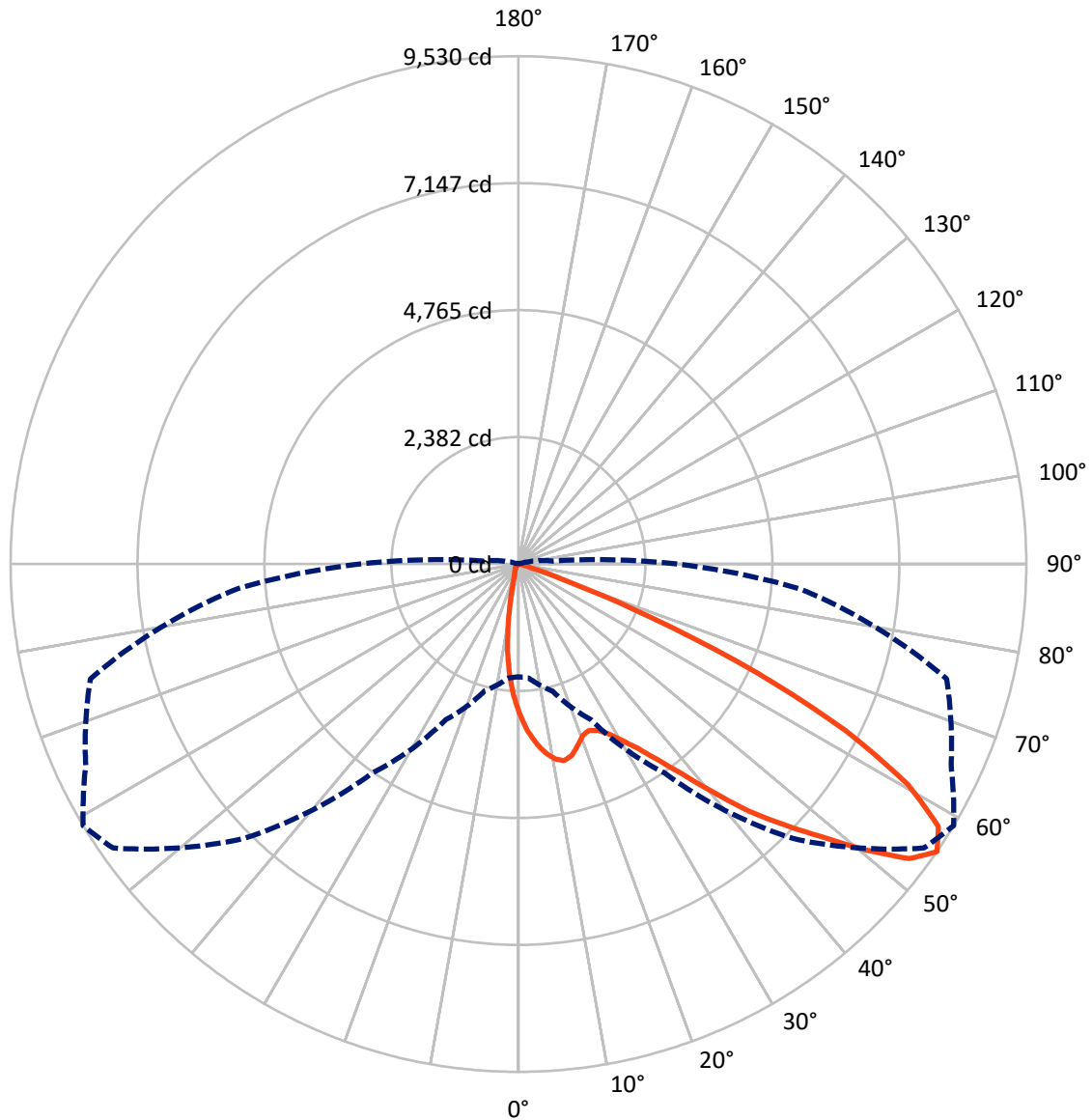


Based on 10 foot mounting height. Maximum calculated value = 34.9 fc  
 Type II - Short - Full Cutoff

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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	556.9	0.0	556.9
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	9413.1	0.0	9413.1
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	9970.0	0.0	9970.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	235.1	2.4
10°-20°	562.8	5.6
20°-30°	957.7	9.6
30°-40°	1647.1	16.5
40°-50°	2542.9	25.5
50°-60°	2556.5	25.6
60°-70°	1311.0	13.1
70°-80°	142.1	1.4
80°-90°	14.9	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°	9970.0	100.0
0°-180°	9970.0	100.0

**Coefficient of Utilization**



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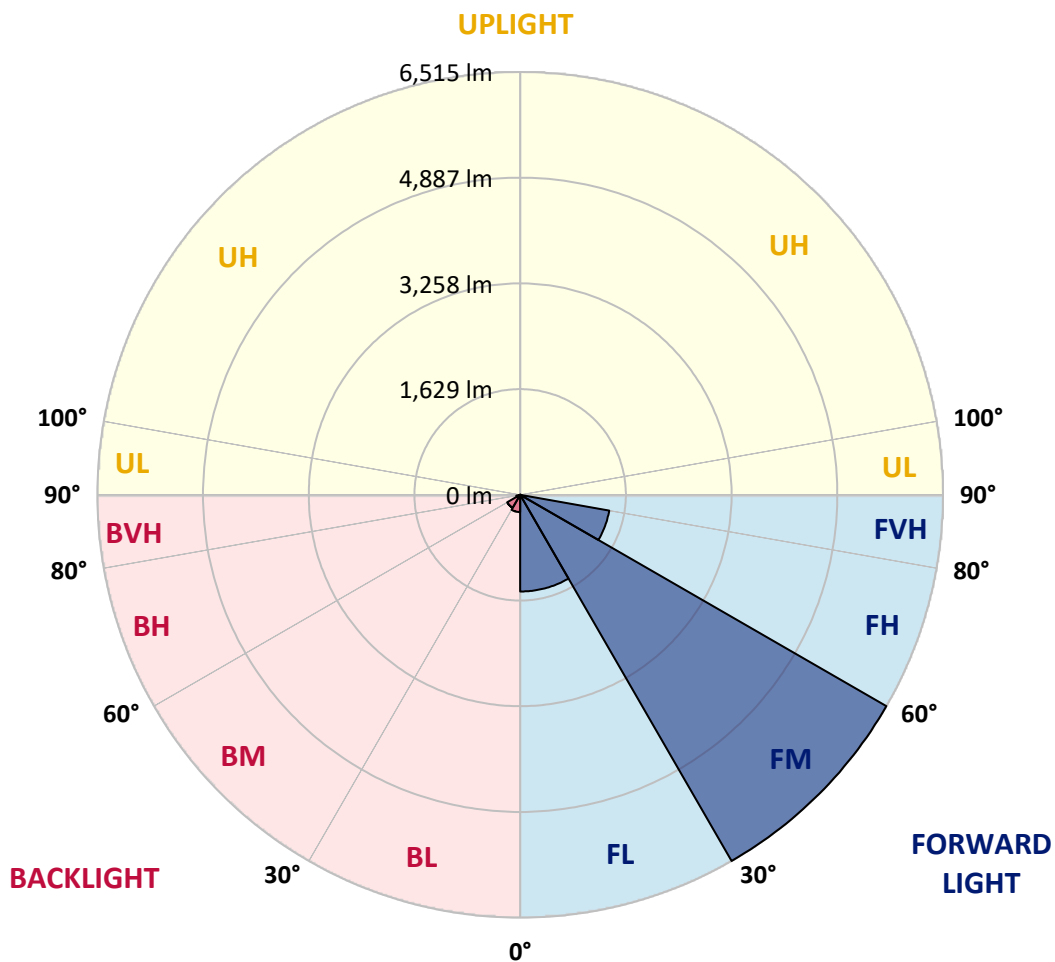
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1489.8	14.9			
FM	(30°-60°)	6515.4	65.3			
FH	(60°-80°)	1393.4	14.0			G1/1800
FVH	(80°-90°)	14.5	0.1			G1/100
BL	(0°-30°)	265.8	2.7	B1/500		
BM	(30°-60°)	231.1	2.3	B1/1000		
BH	(60°-80°)	59.7	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°	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5
2.5°	3320.8	3285.5	3274.9	3267.8	3235.4	3194.8	3139.5	3113.6	3060.7	2975.4	2870.7
5°	3624.9	3618.5	3594.9	3582.0	3547.3	3489.6	3401.4	3359.0	3274.9	3131.3	2943.6
7.5°	3492.0	3532.6	3564.9	3619.1	3687.3	3685.0	3610.8	3566.7	3472.6	3283.1	3024.8
10°	2978.3	3011.3	3064.2	3187.2	3437.8	3659.1	3746.1	3714.4	3639.1	3422.5	3103.1
12.5°	2877.7	2874.2	2883.6	2919.5	3050.7	3366.1	3723.2	3787.3	3772.0	3550.2	3177.2
