

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: P193452

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-8030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193452
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-04-LED-E1-AFL-8030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 10568 lumens
Efficiency: N/A
Efficacy: 81.9 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): 129
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

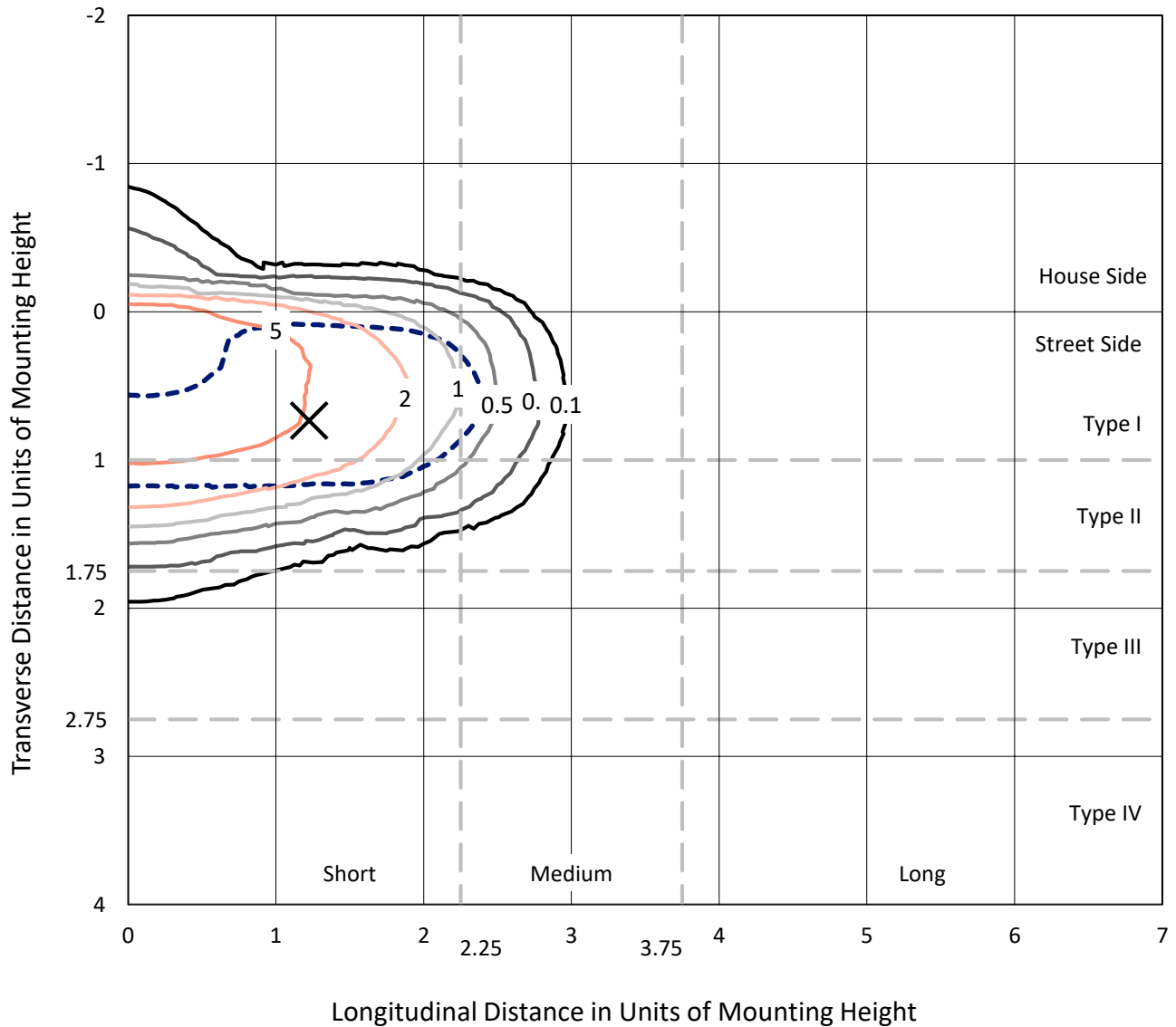


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

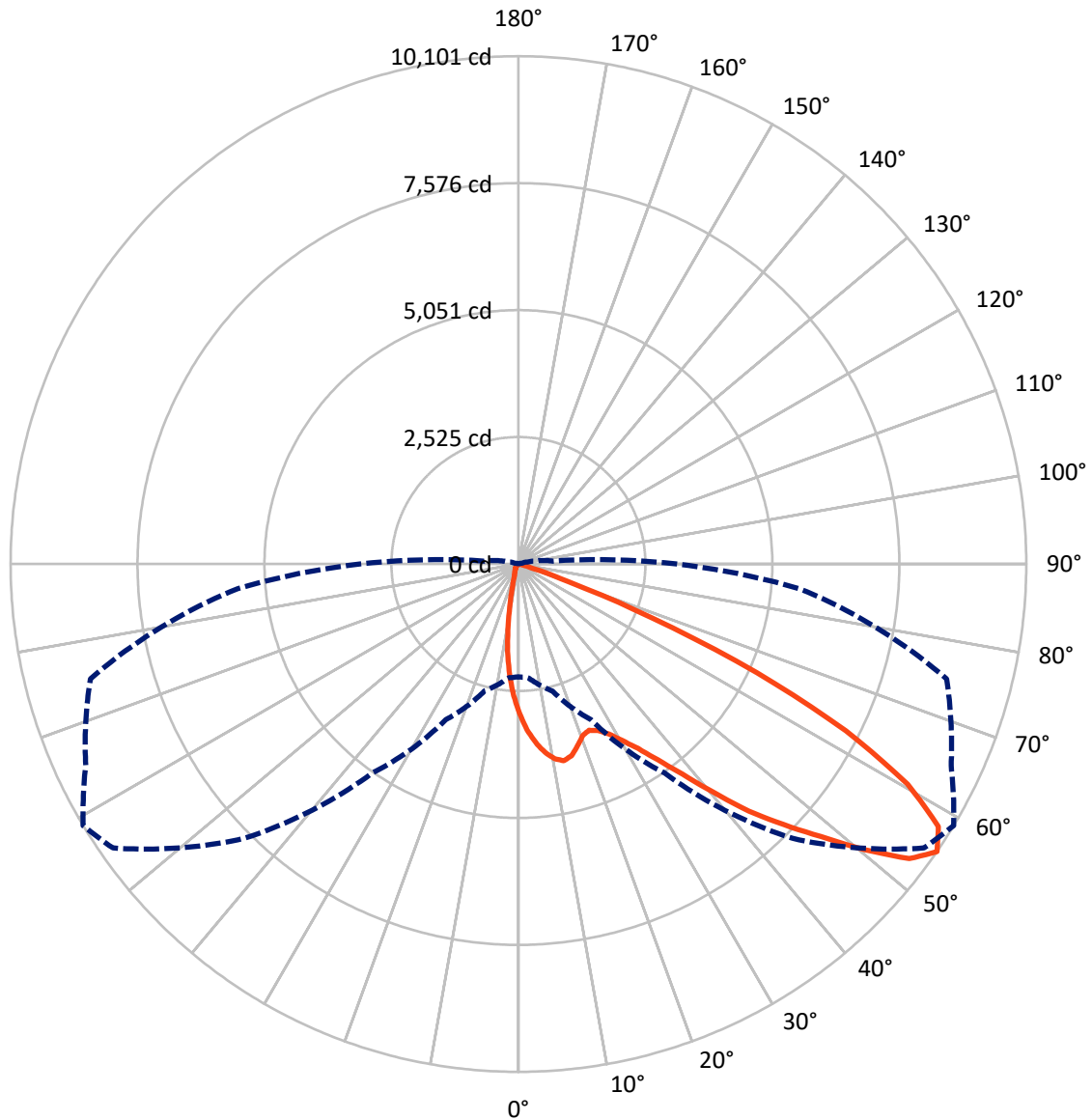


Based on 20 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - Full Cutoff

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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	590.3	0.0	590.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	9977.7	0.0	9977.7
	% Fixture	94.4	0.0	94.4
Total	Lumens	10568.0	0.0	10568.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.2	2.4
10°-20°	596.6	5.6
20°-30°	1015.2	9.6
30°-40°	1745.9	16.5
40°-50°	2695.5	25.5
50°-60°	2709.8	25.6
60°-70°	1389.6	13.1
70°-80°	150.6	1.4
80°-90°	15.7	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°	10568.0	100.0
0°-180°	10568.0	100.0



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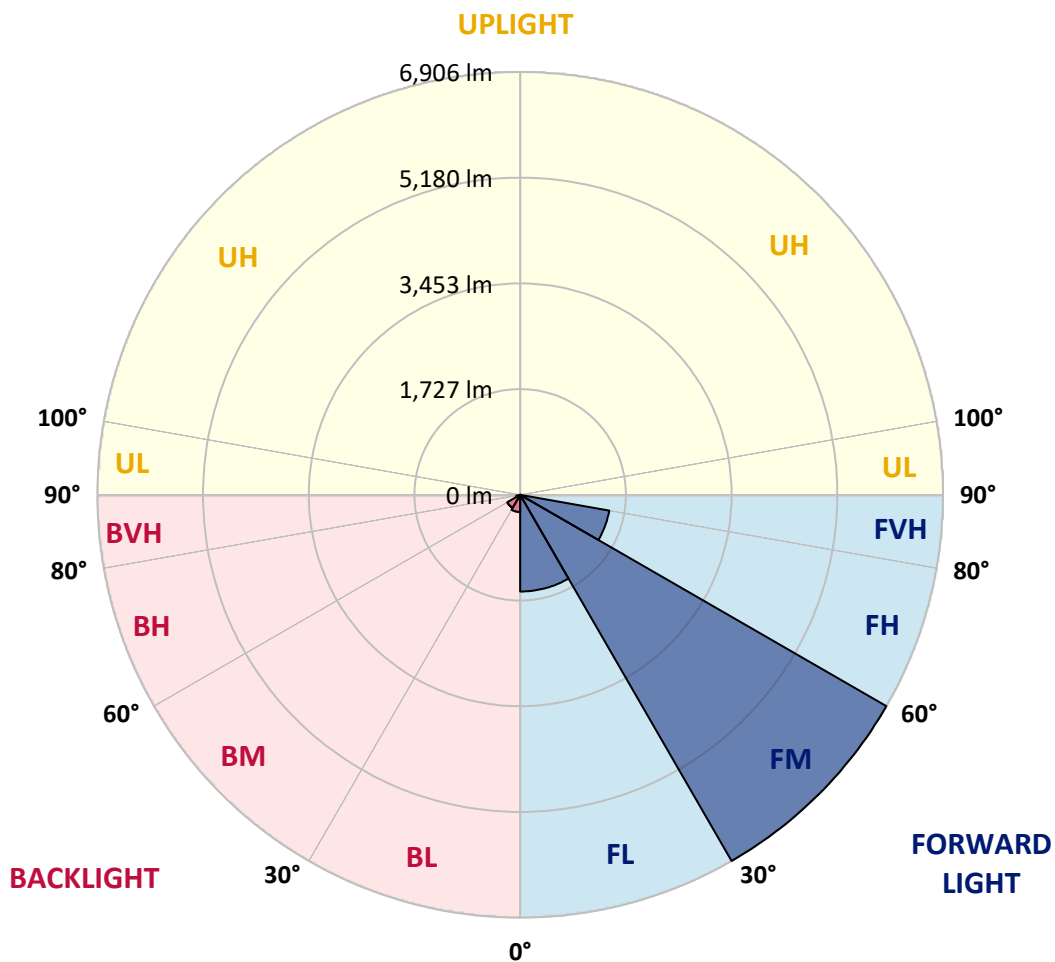
