

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: P191857

Luminaire Tested: **GLEON-AF-09-LED-E1-SL2-7050-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-09-LED-E1-SL2-7050-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44077 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 501
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

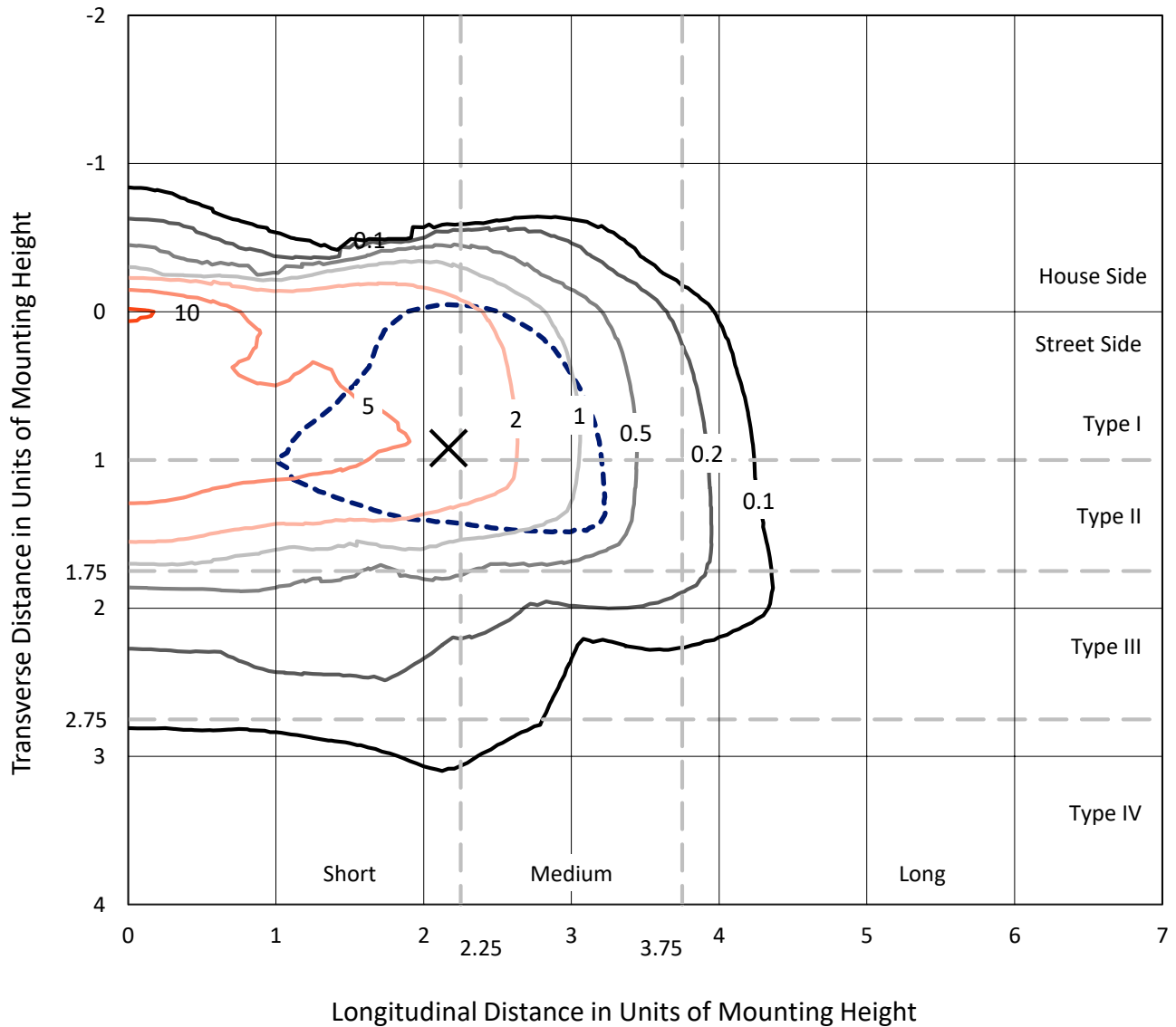


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

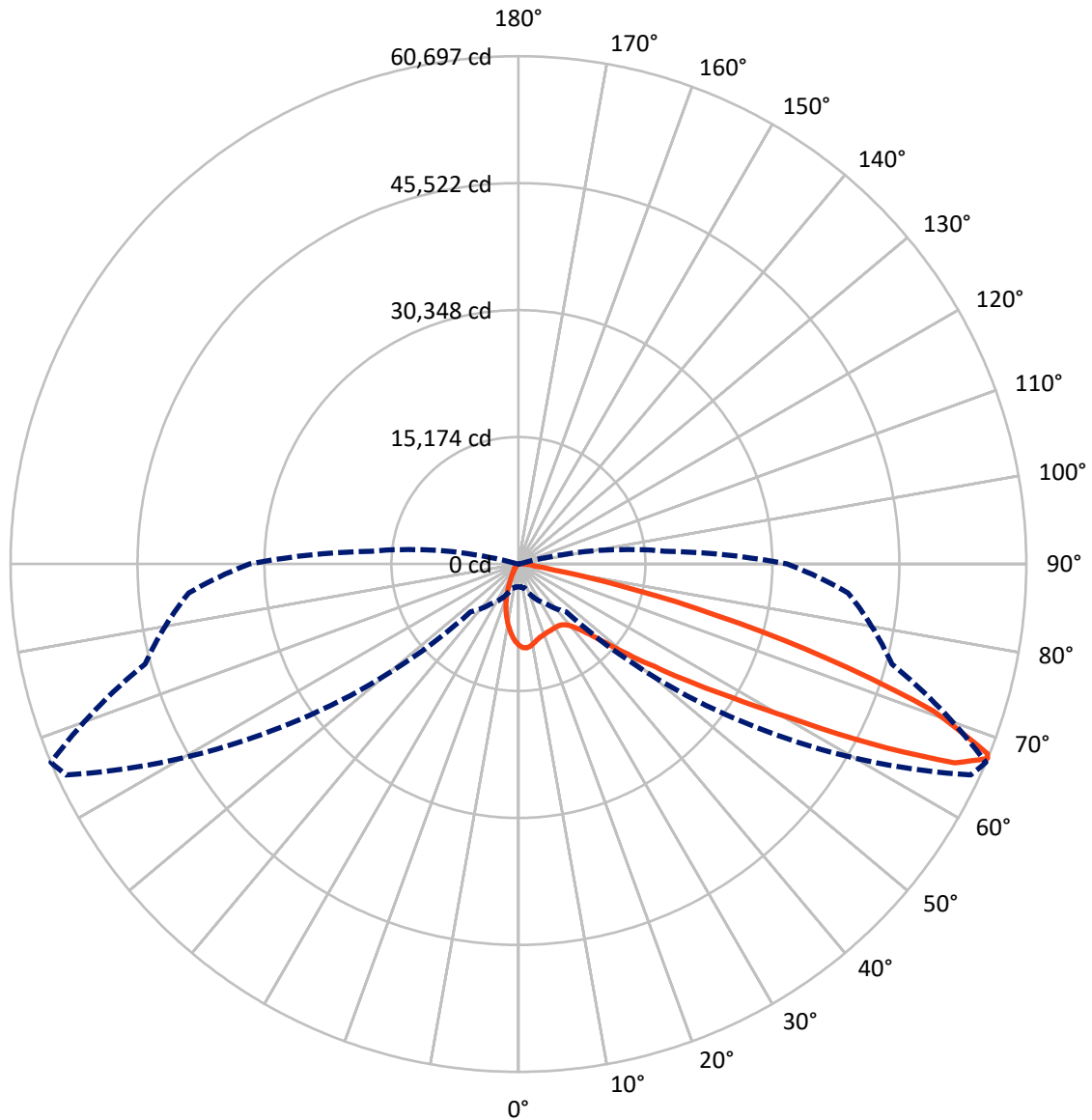


Based on 30 foot mounting height. Maximum calculated value = 10.8 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4576.5	0.0	4576.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	39500.5	0.0	39500.5
	% Fixture	89.6	0.0	89.6
Total	Lumens	44077.0	0.0	44077.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	791.0	1.8
10°-20°	1683.4	3.8
20°-30°	2447.6	5.6
30°-40°	3818.3	8.7
40°-50°	6764.0	15.3
50°-60°	10703.3	24.3
60°-70°	12259.2	27.8
70°-80°	5085.0	11.5
80°-90°	525.2	1.2
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°	44077.0	100.0
0°-180°	44077.0	100.0

Coefficient of Utilization



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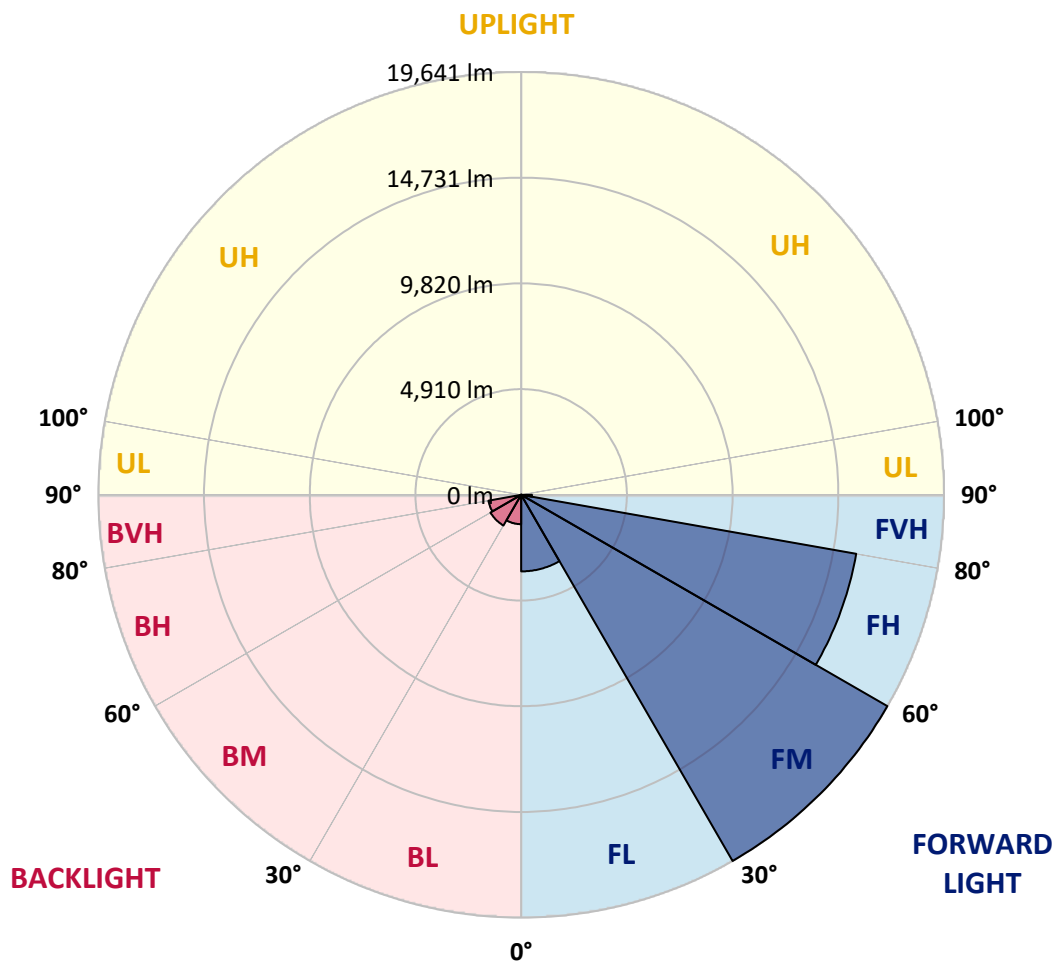
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3556.3	8.1			
FM	(30°-60°)	19640.8	44.6			
FH	(60°-80°)	15801.7	35.9			G5
FVH	(80°-90°)	501.6	1.1			G4/750
BL	(0°-30°)	1365.6	3.1	B3/2500		
BM	(30°-60°)	1644.8	3.7	B2/2500		
BH	(60°-80°)	1542.5	3.5	B3/2500		G3/2500