15°	2931.3	2927.1	2926.0	2938.3	2970.1	3103.1	3550.8	3735.0	3853.2	3668.5	3240.1
17.5°	3081.3	3063.6	3054.2	3044.2	3034.8	3067.8	3343.7	3588.5	3865.6	3772.0	3292.5
20°	3338.4	3309.0	3274.3	3217.8	3164.8	3148.4	3256.6	3437.8	3821.5	3850.9	3326.6
22.5°	3661.4	3623.8	3563.7	3460.8	3353.1	3290.7	3299.6	3390.2	3755.6	3936.8	3342.5
25°	4024.4	3976.2	3896.2	3753.2	3594.9	3484.3	3426.7	3458.4	3725.6	4037.4	3360.8
27.5°	4413.4	4359.8	4255.1	4060.3	3880.9	3731.4	3613.8	3609.6	3776.7	4169.2	3390.2
30°	4798.7	4790.5	4654.0	4448.1	4210.4	4028.6	3859.1	3837.3	3919.7	4351.6	3448.4
32.5°	5313.0	5251.2	5084.1	4872.3	4598.1	4379.8	4179.2	4128.6	4139.2	4564.0	3538.4
35°	5961.4	5893.7	5658.3	5365.9	5059.4	4801.7	4579.9	4511.0	4485.1	4911.7	3690.2
37.5°	6380.3	6379.1	6231.4	5933.7	5604.8	5320.6	5079.4	4998.8	4946.4	5331.8	3925.6
40°	6391.4	6419.1	6438.5	6435.6	6201.4	5939.6	5725.4	5626.0	5504.2	5893.1	4229.8
42.5°	6048.4	6119.6	6290.8	6581.5	6720.3	6616.2	6435.6	6337.9	6156.7	6493.8	4600.5
45°	5584.8	5634.2	5933.7	6469.1	7001.6	7286.9	7149.3	6974.5	6735.6	7120.4	4932.9
47.5°	5377.1	5385.9	5579.5	6167.3	7022.8	7836.5	7920.0	7635.8	7261.6	7625.3	5192.9
50°	4756.4	4772.3	5039.4	5644.2	6774.5	8096.0	8694.3	8424.9	7835.3	8014.2	5287.7
52.5°	3584.9	3607.3	3946.2	4784.6	6092.0	7985.3	9248.6	9183.3	8463.7	8204.2	5293.0
55°	2115.2	2144.6	2468.2	3220.7	4791.7	7281.7	9289.8	9529.8	8959.7	8316.6	5284.7
57.5°	987.9	1008.5	1193.8	1659.2	2980.1	5754.8	8669.6	9292.1	9233.3	8376.0	5343.0
60°	524.8	530.7	575.4	718.4	1346.8	3649.1	7459.3	8390.7	8983.8	8458.4	5414.2