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1579.2	14.9			
FM	(30°-60°)	6906.1	65.3			
FH	(60°-80°)	1476.9	14.0			G1/1800
FVH	(80°-90°)	15.4	0.1			G1/100
BL	(0°-30°)	281.7	2.7	B1/500		
BM	(30°-60°)	245.0	2.3	B1/1000		
BH	(60°-80°)	63.2	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°	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9
2.5°	3519.9	3482.5	3471.3	3463.8	3429.5	3386.5	3327.8	3300.4	3244.3	3153.8	3042.8
5°	3842.4	3835.5	3810.6	3796.8	3760.0	3698.9	3605.4	3560.5	3471.3	3319.1	3120.2
7.5°	3701.4	3744.4	3778.8	3836.1	3908.5	3906.0	3827.4	3780.6	3680.8	3480.0	3206.2
10°	3157.0	3191.9	3248.0	3378.4	3644.0	3878.5	3970.8	3937.2	3857.3	3627.8	3289.2
12.5°	3050.3	3046.6	3056.6	3094.6	3233.7	3568.0	3946.5	4014.5	3998.3	3763.2	3367.8
15°	3107.1	3102.7	3101.5	3114.6	3148.2	3289.2	3763.8	3959.0	4084.3	3888.5	3434.5
17.5°	3266.1	3247.4	3237.4	3226.8	3216.8	3251.8	3544.3	3803.7	4097.4	3998.3	3490.0
20°	3538.6	3507.5	3470.7	3410.8	3354.7	3337.2	3452.0	3644.0	4050.7	4081.8	3526.2
22.5°	3881.0	3841.1	3777.5	3668.4	3554.2	3488.1	3497.5	3593.5	3980.8	4172.9	3543.0
25°	4265.8	4214.7	4129.9	3978.3	3810.6	3693.3	3632.2	3665.9	3949.0	4279.5	3562.3
27.5°	4678.1	4621.3	4510.3	4303.9	4113.7	3955.2	3830.5	3826.1	4003.3	4419.2	3593.5
30°	5086.6	5077.8	4933.1	4714.9	4462.9	4270.2	4090.6	4067.5	4154.8	4612.6	3655.3
