

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: P192008

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192008
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24301)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL4-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38634 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G5

Input Watts (W): 419
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

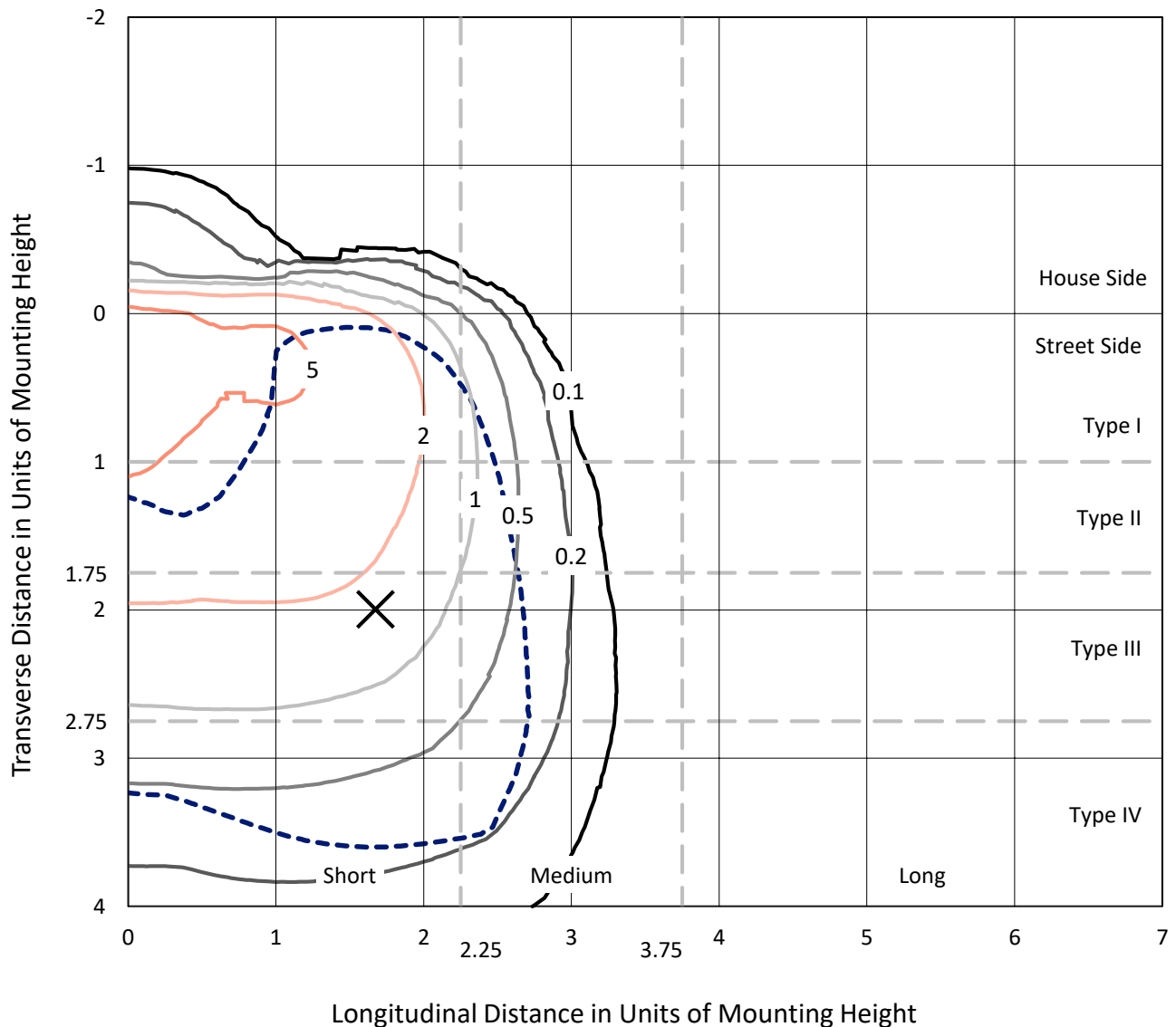


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

