

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: P191732

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191732
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-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 19656 lumens
Efficiency: N/A
Efficacy: 87.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 225
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

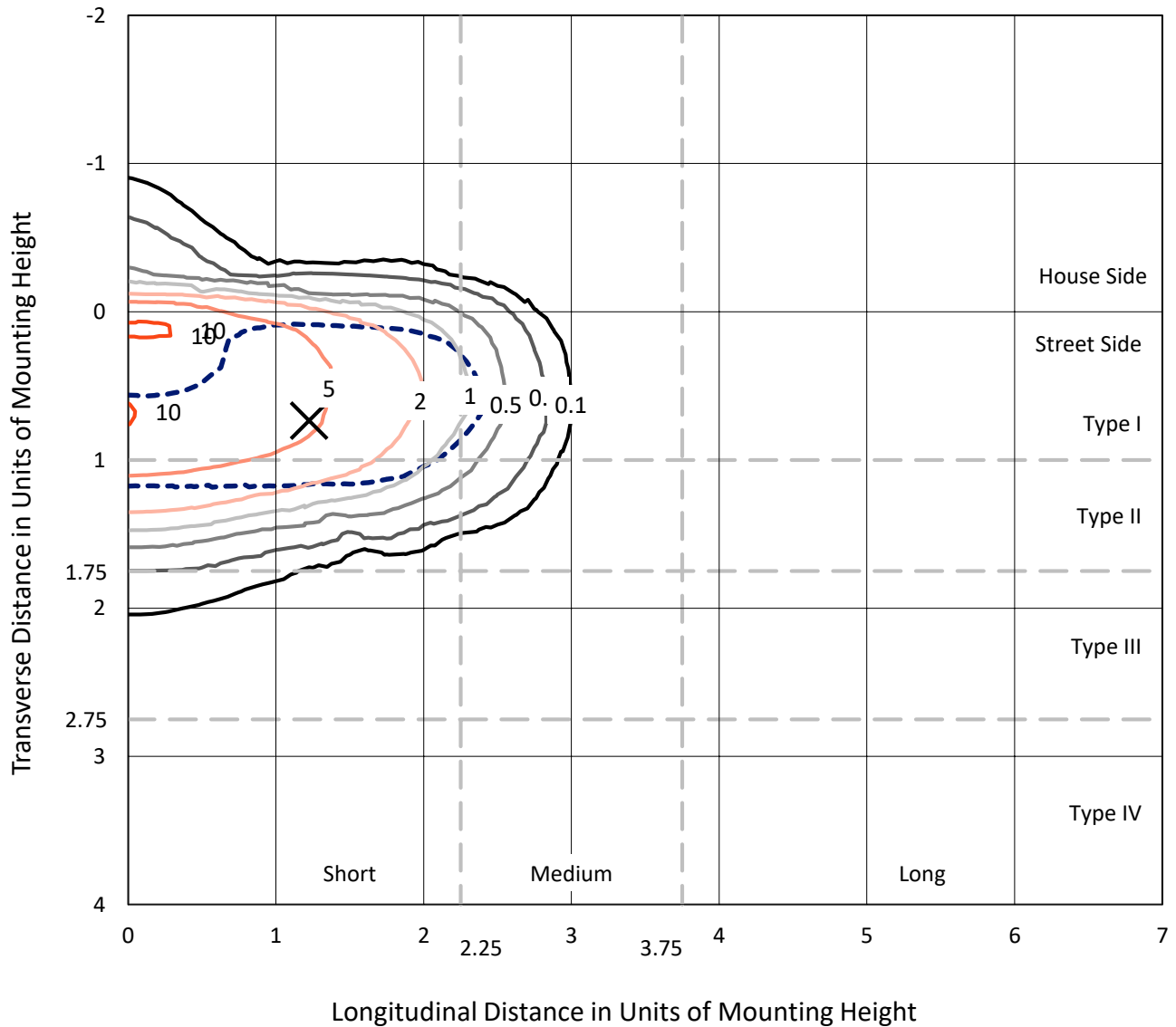


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

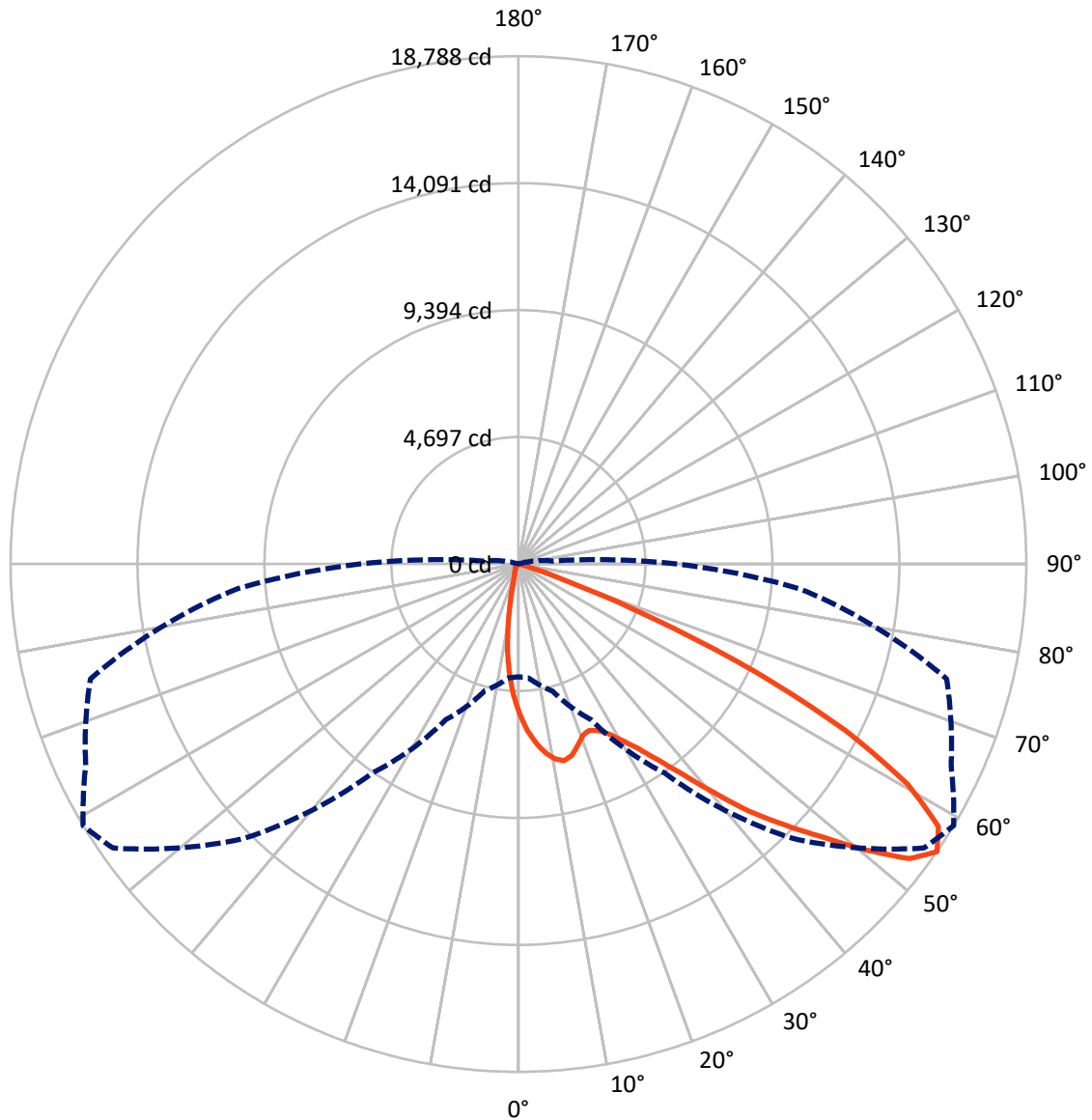


Based on 25 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - Full Cutoff

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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	1097.9	0.0	1097.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	18558.1	0.0	18558.1
	% Fixture	94.4	0.0	94.4
Total	Lumens	19656.0	0.0	19656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.5	2.4
10°-20°	1109.6	5.6
20°-30°	1888.2	9.6
30°-40°	3247.3	16.5
40°-50°	5013.4	25.5
50°-60°	5040.1	25.6
60°-70°	2584.6	13.1
70°-80°	280.1	1.4
80°-90°	29.3	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°	19656.0	100.0
0°-180°	19656.0	100.0

