

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: P193472

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193472
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-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 16039 lumens
Efficiency: N/A
Efficacy: 71.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 225
Input Voltage (V): NR
Input Current (A_{in}): 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

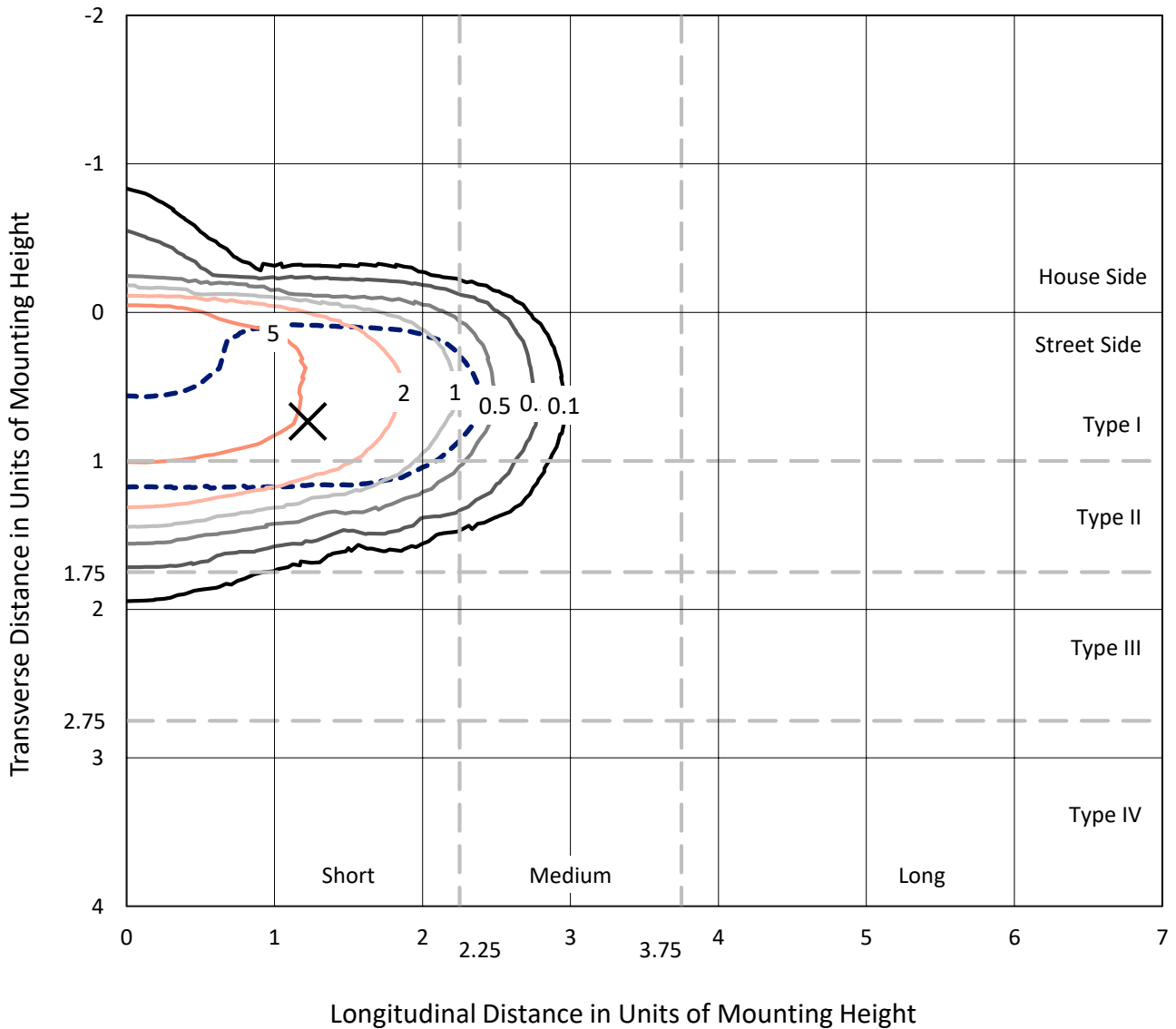


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

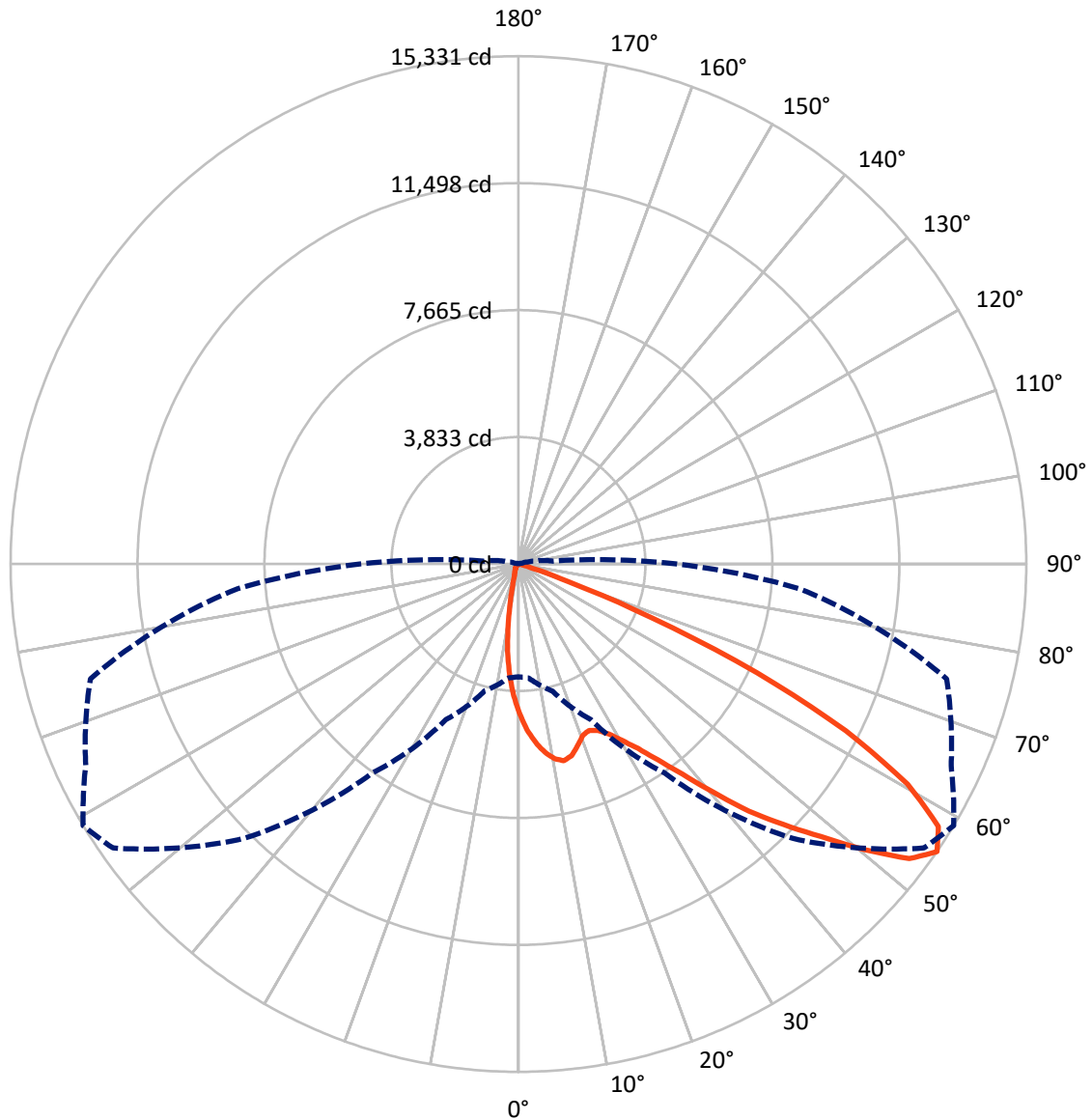


Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - Full Cutoff

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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
House Side	Lumens	895.9	0.0	895.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	15143.1	0.0	15143.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	16039.0	0.0	16039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.2	2.4
10°-20°	905.5	5.6
20°-30°	1540.7	9.6
30°-40°	2649.7	16.5
40°-50°	4090.9	25.5
50°-60°	4112.6	25.6
60°-70°	2109.0	13.1
70°-80°	228.6	1.4
80°-90°	23.9	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°	16039.0	100.0
0°-180°	16039.0	100.0