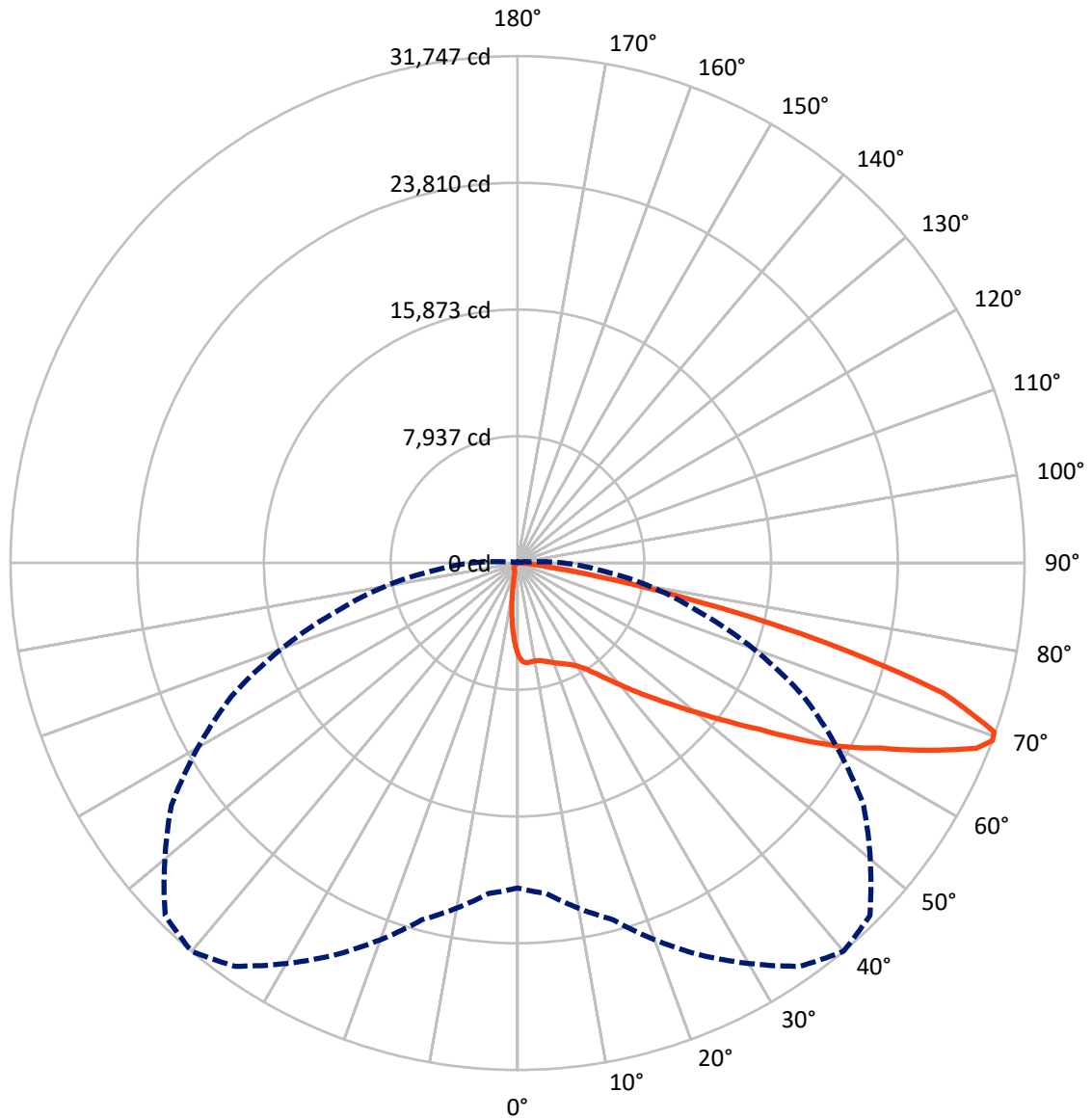


Based on 30 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2260.3	0.0	2260.3
	% Fixture	5.9	0.0	5.9
Street Side	Lumens	36373.7	0.0	36373.7
	% Fixture	94.1	0.0	94.1
Total	Lumens	38634.0	0.0	38634.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	468.0	1.2
10°-20°	1150.9	3.0
20°-30°	1938.5	5.0
30°-40°	3173.4	8.2
40°-50°	5494.7	14.2
50°-60°	8654.7	22.4
60°-70°	11302.7	29.3
70°-80°	5821.4	15.1
80°-90°	629.7	1.6
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°	38634.0	100.0
0°-180°	38634.0	100.0