Coefficient of Utilization



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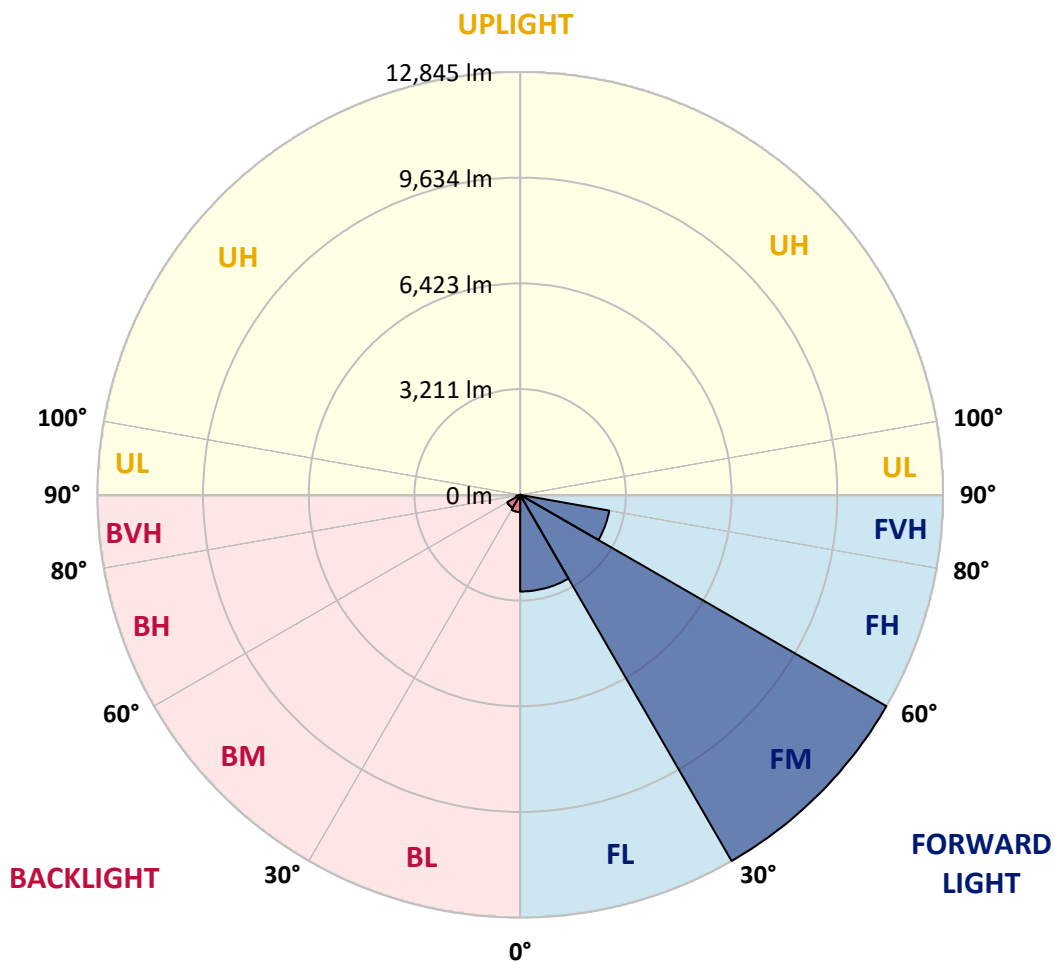
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2937.3	14.9			
FM	(30°-60°)	12845.1	65.3			
FH	(60°-80°)	2747.1	14.0			G2/5000
FVH	(80°-90°)	28.7	0.1			G1/100
BL	(0°-30°)	524.0	2.7	B2/1000		
BM	(30°-60°)	455.6	2.3	B1/1000		
BH	(60°-80°)	117.6	0.6	B1/500		G1/500
BVH	(80°-90°)	0.6	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5533.1	5533.1	5533.1	5533.1	5533.1	5533.1	5533.1	5533.1	5533.1	5533.1	5533.1
2.5°	6546.9	6477.3	6456.4	6442.5	6378.7	6298.7	6189.6	6138.6	6034.2	5866.0	5659.5
5°	7146.6	7133.9	7087.5	7061.9	6993.5	6879.8	6705.8	6622.3	6456.4	6173.4	5803.4
7.5°	6884.5	6964.5	7028.3	7135.0	7269.6	7264.9	7118.8	7031.8	6846.2	6472.7	5963.4
10°	5871.8	5936.8	6041.2	6283.6	6777.7	7213.9	7385.6	7322.9	7174.5	6747.6	6117.7
12.5°	5673.5	5666.5	5685.1	5755.8	6014.5	6636.2	7340.3	7466.8	7436.6	6999.3	6263.9
15°	5779.0	5770.9	5768.6	5792.9	5855.6	6117.7	7000.5	7363.5	7596.7	7232.5	6388.0
17.5°	6074.8	6040.0	6021.4	6001.7	5983.2	6048.1	6592.2	7074.7	7621.1	7436.6	6491.2
20°	6581.7	6523.7	6455.3	6343.9	6239.5	6207.0	6420.5	6777.7	7534.1	7592.1	6558.5
22.5°	7218.5	7144.3	7026.0	6823.0	6610.7	6487.8	6505.2	6683.8	7404.1	7761.4	6589.8
25°	7934.2	7839.1	7681.4	7399.5	7087.5	6869.4	6755.7	6818.3	7345.0	7959.8	6625.8
27.5°	8701.0	8595.4	8389.0	8005.0	7651.2	7356.6	7124.6	7116.5	7445.9	8219.6	6683.8
30°	9460.8	9444.5	9175.4	8769.4	8300.8	7942.4	7608.3	7565.4	7727.8	8579.2	6798.6
32.5°	10474.6	10352.8	10023.4	9605.8	9065.2	8634.9	8239.3	8139.6	8160.4	8997.9	6976.1
35°	11752.9	11619.5	11155.5	10579.0	9974.6	9466.6	9029.3	8893.5	8842.5	9683.5	7275.4
37.5°	12578.8	12576.5	12285.3	11698.4	11049.9	10489.7	10014.1	9855.2	9751.9	10511.7	7739.4
40°	12600.8	12655.4	12693.6	12687.8	12226.2	11710.0	11287.7	11091.7	10851.6	11618.3	8339.1
42.5°	11924.6	12064.9	12402.5	12975.5	13249.3	13043.9	12687.8	12495.3	12138.0	12802.7	9069.9
