

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: P192672

Luminaire Tested: **GLEON-AF-04-LED-E1-AFL-7030-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192672
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-7030-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 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: 19010 lumens
Efficiency: N/A
Efficacy: 84.5 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

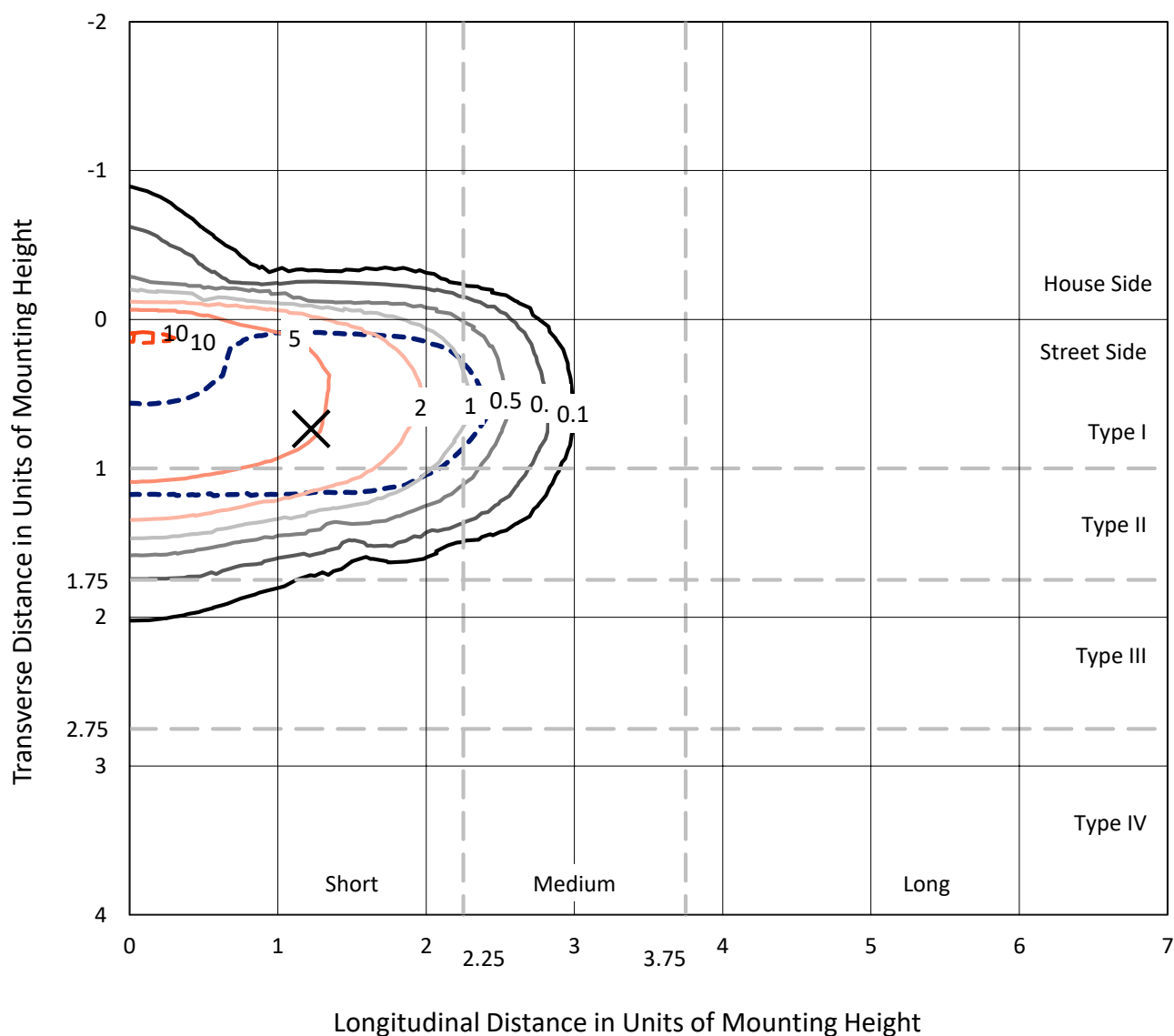


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

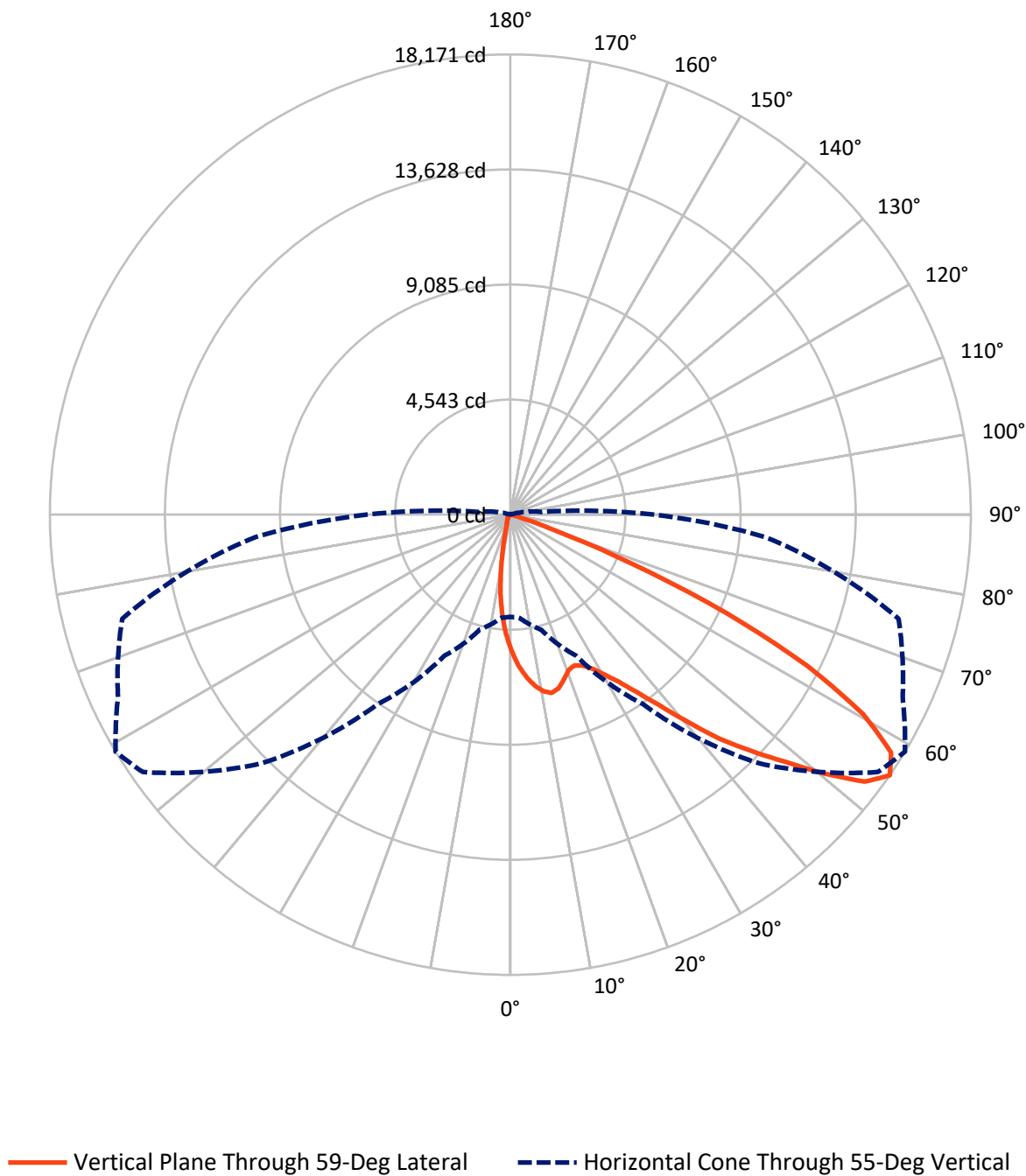


Based on 25 foot mounting height. Maximum calculated value = 10.7 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1061.8	0.0	1061.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	17948.2	0.0	17948.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	19010.0	0.0	19010.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	448.2	2.4
10°-20°	1073.2	5.6
20°-30°	1826.1	9.6
30°-40°	3140.5	16.5
40°-50°	4848.7	25.5
50°-60°	4874.4	25.6
60°-70°	2499.6	13.1
70°-80°	270.9	1.4
80°-90°	28.3	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°	19010.0	100.0
0°-180°	19010.0	100.0

Coefficient of Utilization



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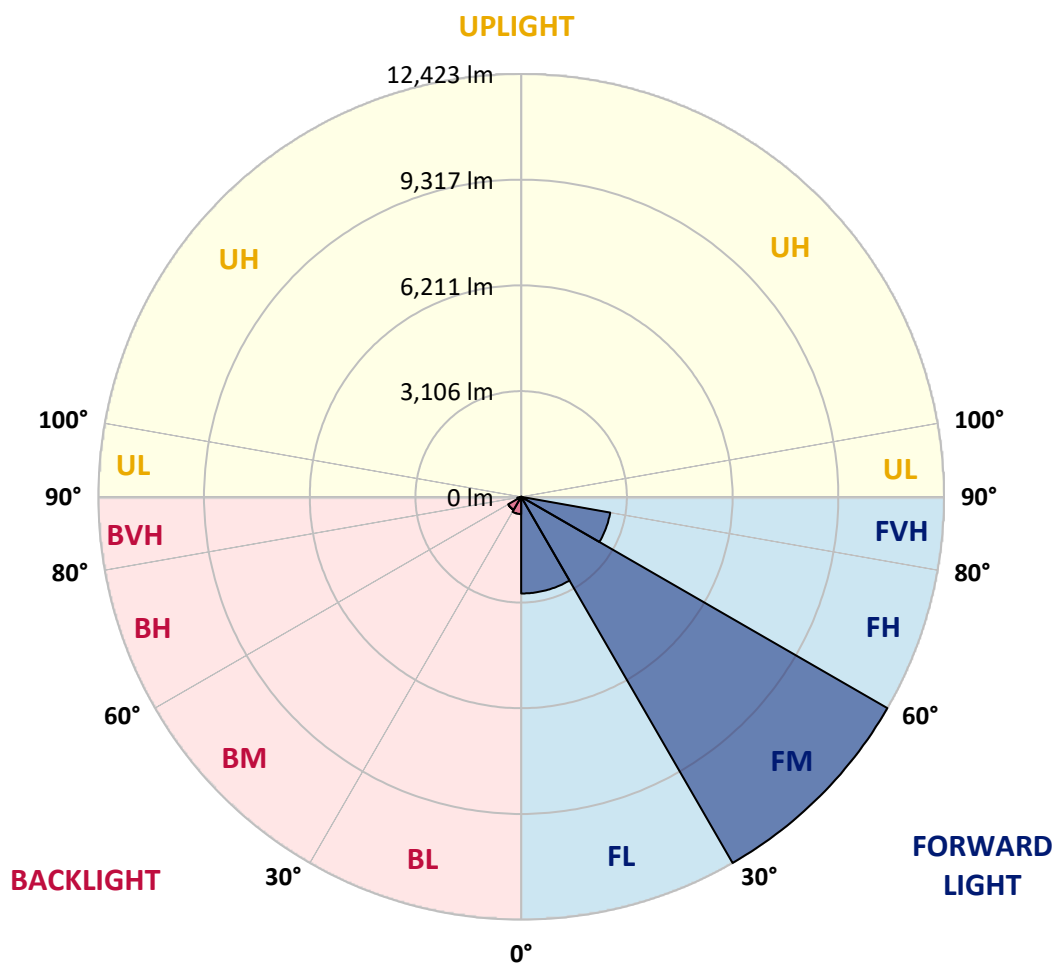
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2840.7	14.9			
FM	(30°-60°)	12423.0	65.3			