Coefficient of Utilization



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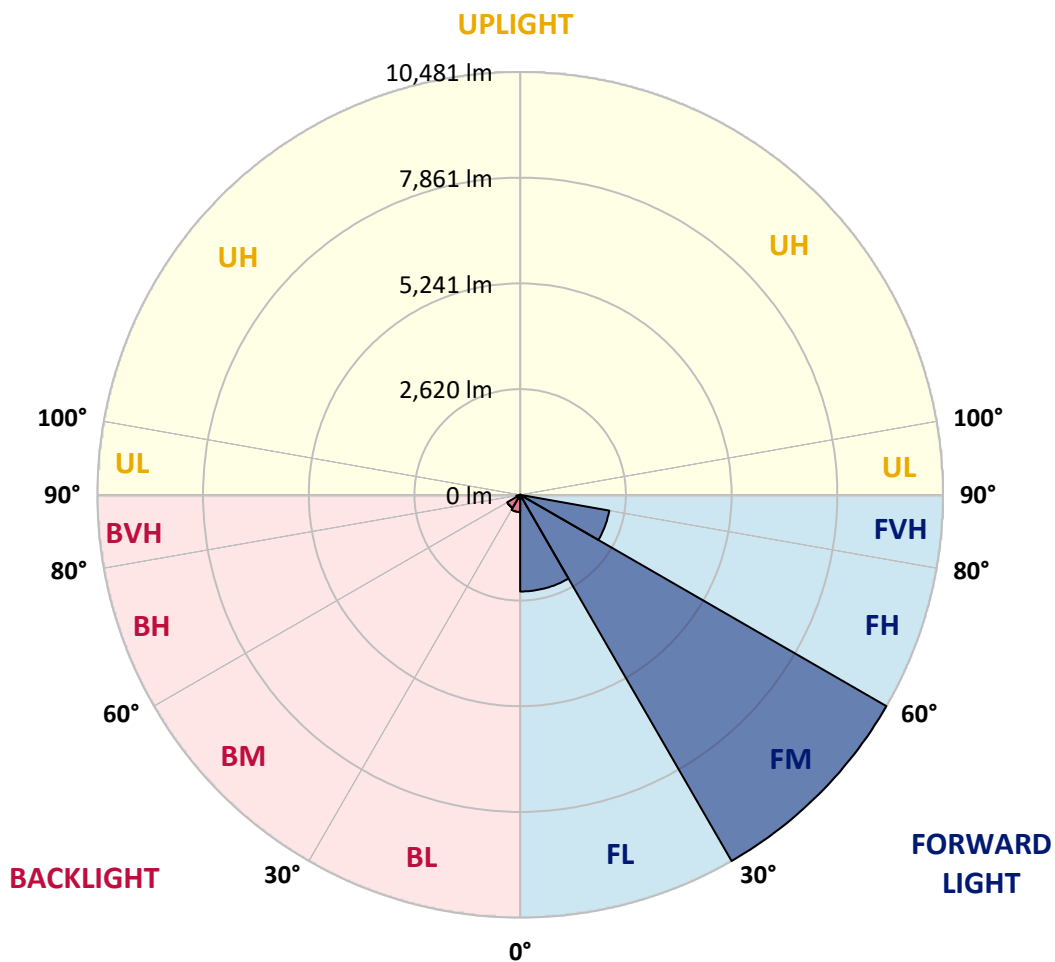
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2396.8	14.9			
FM	(30°-60°)	10481.4	65.3			
FH	(60°-80°)	2241.6	14.0			G2/5000
FVH	(80°-90°)	23.4	0.1			G1/100
BL	(0°-30°)	427.6	2.7	B1/500		
BM	(30°-60°)	371.8	2.3	B1/1000		
BH	(60°-80°)	96.0	0.6	B0/110		G0/110
BVH	(80°-90°)	0.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	4514.9	4514.9	4514.9	4514.9	4514.9	4514.9	4514.9	4514.9	4514.9	4514.9	4514.9
2.5°	5342.2	5285.4	5268.4	5257.0	5204.9	5139.6	5050.7	5009.0	4923.8	4786.6	4618.1
5°	5831.5	5821.1	5783.3	5762.4	5706.6	5613.8	5471.9	5403.7	5268.4	5037.4	4735.5
7.5°	5617.6	5682.9	5735.0	5822.1	5931.9	5928.1	5808.8	5737.8	5586.4	5281.6	4866.1
10°	4791.3	4844.3	4929.5	5127.3	5530.5	5886.4	6026.5	5975.4	5854.3	5505.9	4992.0
12.5°	4629.5	4623.8	4638.9	4696.7	4907.7	5415.1	5989.6	6092.8	6068.2	5711.3	5111.2
15°	4715.6	4709.0	4707.1	4726.9	4778.1	4992.0	5712.3	6008.5	6198.8	5901.6	5212.5
17.5°	4956.9	4928.6	4913.4	4897.3	4882.2	4935.2	5379.1	5772.9	6218.7	6068.2	5296.7
20°	5370.6	5323.3	5267.4	5176.5	5091.4	5064.9	5239.0	5530.5	6147.7	6195.0	5351.6
22.5°	5890.2	5829.6	5733.1	5567.5	5394.2	5293.9	5308.1	5453.9	6041.7	6333.2	5377.2
25°	6474.2	6396.6	6267.9	6037.9	5783.3	5605.3	5512.6	5563.7	5993.4	6495.0	5406.5
27.5°	7099.9	7013.7	6845.3	6532.0	6243.3	6002.9	5813.6	5806.9	6075.7	6707.1	5453.9
30°	7719.9	7706.6	7487.0	7155.7	6773.3	6480.9	6208.3	6173.2	6305.7	7000.5	5547.6
32.5°	8547.1	8447.7	8178.9	7838.2	7397.1	7045.9	6723.2	6641.8	6658.8	7342.2	5692.4
35°	9590.2	9481.3	9102.7	8632.3	8139.2	7724.6	7367.7	7257.0	7215.4	7901.6	5936.6
37.5°	10264.1	10262.2	10024.6	9545.7	9016.6	8559.4	8171.3	8041.7	7957.4	8577.4	6315.2
40°	10282.1	10326.6	10357.8	10353.1	9976.4	9555.2	9210.6	9050.7	8854.7	9480.4	6804.6
42.5°	9730.3	9844.8	10120.2	10587.8	10811.2	10643.7	10353.1	10196.0	9904.4	10446.8	7400.9