45°	11010.5	11107.9	11698.4	12754.0	13803.7	14366.3	14094.9	13750.4	13279.4	14038.0	9725.3
47.5°	10601.0	10618.4	11000.1	12158.9	13845.5	15449.7	15614.5	15054.2	14316.4	15033.3	10238.0
50°	9377.3	9408.6	9935.2	11127.7	13356.0	15961.3	17141.0	16609.7	15447.4	15800.1	10424.7
52.5°	7067.7	7111.8	7780.0	9432.9	12010.4	15743.2	18233.7	18104.9	16686.3	16174.7	10435.2
55°	4170.1	4228.1	4866.1	6349.7	9446.9	14355.9	18314.9	18788.2	17664.1	16396.3	10418.9
57.5°	1947.6	1988.2	2353.6	3271.1	5875.3	11345.7	17092.3	18319.5	18203.5	16513.4	10533.8
60°	1034.7	1046.3	1134.5	1416.3	2655.2	7194.2	14706.2	16542.4	17711.7	16675.8	10674.1
62.5°	791.1	794.6	789.9	823.6	1115.9	3193.4	11116.1	13599.6	15731.6	16554.0	10518.7
65°	685.5	691.3	658.9	650.7	715.7	1139.1	6603.8	9693.9	12361.9	14910.4	9459.6
67.5°	614.8	617.1	577.7	544.0	555.6	615.9	2605.3	5306.9	8182.5	10929.3	6856.6
70°	566.1	563.7	520.8	467.5	452.4	421.1	828.2	1945.3	3910.3	5542.4	3188.8
72.5°	501.1	502.3	481.4	411.8	375.8	294.6	384.0	567.2	1166.9	1510.3	747.0
75°	444.3	438.5	413.0	368.9	309.7	193.7	190.2	252.9	359.6	357.3	161.2
77.5°	321.3	315.5	323.6	302.8	237.8	125.3	95.1	121.8	146.2	141.5	45.2
80°	235.5	232.0	208.8	251.7	210.0	85.8	59.2	65.0	75.4	63.8	13.9
82.5°	161.2	160.1	147.3	139.2	119.5	52.2	37.1	40.6	48.7	36.0	7.0
85°	25.5	29.0	106.7	84.7	70.8	23.2	25.5	27.8	32.5	19.7	2.3
87.5°	0.0	0.0	49.9	44.1	13.9	9.3	15.1	16.2	16.2	10.4	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°	5533.1	5533.1	5533.1	5533.1	5533.1	5533.1	5533.1	5533.1	5533.1	5533.1	5533.1
2.5°	5554.0	5438.0	5223.4	5001.8	4796.5	4551.8	4383.6	4257.1	4111.0	4071.5	4157.4
5°	5592.3	5373.0	4911.3	4409.1	3937.0	3413.8	3013.6	2696.9	2410.4	2313.0	2401.2
7.5°	5652.6	5326.6	4573.8	3746.7	2925.5	2108.8	1549.7	1182.0	947.7	878.1	915.2
10°	5712.9	5259.3	4182.9	2962.6	1839.7	1026.6	668.1	533.6	483.7	473.3	479.1
12.5°	5762.8	5168.9	3706.1	2106.5	983.7	549.8	437.3	415.3	408.3	408.3	410.6