FH	(60°-80°)	2656.8	14.0			G2/5000
FVH	(80°-90°)	27.7	0.1			G1/100
BL	(0°-30°)	506.8	2.7	B2/1000		
BM	(30°-60°)	440.7	2.3	B1/1000		
BH	(60°-80°)	113.8	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°	5351.3	5351.3	5351.3	5351.3	5351.3	5351.3	5351.3	5351.3	5351.3	5351.3	5351.3
2.5°	6331.8	6264.5	6244.2	6230.8	6169.1	6091.6	5986.2	5936.8	5835.9	5673.2	5473.6
5°	6911.7	6899.4	6854.5	6829.9	6763.7	6653.8	6485.4	6404.7	6244.2	5970.5	5612.6
7.5°	6658.3	6735.7	6797.3	6900.5	7030.8	7026.1	6884.9	6800.8	6621.2	6260.0	5767.5
10°	5678.9	5741.7	5842.6	6077.1	6555.0	6976.9	7142.9	7082.3	6938.7	6525.8	5916.7
12.5°	5487.0	5480.2	5498.3	5566.6	5816.9	6418.1	7099.1	7221.4	7192.2	6769.2	6058.0
15°	5589.0	5581.2	5579.0	5602.6	5663.1	5916.7	6770.4	7121.5	7347.0	6994.8	6178.1
17.5°	5875.2	5841.5	5823.5	5804.5	5786.5	5849.3	6375.5	6842.3	7370.6	7192.2	6277.9
20°	6365.5	6309.2	6243.1	6135.5	6034.5	6003.0	6209.4	6555.0	7286.5	7342.6	6342.9
22.5°	6981.3	6909.5	6795.1	6598.7	6393.5	6274.5	6291.3	6464.1	7160.9	7506.3	6373.3
25°	7673.5	7581.5	7429.0	7156.3	6854.5	6643.6	6533.7	6594.3	7103.6	7698.2	6408.0
27.5°	8415.0	8313.0	8113.3	7741.9	7399.8	7114.9	6890.4	6882.6	7201.2	7949.4	6464.1
30°	9149.8	9134.2	8873.9	8481.2	8028.1	7681.4	7358.3	7316.8	7473.8	8297.2	6575.2
32.5°	10130.4	10012.5	9693.9	9290.1	8767.3	8351.1	7968.5	7872.0	7892.3	8702.3	6746.9