32.5°	5631.6	5566.2	5389.0	5164.5	4873.9	4642.5	4429.9	4376.2	4387.4	4837.7	3750.7
35°	6318.9	6247.2	5997.7	5687.8	5362.8	5089.7	4854.6	4781.6	4754.2	5206.3	3911.6
37.5°	6763.0	6761.7	6605.2	6289.6	5941.0	5639.7	5384.0	5298.6	5243.1	5651.6	4161.1
40°	6774.8	6804.1	6824.7	6821.6	6573.4	6295.8	6068.8	5963.4	5834.3	6246.6	4483.5
42.5°	6411.2	6486.7	6668.2	6976.3	7123.4	7013.0	6821.6	6718.1	6526.0	6883.3	4876.4
45°	5919.8	5972.2	6289.6	6857.1	7421.5	7724.0	7578.1	7392.9	7139.6	7547.5	5228.8
47.5°	5699.6	5709.0	5914.2	6537.2	7444.0	8306.5	8395.1	8093.8	7697.2	8082.6	5504.4
50°	5041.7	5058.5	5341.6	5982.8	7180.8	8581.5	9215.8	8930.2	8305.3	8494.9	5604.8
52.5°	3800.0	3823.7	4182.9	5071.6	6457.4	8464.3	9803.3	9734.1	8971.3	8696.3	5610.4
55°	2242.1	2273.2	2616.2	3413.9	5079.1	7718.4	9847.0	10101.4	9497.1	8815.4	5601.7
57.5°	1047.1	1069.0	1265.4	1758.7	3158.8	6100.0	9189.6	9849.4	9787.1	8878.4	5663.4
60°	556.3	562.5	609.9	761.5	1427.6	3867.9	7906.7	8894.0	9522.7	8965.7	5738.9
62.5°	425.3	427.2	424.7	442.8	600.0	1716.9	5976.5	7311.8	8458.1	8900.2	5655.3
65°	368.6	371.7	354.2	349.9	384.8	612.4	3550.5	5211.9	6646.3	8016.5	5085.9
67.5°	330.5	331.8	310.6	292.5	298.7	331.2	1400.7	2853.2	4399.3	5876.1	3686.4
70°	304.3	303.1	280.0	251.3	243.2	226.4	445.3	1045.9	2102.4	2979.8	1714.4
72.5°	269.4	270.0	258.8	221.4	202.1	158.4	206.4	305.0	627.4	812.0	401.6