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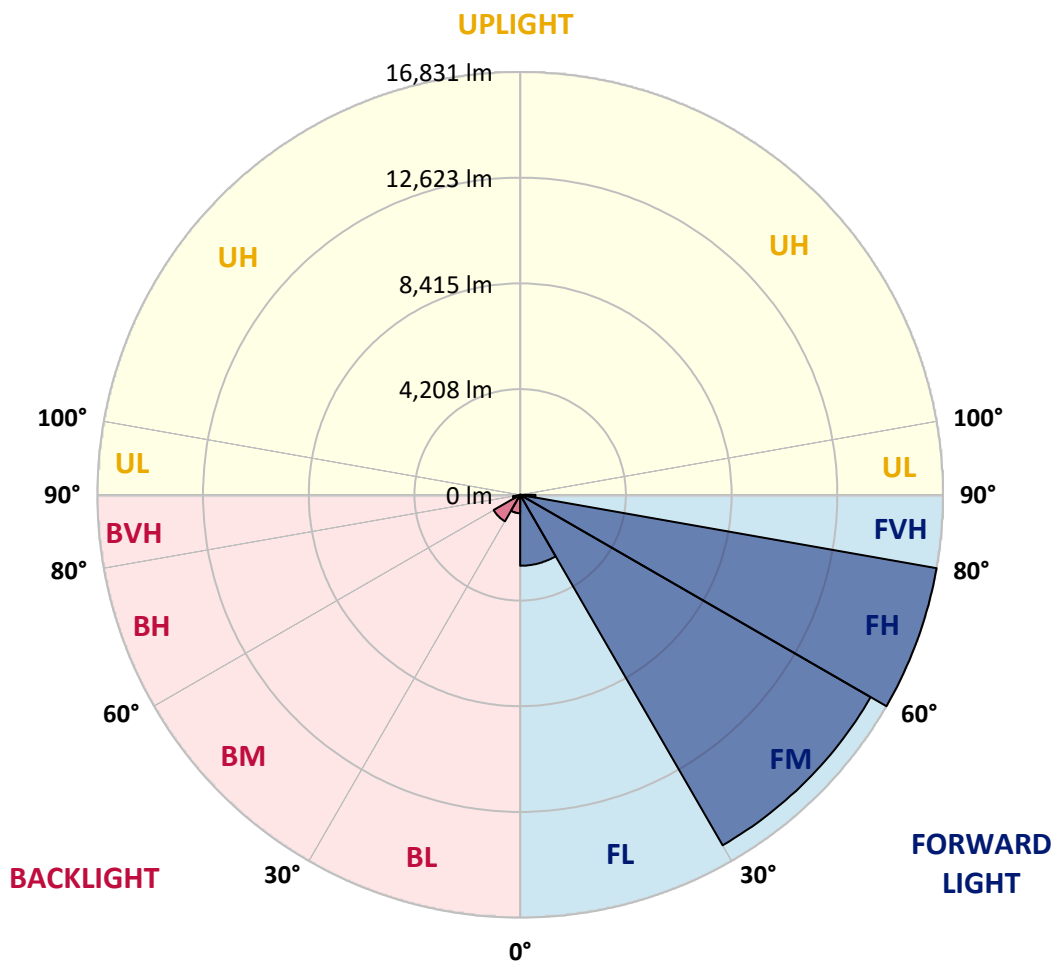
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2825.3	7.3			
FM	(30°-60°)	16108.0	41.7			
FH	(60°-80°)	16830.6	43.6			G5
FVH	(80°-90°)	609.9	1.6			G4/750
BL	(0°-30°)	732.2	1.9	B2/1000		
BM	(30°-60°)	1214.9	3.1	B2/2500		
BH	(60°-80°)	293.5	0.8	B1/500		G1/500
BVH	(80°-90°)	19.8	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	5772.1	5772.1	5772.1	5772.1	5772.1	5772.1	5772.1	5772.1	5772.1	5772.1	5772.1
2.5°	6337.8	6303.3	6282.6	6255.0	6220.5	6190.7	6179.2	6094.1	6013.6	5903.2	5776.7
5°	6455.1	6443.6	6406.8	6370.0	6328.6	6282.6	6257.3	6156.2	6041.2	5880.2	5659.4
7.5°	6466.6	6452.8	6406.8	6356.2	6298.7	6243.5	6199.9	6098.7	5992.9	5829.6	5560.6
10°	6448.2	6432.1	6397.6	6342.4	6271.1	6218.3	6174.6	6078.0	5988.3	5841.1	5542.2
12.5°	6427.5	6411.4	6395.3	6367.7	6305.6	6268.8	6232.0	6140.1	6059.6	5935.4	5608.8
15°	6448.2	6439.0	6457.4	6445.9	6411.4	6379.2	6342.4	6259.6	6186.1	6082.6	5730.7
17.5°	6535.6	6535.6	6593.1	6600.0	6567.8	6521.8	6468.9	6386.1	6324.0	6236.6	5875.6
20°	6740.3	6733.4	6807.0	6820.8	6742.6	6671.3	6593.1	6491.9	6443.6	6388.4	6018.2
22.5°	7092.1	7059.9	7103.6	7089.8	6935.7	6825.4	6728.8	6604.6	6579.3	6554.0	6176.9