62.5°	401.3	403.0	400.7	417.7	566.0	1619.8	5638.3	6898.0	7979.5	8396.6	5335.3
65°	347.7	350.7	334.2	330.1	363.0	577.8	3349.6	4917.0	6270.2	7562.9	4798.1
67.5°	311.8	313.0	293.0	275.9	281.8	312.4	1321.5	2691.8	4150.4	5543.6	3477.8
70°	287.1	285.9	264.2	237.1	229.5	213.6	420.1	986.7	1983.4	2811.2	1617.4
72.5°	254.2	254.8	244.2	208.9	190.6	149.4	194.8	287.7	591.9	766.1	378.9
75°	225.3	222.4	209.5	187.1	157.1	98.3	96.5	128.3	182.4	181.2	81.8
77.5°	163.0	160.0	164.2	153.6	120.6	63.5	48.2	61.8	74.1	71.8	22.9
80°	119.4	117.7	105.9	127.7	106.5	43.5	30.0	32.9	38.2	32.4	7.1
82.5°	81.8	81.2	74.7	70.6	60.6	26.5	18.8	20.6	24.7	18.2	3.5
85°	12.9	14.7	54.1	43.0	35.9	11.8	12.9	14.1	16.5	10.0	1.2
87.5°	0.0	0.0	25.3	22.4	7.1	4.7	7.6	8.2	8.2	5.3	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°	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5	2806.5
2.5°	2817.1	2758.3	2649.4	2537.0	2432.9	2308.8	2223.4	2159.3	2085.2	2065.2	2108.7
5°	2836.5	2725.3	2491.2	2236.4	1996.9	1731.6	1528.6	1368.0	1222.6	1173.2	1217.9
7.5°	2867.1	2701.8	2319.9	1900.4	1483.9	1069.7	786.1	599.5	480.7	445.4	464.2
10°	2897.7	2667.7	2121.7	1502.7	933.2	520.7	338.9	270.6	245.3	240.1	243.0
12.5°	2923.0	2621.8	1879.8	1068.5	498.9	278.9	221.8	210.6	207.1	207.1	208.3
15°	2938.3	2552.3	1593.3	679.6	287.1	210.6	193.6	190.0	190.0	190.6	191.8
17.5°	2936.5	2464.1	1279.7	411.3	214.8	186.5	176.5	173.6	173.0	174.2	174.7
20°	2914.8	2348.8	964.9	271.2	187.1	170.0	160.0	154.7	154.2	155.3	156.5
22.5°	2873.6	2206.4	690.2	208.9	168.9	154.2	141.8	137.1	137.1	138.3	139.4