35°	11366.7	11237.7	10789.0	10231.4	9646.8	9155.5	8732.5	8601.2	8551.9	9365.2	7036.3
37.5°	12165.4	12163.2	11881.6	11313.9	10686.7	10144.9	9685.0	9531.2	9431.5	10166.2	7485.1
40°	12186.7	12239.4	12276.5	12270.9	11824.4	11325.2	10916.7	10727.2	10495.0	11236.6	8065.0
42.5°	11532.7	11668.5	11994.9	12549.1	12813.8	12615.3	12270.9	12084.6	11739.2	12382.0	8771.8
45°	10648.6	10742.9	11313.9	12334.9	13350.1	13894.2	13631.6	13298.5	12843.0	13576.7	9405.7
47.5°	10252.7	10269.5	10638.6	11759.2	13390.5	14942.0	15101.3	14559.5	13846.0	14539.2	9901.5
50°	9069.1	9099.3	9608.7	10761.9	12917.0	15436.7	16577.7	16063.9	14939.8	15280.8	10082.1
52.5°	6835.5	6878.1	7524.2	9122.9	11615.7	15225.9	17634.5	17509.9	16137.9	15643.2	10092.2
55°	4033.1	4089.1	4706.3	6141.0	9136.4	13884.1	17713.0	18170.7	17083.7	15857.5	10076.6
57.5°	1883.6	1922.9	2276.2	3163.6	5682.2	10972.9	16530.5	17717.5	17605.3	15970.8	10187.6
60°	1000.7	1012.0	1097.2	1369.8	2567.9	6957.7	14223.0	15998.9	17129.6	16127.8	10323.4
62.5°	765.2	768.4	763.9	796.5	1079.3	3088.4	10750.8	13152.6	15214.6	16010.0	10173.0
65°	662.9	668.6	637.2	629.4	692.1	1101.7	6386.7	9375.3	11955.5	14420.4	9148.8
67.5°	594.6	596.8	558.7	526.2	537.3	595.7	2519.7	5132.5	7913.5	10570.2	6631.3
70°	547.5	545.2	503.6	452.2	437.5	407.2	801.0	1881.3	3781.8	5360.3	3084.0
72.5°	484.7	485.7	465.6	398.2	363.5	284.9	371.4	548.6	1128.5	1460.7	722.4
75°	429.7	424.0	399.4	356.7	299.6	187.4	184.0	244.5	347.8	345.5	155.9