BVH	(80°-90°)	23.6	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	9720.6	9720.6	9720.6	9720.6	9720.6	9720.6	9720.6	9720.6	9720.6	9720.6	9720.6
2.5°	10049.7	10070.2	10067.7	10083.1	10119.1	10121.7	10085.7	10016.3	10000.8	9910.9	9754.0
5°	9268.1	9327.3	9363.2	9509.8	9674.3	9872.3	10021.4	10075.4	10067.7	10003.4	9766.9
7.5°	8376.0	8435.2	8476.3	8648.5	8867.1	9206.4	9594.6	9913.4	9941.7	10011.1	9756.6
10°	7782.1	7792.4	7849.0	8013.5	8242.3	8589.4	9052.2	9610.1	9694.9	9949.4	9730.9
12.5°	7293.7	7301.4	7375.9	7553.3	7797.6	8147.2	8633.1	9278.4	9409.5	9872.3	9725.7
15°	6946.6	6974.9	7041.7	7226.8	7486.5	7833.6	8332.3	9034.2	9191.0	9844.0	9772.0
17.5°	6830.9	6861.8	6882.3	7016.0	7252.5	7591.9	8103.5	8874.8	9052.2	9859.4	9862.0
20°	6951.7	6974.9	6928.6	6962.0	7108.6	7411.9	7910.7	8738.5	8949.3	9877.4	9977.7
22.5°	7401.6	7411.9	7286.0	7139.4	7113.7	7280.8	7759.0	8630.5	8856.8	9926.3	10114.0
25°	8172.9	8154.9	7949.3	7633.0	7334.8	7257.7	7669.0	8563.7	8810.5	9977.7	10255.4
27.5°	9103.6	9129.3	8846.5	8386.3	7818.1	7411.9	7656.2	8535.4	8789.9	10013.7	10378.8
30°	10234.8	10270.8	9946.8	9368.4	8553.4	7792.4	7774.4	8530.3	8777.1	9990.6	10389.0
32.5°	11389.1	11432.8	11178.3	10581.9	9535.5	8430.0	8041.8	8586.8	8802.8	9910.9	10329.9
35°	12597.5	12659.2	12489.5	11977.9	10867.2	9350.4	8512.3	8759.1	8923.6	9903.1	10270.8
37.5°	14266.0	14322.5	14003.7	13461.3	12479.2	10584.4	9268.1	9083.0	9209.0	10026.5	10286.2
40°	16757.2	16749.5	15926.8	15096.4	14250.5	12152.7	10329.9	9669.2	9733.5	10399.3	10476.5
