

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: P193461

Luminaire Tested: **GLEON-AF-03-LED-E1-AFL-8030-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193461
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-8030-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 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: 9808 lumens
Efficiency: N/A
Efficacy: 79.1 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): 124
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

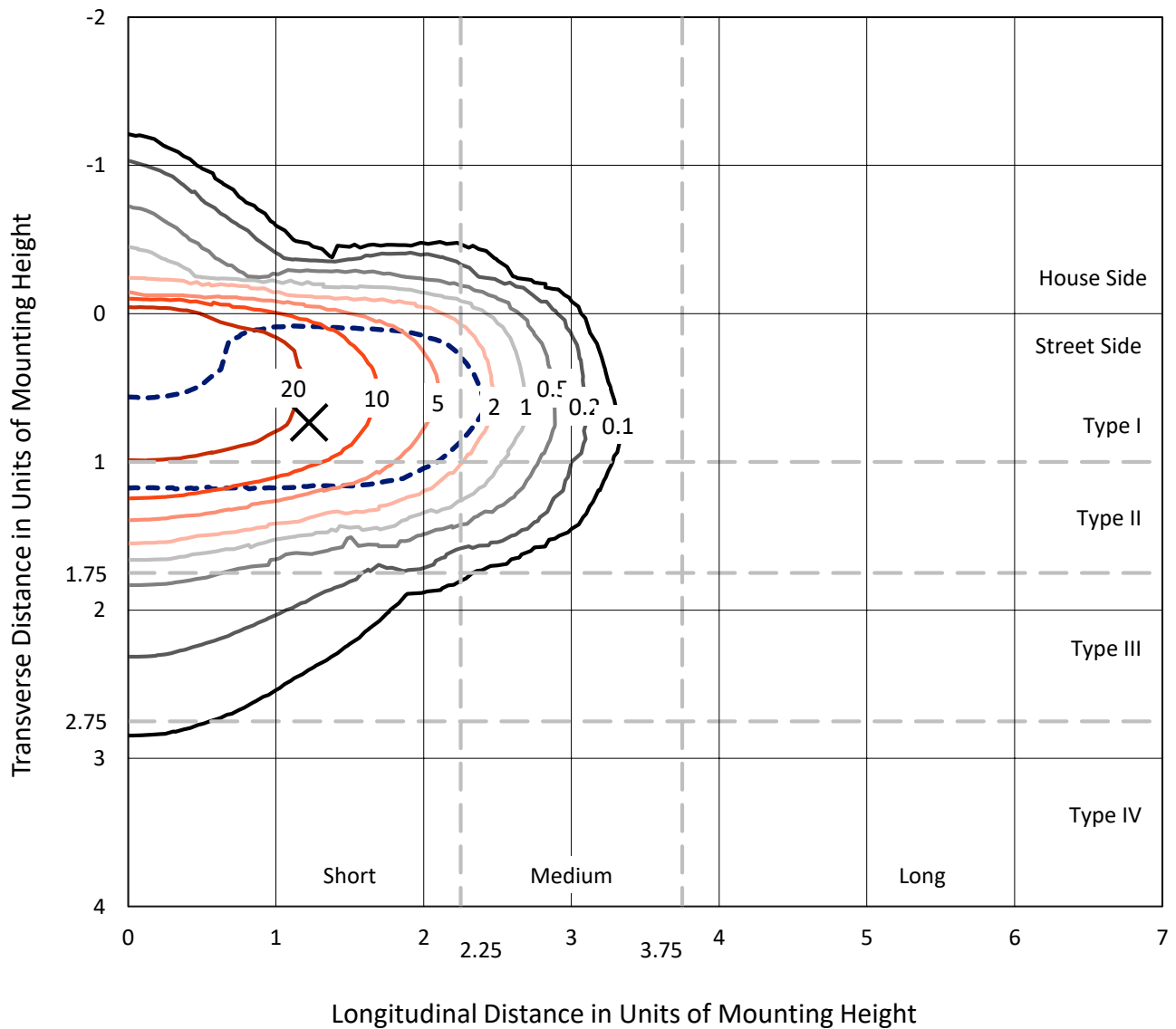


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

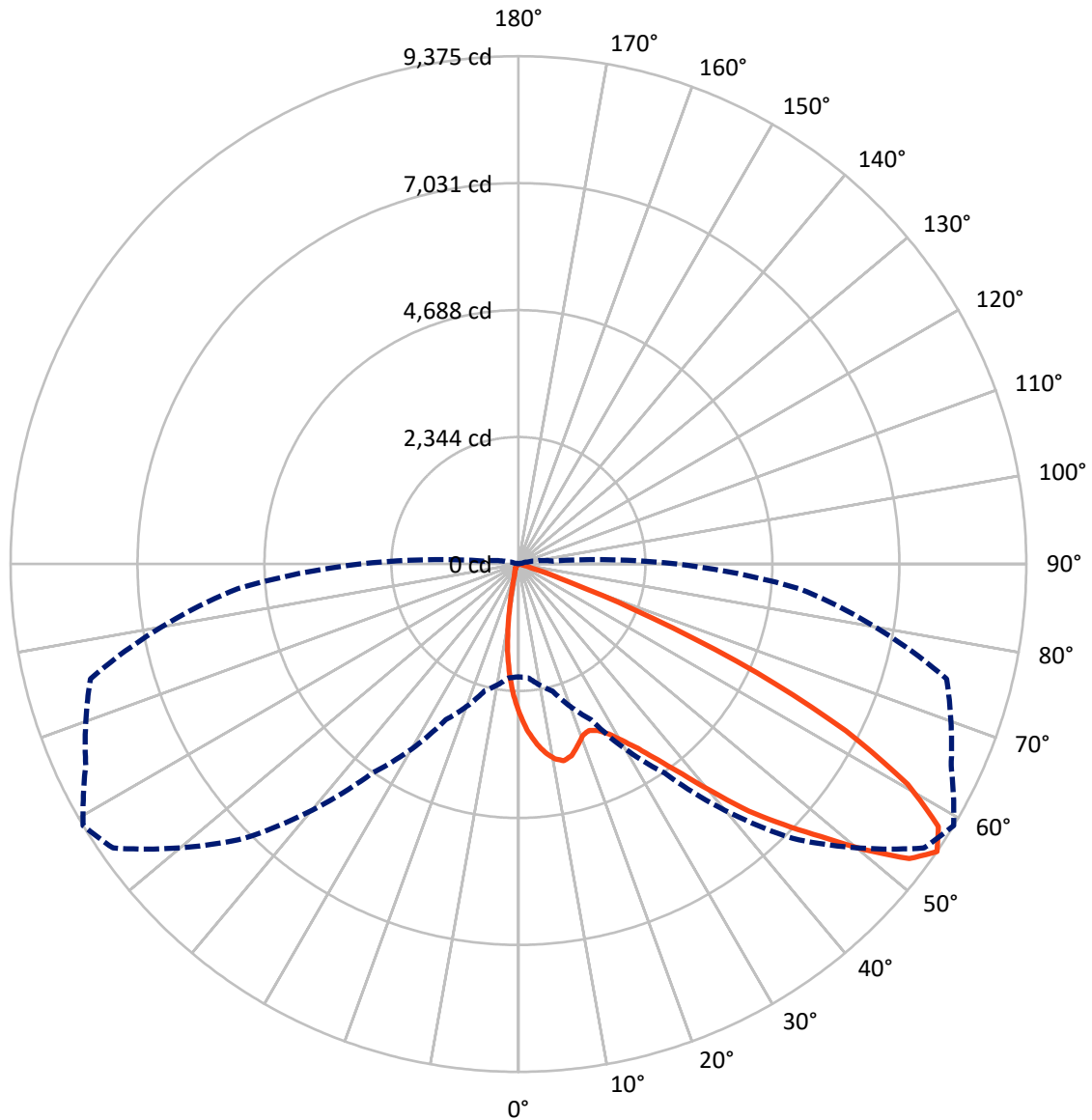


Based on 10 foot mounting height. Maximum calculated value = 34.3 fc
 Type II - Short - Full Cutoff