77.5°	310.8	305.2	313.0	292.9	230.0	121.2	92.0	117.8	141.4	136.9	43.7
80°	227.7	224.4	201.9	243.4	203.0	83.0	57.3	62.9	72.8	61.7	13.4
82.5°	155.9	154.8	142.5	134.6	115.6	50.5	35.9	39.3	47.1	34.8	6.8
85°	24.7	28.1	103.2	82.0	68.4	22.4	24.7	26.9	31.3	19.1	2.3
87.5°	0.0	0.0	48.3	42.6	13.4	9.0	14.5	15.8	15.8	10.1	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°	5351.3	5351.3	5351.3	5351.3	5351.3	5351.3	5351.3	5351.3	5351.3	5351.3	5351.3
2.5°	5371.4	5259.3	5051.7	4837.5	4638.8	4402.2	4239.5	4117.2	3975.8	3937.7	4020.7
5°	5408.5	5196.5	4749.9	4264.2	3807.5	3301.6	2914.6	2608.3	2331.3	2237.0	2322.2
7.5°	5466.8	5151.6	4423.5	3623.6	2829.3	2039.6	1498.8	1143.2	916.5	849.3	885.1
10°	5525.1	5086.4	4045.5	2865.3	1779.3	992.8	646.2	516.0	467.8	457.7	463.4
12.5°	5573.5	4998.9	3584.4	2037.2	951.3	531.8	423.0	401.6	394.9	394.9	397.1
15°	5602.6	4866.6	3038.0	1295.7	547.5	401.6	369.1	362.4	362.4	363.5	365.7
17.5°	5599.2	4698.3	2440.1	784.2	409.5	355.6	336.5	330.9	329.9	332.0	333.2
20°	5557.7	4478.4	1839.8	517.2	356.7	324.2	305.2	295.0	293.9	296.2	298.4
22.5°	5479.2	4206.9	1315.9	398.2	322.0	293.9	270.4	261.3	261.3	263.7	265.8
25°	5383.8	3874.9	899.7	337.7	290.5	261.3	239.0	231.1	233.4	239.0	240.1
27.5°	5264.8	3501.3	611.5	289.4	252.4	228.9	212.1	206.4	212.1	219.8	222.2
30°	5162.8	3112.0	436.4	250.2	214.2	197.4	187.4	187.4	195.2	209.8	213.2