42.5°	19472.1	19459.2	18243.2	16980.9	16217.3	14083.4	11725.9	10682.1	10638.4	11085.8	10970.1
45°	21564.8	21562.2	20569.8	19148.1	18585.1	16299.6	13530.7	12091.0	12024.1	12201.5	11880.2
47.5°	22456.9	22472.3	21973.6	20973.5	21210.0	19297.2	15805.9	14132.3	14032.0	13960.0	13471.6
50°	21762.7	21793.6	21834.7	21639.3	23135.6	23325.9	18857.6	17009.1	16960.3	16638.9	15875.4
52.5°	19495.2	19652.0	20135.4	20754.9	23804.0	27192.5	23642.1	20582.7	20320.5	19978.5	19137.8
55°	15674.8	15847.1	16764.9	18268.9	22809.1	29732.6	30347.0	25189.8	24752.7	23732.1	22518.6
57.5°	10373.6	10641.0	11972.7	13885.5	19919.4	30141.3	37036.5	31583.6	30061.6	27267.1	25899.3
60°	5715.1	5972.2	7417.1	9149.9	14386.8	28120.6	41535.6	39908.2	37219.0	31218.5	30005.1
62.5°	3519.6	3658.4	4725.3	6337.3	8628.0	22194.7	42466.3	50369.2	47255.9	36306.4	34964.4
65°	2802.3	2861.4	3383.3	5180.4	6185.6	13201.6	39460.9	58344.2	57305.6	42466.3	39404.3
67°	2720.0	2743.2	2990.0	4447.7	5830.8	8093.2	33059.3	59642.5	60696.6	46194.1	39543.1
67.5°	2738.0	2763.7	2997.7	4244.6	5820.5	7437.6	30853.5	59130.9	60462.6	46489.7	38928.7
70°	2640.3	2720.0	3432.2	4242.0	5535.2	6180.5	18477.1	51233.1	52618.8	43196.4	33031.0
72.5°	935.8	941.0	1483.4	3432.2	6018.5	6247.3	9278.4	37558.4	38584.2	33043.9	23814.3
75°	555.3	473.0	493.6	976.9	5751.1	6067.3	5352.6	23999.4	24382.5	18934.7	12060.1
77.5°	383.1	334.2	344.5	431.9	2190.4	5982.5	4252.3	12515.2	12106.4	6640.7	2568.3
80°	218.5	192.8	205.7	377.9	797.0	5581.4	4010.6	5075.0	4326.8	1126.1	709.6