15°	5792.9	5032.0	3141.2	1339.8	566.1	415.3	381.6	374.7	374.7	375.8	378.2
17.5°	5789.4	4858.0	2523.0	810.8	423.4	367.7	348.0	342.2	341.0	343.4	344.5
20°	5746.5	4630.6	1902.4	534.7	368.9	335.2	315.5	305.1	303.9	306.2	308.6
22.5°	5665.3	4349.9	1360.7	411.8	332.9	303.9	279.6	270.3	270.3	272.6	274.9
25°	5566.7	4006.6	930.3	349.2	300.4	270.3	247.1	239.0	241.3	247.1	248.2
27.5°	5443.8	3620.3	632.2	299.3	261.0	236.6	219.2	213.4	219.2	227.4	229.7
30°	5338.2	3217.8	451.2	258.7	221.6	204.2	193.7	193.7	201.8	216.9	220.4
32.5°	5257.0	2828.0	348.0	228.5	192.6	177.5	171.7	177.5	190.2	205.3	208.8
35°	5246.6	2506.7	294.6	204.2	171.7	156.6	154.3	164.7	177.5	189.1	191.4
37.5°	5326.6	2209.8	265.6	184.4	153.1	139.2	136.9	149.6	162.4	176.3	179.8
40°	5478.6	1976.6	244.8	165.9	138.0	123.0	118.3	127.6	145.0	163.6	168.2
42.5°	5675.8	1784.0	221.6	147.3	123.0	102.1	96.3	106.7	125.3	145.0	150.8
45°	5863.7	1618.2	196.0	126.4	103.2	78.9	76.6	90.5	99.8	119.5	124.1
47.5°	5966.9	1472.0	174.0	103.2	80.0	63.8	63.8	67.3	76.6	99.8	104.4
50°	5932.1	1354.9	150.8	76.6	55.7	48.7	48.7	47.6	61.5	80.0	83.5
52.5°	5862.5	1287.6	129.9	59.2	38.3	34.8	31.3	34.8	42.9	51.0	52.2
55°	5852.1	1276.0	109.0	47.6	26.7	23.2	17.4	17.4	17.4	16.2	13.9
57.5°	5933.3	1294.5	91.6	38.3	19.7	15.1	9.3	0.0	0.0	0.0	0.0
60°	6016.8	1314.3	78.9	26.7	13.9	8.1	1.2	0.0	0.0	0.0	0.0
62.5°	5877.6	1270.2	66.1	16.2	10.4	3.5	0.0	0.0	0.0	0.0	0.0
65°	5163.1	1081.1	52.2	11.6	7.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3672.5	723.8	34.8	7.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	1676.2	302.8	22.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	358.4	94.0	15.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	73.1	68.4	5.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	23.2	107.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.9	77.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.3	11.6	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)