32.5°	5084.3	2735.1	336.5	221.0	186.2	171.6	166.1	171.6	184.0	198.6	201.9
35°	5074.1	2424.4	284.9	197.4	166.1	151.5	149.2	159.3	171.6	182.9	185.0
37.5°	5151.6	2137.1	256.9	178.4	148.0	134.6	132.4	144.8	157.0	170.6	173.9
40°	5298.5	1911.6	236.8	160.4	133.6	118.9	114.4	123.4	140.2	158.2	162.7
42.5°	5489.3	1725.4	214.2	142.5	118.9	98.8	93.1	103.2	121.2	140.2	145.9
45°	5671.0	1565.0	189.6	122.3	99.9	76.3	74.1	87.5	96.4	115.6	120.0
47.5°	5770.8	1423.6	168.3	99.9	77.3	61.7	61.7	65.1	74.1	96.4	100.9
50°	5737.2	1310.3	145.9	74.1	53.9	47.1	47.1	46.0	59.4	77.3	80.8
52.5°	5669.9	1245.2	125.6	57.3	37.0	33.7	30.3	33.7	41.5	49.3	50.5
55°	5659.7	1234.1	105.4	46.0	25.7	22.4	16.8	16.8	16.8	15.8	13.4
57.5°	5738.3	1252.0	88.6	37.0	19.1	14.5	9.0	0.0	0.0	0.0	0.0
60°	5819.0	1271.0	76.3	25.7	13.4	7.8	1.1	0.0	0.0	0.0	0.0
62.5°	5684.4	1228.4	63.9	15.8	10.1	3.4	0.0	0.0	0.0	0.0	0.0
65°	4993.3	1045.6	50.5	11.3	6.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3551.8	700.1	33.7	6.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0
70°	1621.1	292.9	21.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	346.7	90.9	14.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	70.7	66.2	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	22.4	104.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	13.4	75.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.3	11.3	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)