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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	547.8	0.0	547.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	9260.2	0.0	9260.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	9808.0	0.0	9808.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.3	2.4
10°-20°	553.7	5.6
20°-30°	942.2	9.6
30°-40°	1620.3	16.5
40°-50°	2501.6	25.5
50°-60°	2514.9	25.6
60°-70°	1289.7	13.1
70°-80°	139.8	1.4
80°-90°	14.6	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°	9808.0	100.0
0°-180°	9808.0	100.0

Coefficient of Utilization



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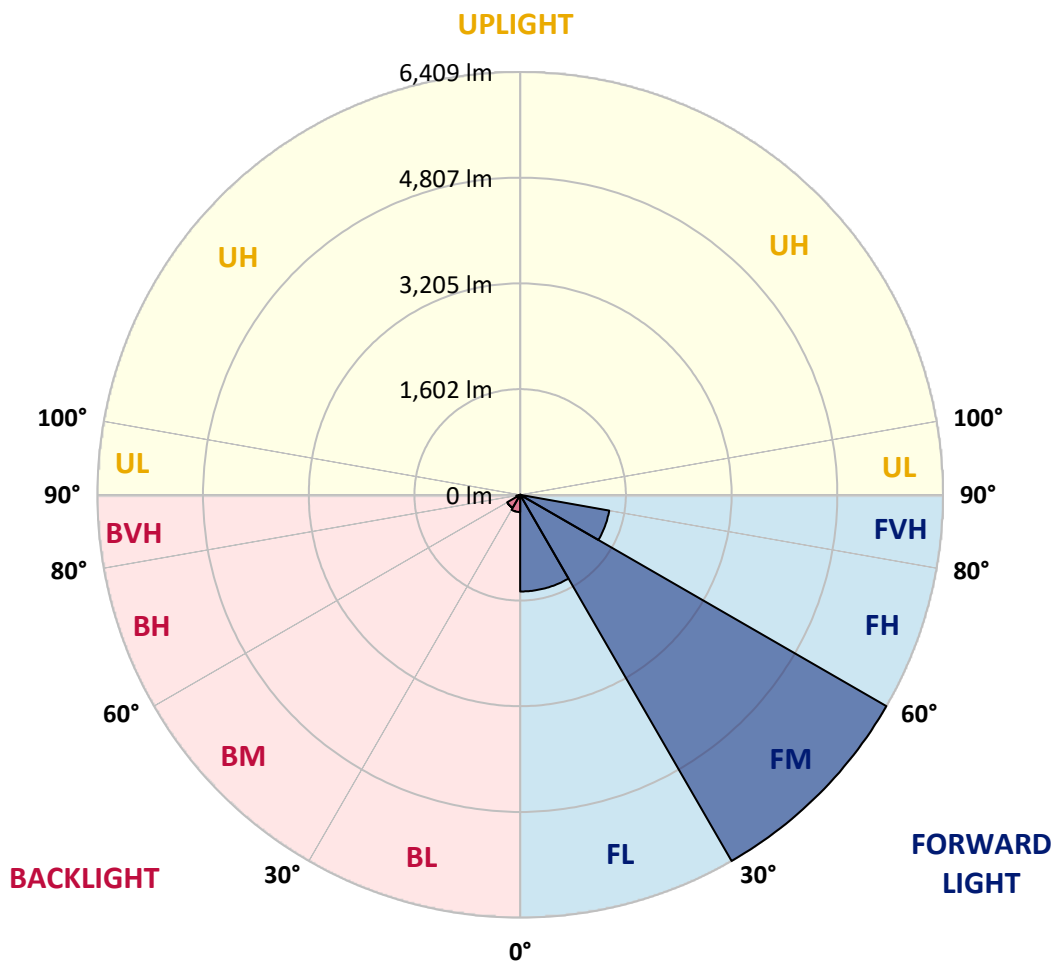
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1465.6	14.9			
FM	(30°-60°)	6409.5	65.3			
FH	(60°-80°)	1370.7	14.0			G1/1800
FVH	(80°-90°)	14.3	0.1			G1/100
BL	(0°-30°)	261.5	2.7	B1/500		
BM	(30°-60°)	227.4	2.3	B1/1000		
BH	(60°-80°)	58.7	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°	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9
2.5°	3266.8	3232.1	3221.6	3214.7	3182.9	3142.9	3088.5	3063.1	3011.0	2927.0	2824.0
5°	3566.0	3559.7	3536.5	3523.8	3489.6	3432.9	3346.1	3304.4	3221.6	3080.4	2895.8
7.5°	3435.2	3475.2	3507.0	3560.3	3627.4	3625.1	3552.1	3508.7	3416.1	3229.8	2975.7
10°	2929.9	2962.3	3014.4	3135.4	3382.0	3599.6	3685.3	3654.0	3579.9	3366.9	3052.6
12.5°	2831.0	2827.5	2836.7	2872.0	3001.1	3311.4	3662.7	3725.8	3710.7	3492.5	3125.6
15°	2883.6	2879.6	2878.4	2890.6	2921.8	3052.6	3493.1	3674.3	3790.6	3608.9	3187.5
17.5°	3031.2	3013.9	3004.6	2994.8	2985.5	3017.9	3289.4	3530.2	3802.8	3710.7	3239.0
20°	3284.2	3255.2	3221.1	3165.5	3113.4	3097.2	3203.7	3382.0	3759.4	3788.3	3272.6
22.5°	3601.9	3564.9	3505.8	3404.6	3298.6	3237.3	3246.0	3335.1	3694.5	3872.8	3288.2
25°	3959.1	3911.6	3832.9	3692.2	3536.5	3427.7	3371.0	3402.2	3665.0	3971.8	3306.2
27.5°	4341.6	4289.0	4185.9	3994.4	3817.8	3670.8	3555.0	3551.0	3715.4	4101.4	3335.1
30°	4720.8	4712.7	4578.4	4375.8	4142.0	3963.1	3796.4	3775.0	3856.0	4280.9	3392.4