45°	8984.4	9063.9	9545.7	10407.0	11263.6	11722.7	11501.2	11220.1	10835.8	11454.8	7935.7
47.5°	8650.3	8664.5	8975.9	9921.5	11297.7	12606.8	12741.2	12284.0	11682.0	12267.0	8354.0
50°	7651.7	7677.3	8107.0	9080.0	10898.3	13024.2	13986.8	13553.3	12604.9	12892.6	8506.4
52.5°	5767.2	5803.1	6348.3	7697.1	9800.3	12846.2	14878.4	14773.4	13615.8	13198.3	8514.9
55°	3402.8	3450.1	3970.7	5181.3	7708.5	11714.2	14944.7	15330.9	14413.7	13379.1	8501.7
57.5°	1589.2	1622.3	1920.5	2669.2	4794.1	9258.0	13947.0	14948.5	14853.8	13474.7	8595.4
60°	844.3	853.8	925.7	1155.7	2166.6	5870.3	12000.0	13498.4	14452.5	13607.2	8709.9
62.5°	645.5	648.4	644.6	672.0	910.6	2605.8	9070.5	11097.1	12836.8	13507.8	8583.1
65°	559.4	564.1	537.6	531.0	584.0	929.5	5388.6	7910.1	10087.1	12166.6	7718.9
67.5°	501.7	503.6	471.4	443.9	453.4	502.6	2125.9	4330.3	6676.8	8918.2	5594.9
70°	461.9	460.0	425.0	381.4	369.1	343.6	675.8	1587.3	3190.7	4522.5	2602.0
72.5°	408.9	409.8	392.8	336.0	306.7	240.4	313.3	462.9	952.2	1232.4	609.6
75°	362.5	357.8	337.0	301.0	252.7	158.1	155.2	206.3	293.4	291.5	131.6
77.5°	262.2	257.5	264.1	247.0	194.0	102.2	77.6	99.4	119.3	115.5	36.9
80°	192.1	189.3	170.4	205.4	171.3	70.0	48.3	53.0	61.5	52.1	11.4
82.5°	131.6	130.6	120.2	113.6	97.5	42.6	30.3	33.1	39.8	29.3	5.7
85°	20.8	23.7	87.1	69.1	57.7	18.9	20.8	22.7	26.5	16.1	1.9
87.5°	0.0	0.0	40.7	36.0	11.4	7.6	12.3	13.3	13.3	8.5	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°	4514.9	4514.9	4514.9	4514.9	4514.9	4514.9	4514.9	4514.9	4514.9	4514.9	4514.9
2.5°	4532.0	4437.3	4262.2	4081.4	3913.9	3714.2	3576.9	3473.7	3354.5	3322.3	3392.3
5°	4563.2	4384.3	4007.6	3597.7	3212.5	2785.6	2459.1	2200.7	1966.9	1887.4	1959.3
7.5°	4612.4	4346.4	3732.1	3057.3	2387.1	1720.8	1264.6	964.5	773.3	716.5	746.8
10°	4661.6	4291.5	3413.2	2417.4	1501.2	837.7	545.2	435.4	394.7	386.2	390.9
12.5°	4702.3	4217.7	3024.1	1718.9	802.7	448.7	356.8	338.9	333.2	333.2	335.1