82.5°	115.7	97.7	118.3	311.1	555.3	3478.4	4018.3	2452.6	1943.6	380.5	483.3
85°	41.1	33.4	56.6	213.4	370.2	1066.9	3725.2	2061.9	1619.7	185.1	367.6
87.5°	7.7	7.7	23.1	87.4	149.1	326.5	2203.3	1223.8	820.1	110.5	251.9
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°	9720.6	9720.6	9720.6	9720.6	9720.6	9720.6	9720.6	9720.6	9720.6	9720.6	9720.6
2.5°	9689.8	9579.2	9430.1	9247.6	9031.6	8841.4	8700.0	8553.4	8522.6	8471.1	8463.4
5°	9625.5	9435.2	9065.0	8640.8	8188.3	7779.6	7447.9	7152.3	7021.2	6908.0	6895.2
7.5°	9530.4	9245.0	8615.1	7931.3	7224.3	6581.5	6036.5	5650.9	5296.1	5126.4	5100.7
10°	9419.8	9011.0	8108.6	7160.0	6183.0	5275.5	4465.7	3786.9	3375.6	3131.4	3100.5
12.5°	9317.0	8782.2	7591.9	6360.4	5062.1	3848.7	2807.4	2159.6	1727.7	1552.8	1532.3
15°	9268.1	8597.1	7108.6	5542.9	3889.8	2450.1	1534.8	1187.8	1046.4	1005.2	1002.7
17.5°	9263.0	8440.3	6635.5	4697.1	2725.2	1424.3	1000.1	912.7	884.4	874.1	874.1
20°	9260.4	8291.2	6162.5	3820.4	1730.2	948.7	833.0	812.4	791.8	779.0	779.0
22.5°	9288.7	8157.5	5668.9	2925.7	1090.1	768.7	732.7	712.1	686.4	668.4	665.9
25°	9317.0	8054.7	5165.0	2082.4	789.3	668.4	632.4	604.2	568.2	545.0	542.5
27.5°	9322.1	7926.1	4625.1	1393.4	660.7	583.6	537.3	493.6	452.5	429.3	426.8
30°	9245.0	7710.2	4026.0	941.0	583.6	506.5	444.8	398.5	359.9	341.9	341.9
32.5°	9093.3	7442.8	3367.9	709.6	519.3	434.5	367.6	323.9	298.2	290.5	287.9
35°	8957.0	7154.8	2691.7	601.6	465.3	367.6	300.8	272.5	257.1	254.5	251.9
37.5°	8877.3	6923.5	2056.7	545.0	413.9	308.5	254.5	234.0	226.2	221.1	223.7