32.5°	5226.6	5165.9	5001.5	4793.1	4523.4	4308.7	4111.3	4061.5	4071.9	4489.8	3481.0
35°	5864.5	5797.9	5566.4	5278.7	4977.2	4723.7	4505.4	4437.7	4412.3	4831.9	3630.3
37.5°	6276.6	6275.4	6130.2	5837.3	5513.7	5234.2	4996.9	4917.6	4866.0	5245.2	3861.8
40°	6287.6	6314.8	6333.9	6331.0	6100.6	5843.1	5632.4	5534.6	5414.8	5797.3	4161.1
42.5°	5950.2	6020.2	6188.6	6474.6	6611.2	6508.7	6331.0	6234.9	6056.7	6388.3	4525.7
45°	5494.1	5542.7	5837.3	6364.0	6887.8	7168.5	7033.1	6861.2	6626.2	7004.7	4852.7
47.5°	5289.7	5298.4	5488.8	6067.1	6908.7	7709.2	7791.3	7511.8	7143.7	7501.4	5108.6
50°	4679.1	4694.7	4957.5	5552.5	6664.4	7964.4	8553.1	8288.0	7708.0	7884.0	5201.8
52.5°	3526.7	3548.7	3882.1	4706.9	5993.0	7855.6	9098.3	9034.0	8326.2	8070.9	5207.0
55°	2080.8	2109.8	2428.1	3168.4	4713.8	7163.3	9138.8	9375.0	8814.1	8181.5	5198.9
57.5°	971.8	992.1	1174.4	1632.2	2931.7	5661.3	8528.7	9141.1	9083.2	8239.9	5256.2
60°	516.3	522.1	566.1	706.7	1324.9	3589.8	7338.1	8254.4	8837.8	8321.0	5326.2
62.5°	394.7	396.5	394.2	411.0	556.8	1593.5	5546.7	6786.0	7849.8	8260.2	5248.6
65°	342.1	345.0	328.8	324.7	357.1	568.4	3295.2	4837.1	6168.4	7440.0	4720.2
67.5°	306.8	307.9	288.2	271.5	277.2	307.3	1300.0	2648.0	4082.9	5453.5	3421.3
70°	282.5	281.3	259.9	233.3	225.7	210.1	413.3	970.7	1951.2	2765.5	1591.1
72.5°	250.0	250.6	240.2	205.5	187.5	147.0	191.6	283.0	582.3	753.6	372.8
75°	221.7	218.8	206.1	184.1	154.5	96.7	94.9	126.2	179.4	178.3	80.5
77.5°	160.3	157.4	161.5	151.1	118.7	62.5	47.5	60.8	72.9	70.6	22.6
80°	117.5	115.8	104.2	125.6	104.8	42.8	29.5	32.4	37.6	31.8	6.9
82.5°	80.5	79.9	73.5	69.5	59.6	26.0	18.5	20.3	24.3	17.9	3.5
85°	12.7	14.5	53.3	42.3	35.3	11.6	12.7	13.9	16.2	9.8	1.2
87.5°	0.0	0.0	24.9	22.0	6.9	4.6	7.5	8.1	8.1	5.2	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9	2760.9
2.5°	2771.3	2713.5	2606.4	2495.8	2393.4	2271.2	2187.3	2124.2	2051.3	2031.6	2074.4
5°	2790.4	2681.0	2450.7	2200.1	1964.5	1703.4	1503.7	1345.7	1202.8	1154.1	1198.1
7.5°	2820.5	2657.9	2282.2	1869.6	1459.8	1052.3	773.3	589.8	472.9	438.2	456.7