25°	2823.6	2032.2	471.9	177.1	152.4	137.1	125.3	121.2	122.4	125.3	125.9
27.5°	2761.2	1836.3	320.7	151.8	132.4	120.0	111.2	108.3	111.2	115.3	116.5
30°	2707.7	1632.1	228.9	131.2	112.4	103.6	98.3	98.3	102.4	110.0	111.8
32.5°	2666.5	1434.4	176.5	115.9	97.7	90.0	87.1	90.0	96.5	104.1	105.9
35°	2661.2	1271.5	149.4	103.6	87.1	79.4	78.3	83.5	90.0	95.9	97.1
37.5°	2701.8	1120.8	134.7	93.6	77.7	70.6	69.4	75.9	82.4	89.4	91.2
40°	2778.9	1002.6	124.1	84.1	70.0	62.4	60.0	64.7	73.5	83.0	85.3
42.5°	2878.9	904.9	112.4	74.7	62.4	51.8	48.8	54.1	63.5	73.5	76.5
45°	2974.2	820.8	99.4	64.1	52.4	40.0	38.8	45.9	50.6	60.6	63.0
47.5°	3026.6	746.6	88.3	52.4	40.6	32.4	32.4	34.1	38.8	50.6	53.0
50°	3008.9	687.2	76.5	38.8	28.2	24.7	24.7	24.1	31.2	40.6	42.4
52.5°	2973.6	653.1	65.9	30.0	19.4	17.7	15.9	17.7	21.8	25.9	26.5
55°	2968.3	647.2	55.3	24.1	13.5	11.8	8.8	8.8	8.8	8.2	7.1
57.5°	3009.5	656.6	46.5	19.4	10.0	7.6	4.7	0.0	0.0	0.0	0.0
60°	3051.9	666.6	40.0	13.5	7.1	4.1	0.6	0.0	0.0	0.0	0.0
62.5°	2981.3	644.3	33.5	8.2	5.3	1.8	0.0	0.0	0.0	0.0	0.0
65°	2618.8	548.4	26.5	5.9	3.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1862.8	367.1	17.7	3.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	850.2	153.6	11.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	181.8	47.7	7.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	37.1	34.7	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.8	54.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.1	39.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.2	5.9	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)