15°	4726.9	4106.0	2563.2	1093.2	461.9	338.9	311.4	305.7	305.7	306.7	308.6
17.5°	4724.1	3964.0	2058.7	661.6	345.5	300.0	284.0	279.2	278.3	280.2	281.1
20°	4689.1	3778.5	1552.3	436.3	301.0	273.5	257.5	248.9	248.0	249.9	251.8
22.5°	4622.8	3549.5	1110.3	336.0	271.7	248.0	228.1	220.5	220.5	222.4	224.3
25°	4542.4	3269.3	759.1	284.9	245.1	220.5	201.6	195.0	196.9	201.6	202.6
27.5°	4442.0	2954.1	515.9	244.2	213.0	193.1	178.9	174.2	178.9	185.5	187.4
30°	4355.9	2625.7	368.2	211.1	180.8	166.6	158.1	158.1	164.7	177.0	179.8
32.5°	4289.6	2307.6	284.0	186.5	157.1	144.8	140.1	144.8	155.2	167.5	170.4
35°	4281.1	2045.4	240.4	166.6	140.1	127.8	125.9	134.4	144.8	154.3	156.2
37.5°	4346.4	1803.1	216.8	150.5	124.9	113.6	111.7	122.1	132.5	143.9	146.7
40°	4470.4	1612.9	199.7	135.4	112.6	100.3	96.5	104.1	118.3	133.5	137.2
42.5°	4631.3	1455.8	180.8	120.2	100.3	83.3	78.6	87.1	102.2	118.3	123.0
45°	4784.7	1320.4	160.0	103.2	84.2	64.4	62.5	73.8	81.4	97.5	101.3
47.5°	4868.9	1201.1	142.0	84.2	65.3	52.1	52.1	54.9	62.5	81.4	85.2
50°	4840.5	1105.5	123.0	62.5	45.4	39.8	39.8	38.8	50.2	65.3	68.1
52.5°	4783.7	1050.6	106.0	48.3	31.2	28.4	25.6	28.4	35.0	41.6	42.6
55°	4775.2	1041.2	89.0	38.8	21.8	18.9	14.2	14.2	14.2	13.3	11.4
57.5°	4841.5	1056.3	74.8	31.2	16.1	12.3	7.6	0.0	0.0	0.0	0.0
60°	4909.6	1072.4	64.4	21.8	11.4	6.6	0.9	0.0	0.0	0.0	0.0
62.5°	4796.0	1036.4	54.0	13.3	8.5	2.8	0.0	0.0	0.0	0.0	0.0
65°	4213.0	882.2	42.6	9.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2996.7	590.6	28.4	5.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	1367.7	247.0	18.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	292.5	76.7	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	59.6	55.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	18.9	88.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.4	63.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.9	9.5	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)