10°	2850.6	2624.3	2087.2	1478.3	918.0	512.2	333.4	266.3	241.4	236.2	239.0
12.5°	2875.5	2579.2	1849.3	1051.1	490.8	274.4	218.2	207.2	203.7	203.7	204.9
15°	2890.6	2510.9	1567.4	668.5	282.5	207.2	190.4	187.0	187.0	187.5	188.7
17.5°	2888.8	2424.1	1258.9	404.6	211.3	183.5	173.6	170.7	170.2	171.3	171.9
20°	2867.4	2310.6	949.2	266.8	184.1	167.3	157.4	152.2	151.6	152.8	154.0
22.5°	2826.9	2170.5	678.9	205.5	166.1	151.6	139.5	134.9	134.9	136.0	137.2
25°	2777.7	1999.2	464.2	174.2	149.9	134.9	123.3	119.2	120.4	123.3	123.9
27.5°	2716.3	1806.5	315.5	149.3	130.2	118.1	109.4	106.5	109.4	113.4	114.6
30°	2663.7	1605.6	225.2	129.1	110.6	101.9	96.7	96.7	100.7	108.2	110.0
32.5°	2623.2	1411.1	173.6	114.0	96.1	88.6	85.7	88.6	94.9	102.4	104.2
35°	2618.0	1250.8	147.0	101.9	85.7	78.1	77.0	82.2	88.6	94.3	95.5
37.5°	2657.9	1102.6	132.5	92.0	76.4	69.5	68.3	74.7	81.0	88.0	89.7
40°	2733.7	986.3	122.1	82.8	68.9	61.4	59.0	63.7	72.4	81.6	83.9
42.5°	2832.1	890.2	110.6	73.5	61.4	50.9	48.0	53.3	62.5	72.4	75.2
45°	2925.9	807.4	97.8	63.1	51.5	39.4	38.2	45.1	49.8	59.6	61.9
47.5°	2977.4	734.5	86.8	51.5	39.9	31.8	31.8	33.6	38.2	49.8	52.1
50°	2960.0	676.0	75.2	38.2	27.8	24.3	24.3	23.7	30.7	39.9	41.7
52.5°	2925.3	642.5	64.8	29.5	19.1	17.4	15.6	17.4	21.4	25.5	26.0
55°	2920.1	636.7	54.4	23.7	13.3	11.6	8.7	8.7	8.7	8.1	6.9
57.5°	2960.6	646.0	45.7	19.1	9.8	7.5	4.6	0.0	0.0	0.0	0.0
60°	3002.3	655.8	39.4	13.3	6.9	4.1	0.6	0.0	0.0	0.0	0.0
62.5°	2932.8	633.8	33.0	8.1	5.2	1.7	0.0	0.0	0.0	0.0	0.0
65°	2576.3	539.4	26.0	5.8	3.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1832.5	361.2	17.4	3.5	0.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	836.4	151.1	11.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	178.9	46.9	7.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	36.5	34.1	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.6	53.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.9	38.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.2	5.8	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)