75°	238.9	235.7	222.0	198.3	166.5	104.2	102.3	136.0	193.3	192.1	86.7
77.5°	172.8	169.6	174.0	162.8	127.9	67.4	51.1	65.5	78.6	76.1	24.3
80°	126.6	124.7	112.3	135.3	112.9	46.2	31.8	34.9	40.5	34.3	7.5
82.5°	86.7	86.1	79.2	74.8	64.2	28.1	20.0	21.8	26.2	19.3	3.7
85°	13.7	15.6	57.4	45.5	38.0	12.5	13.7	15.0	17.5	10.6	1.2
87.5°	0.0	0.0	26.8	23.7	7.5	5.0	8.1	8.7	8.7	5.6	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°	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9	2974.9
2.5°	2986.1	2923.7	2808.3	2689.2	2578.8	2447.2	2356.8	2288.8	2210.2	2189.0	2235.2
5°	3006.7	2888.8	2640.6	2370.5	2116.7	1835.4	1620.3	1450.0	1296.0	1243.6	1291.0
7.5°	3039.1	2863.8	2459.1	2014.4	1572.9	1133.8	833.2	635.5	509.5	472.1	492.1
10°	3071.5	2827.7	2248.9	1592.8	989.1	551.9	359.2	286.9	260.1	254.5	257.6
12.5°	3098.3	2779.0	1992.6	1132.6	528.9	295.6	235.1	223.3	219.5	219.5	220.8
15°	3114.6	2705.4	1688.9	720.3	304.3	223.3	205.2	201.4	201.4	202.1	203.3
17.5°	3112.7	2611.9	1356.5	435.9	227.6	197.7	187.1	184.0	183.4	184.6	185.2
20°	3089.6	2489.6	1022.8	287.5	198.3	180.2	169.6	164.0	163.4	164.6	165.9
22.5°	3046.0	2338.7	731.6	221.4	179.0	163.4	150.3	145.3	145.3	146.6	147.8
25°	2992.9	2154.1	500.2	187.7	161.5	145.3	132.8	128.5	129.7	132.8	133.5
27.5°	2926.8	1946.4	339.9	160.9	140.3	127.2	117.9	114.8	117.9	122.2	123.5
30°	2870.1	1730.0	242.6	139.1	119.1	109.8	104.2	104.2	108.5	116.6	118.5