40°	8939.0	6730.6	1519.4	498.8	362.5	257.1	216.0	205.7	198.0	195.4	195.4
42.5°	9209.0	6697.2	1128.6	457.6	313.7	213.4	187.7	180.0	174.8	172.3	174.8
45°	9918.6	6902.9	876.7	419.1	264.8	180.0	159.4	156.8	154.3	154.3	154.3
47.5°	10985.5	7327.1	730.1	375.4	221.1	154.3	138.8	136.3	133.7	136.3	136.3
50°	12792.8	8103.5	653.0	331.6	182.5	131.1	118.3	118.3	118.3	118.3	120.8
52.5°	15541.1	9630.6	601.6	287.9	149.1	110.5	100.3	100.3	102.8	102.8	105.4
55°	18603.1	11656.5	555.3	244.2	126.0	92.6	82.3	84.8	87.4	90.0	90.0
57.5°	21924.7	13900.9	516.8	200.5	108.0	74.6	69.4	72.0	74.6	79.7	79.7
60°	25932.8	16330.4	460.2	156.8	90.0	59.1	54.0	59.1	66.8	72.0	74.6
62.5°	30334.2	18680.2	388.2	123.4	74.6	46.3	43.7	54.0	64.3	69.4	72.0
65°	33342.1	19418.1	298.2	100.3	56.6	33.4	36.0	48.8	61.7	69.4	69.4
67°	32123.5	17605.6	244.2	84.8	46.3	25.7	33.4	48.8	61.7	66.8	69.4
67.5°	31277.7	16896.0	234.0	82.3	43.7	25.7	33.4	48.8	61.7	69.4	69.4
70°	25449.4	12692.6	195.4	61.7	36.0	23.1	28.3	46.3	59.1	66.8	66.8
72.5°	17682.7	7825.8	174.8	43.7	30.9	20.6	25.7	43.7	56.6	64.3	66.8
75°	8406.9	2833.1	149.1	33.4	28.3	18.0	23.1	43.7	56.6	64.3	64.3
77.5°	1714.8	658.2	120.8	28.3	23.1	18.0	20.6	41.1	54.0	61.7	61.7
80°	563.0	254.5	90.0	25.7	23.1	18.0	20.6	38.6	54.0	59.1	61.7
82.5°	406.2	128.5	59.1	25.7	23.1	18.0	18.0	38.6	51.4	59.1	59.1
85°	311.1	90.0	38.6	25.7	23.1	18.0	18.0	36.0	48.8	56.6	56.6
87.5°	205.7	36.0	30.9	25.7	23.1	18.0	18.0	36.0	46.3	54.0	56.6
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)