32.5°	2826.4	1520.5	187.1	122.9	103.5	95.4	92.3	95.4	102.3	110.4	112.3
35°	2820.8	1347.7	158.4	109.8	92.3	84.2	82.9	88.6	95.4	101.7	102.9
37.5°	2863.8	1188.1	142.8	99.2	82.3	74.8	73.6	80.5	87.3	94.8	96.7
40°	2945.5	1062.7	131.6	89.2	74.2	66.1	63.6	68.6	78.0	87.9	90.4
42.5°	3051.6	959.2	119.1	79.2	66.1	54.9	51.8	57.4	67.4	78.0	81.1
45°	3152.6	870.0	105.4	68.0	55.5	42.4	41.2	48.6	53.6	64.2	66.7
47.5°	3208.1	791.4	93.5	55.5	43.0	34.3	34.3	36.2	41.2	53.6	56.1
50°	3189.4	728.4	81.1	41.2	29.9	26.2	26.2	25.6	33.1	43.0	44.9
52.5°	3152.0	692.3	69.8	31.8	20.6	18.7	16.8	18.7	23.1	27.4	28.1
55°	3146.4	686.0	58.6	25.6	14.3	12.5	9.4	9.4	9.4	8.7	7.5
57.5°	3190.0	696.0	49.3	20.6	10.6	8.1	5.0	0.0	0.0	0.0	0.0
60°	3234.9	706.6	42.4	14.3	7.5	4.4	0.6	0.0	0.0	0.0	0.0
62.5°	3160.1	682.9	35.5	8.7	5.6	1.9	0.0	0.0	0.0	0.0	0.0
65°	2775.9	581.3	28.1	6.2	3.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1974.5	389.2	18.7	3.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	901.2	162.8	11.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	192.7	50.5	8.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	39.3	36.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.5	58.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.5	41.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.2	6.2	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)