25°	7549.7	7531.3	7561.2	7425.6	7154.2	7004.7	6889.7	6749.5	6749.5	6774.8	6356.2
27.5°	8214.3	8145.4	8044.2	7805.0	7398.0	7207.1	7082.9	6933.4	6972.5	7066.8	6593.1
30°	8895.0	8819.2	8586.9	8218.9	7694.6	7494.6	7349.7	7193.3	7285.3	7457.8	6910.4
32.5°	9566.5	9481.5	9152.6	8688.1	8120.1	7920.0	7779.7	7607.2	7761.3	8051.1	7375.0
35°	10217.3	10141.5	9762.0	9214.7	8685.8	8520.2	8391.4	8241.9	8439.7	8844.4	8030.4
37.5°	10948.6	10865.8	10403.6	9810.3	9373.4	9253.8	9159.5	9010.0	9355.0	9948.3	8943.3
40°	11847.8	11707.5	11084.3	10493.3	10169.0	10111.6	10047.2	10026.5	10562.3	11383.3	10159.8
42.5°	12878.0	12648.1	11797.2	11213.1	11042.9	11084.3	11068.2	11160.2	12073.2	13167.8	11640.8
45°	13908.3	13611.6	12590.6	11981.2	12004.2	12149.0	12238.7	12606.7	13965.8	15214.5	13234.5
47.5°	14782.1	14490.1	13351.8	12811.3	13087.3	13372.5	13616.2	14313.0	15911.3	17229.0	14474.0
50°	15529.5	15253.6	14158.9	13724.3	14345.2	14805.1	15200.7	16233.2	18003.9	18762.8	15343.3
52.5°	16141.2	15957.3	14996.0	14770.6	15782.5	16456.3	17035.8	18273.0	19857.5	20009.2	16019.4
55°	16736.8	16605.8	15895.2	16014.8	17470.4	18388.0	19121.6	20437.0	21453.4	21048.7	16667.9
57.5°	17422.1	17302.6	16920.8	17592.3	19689.6	20844.0	21644.3	22354.9	22858.5	22111.1	17279.6
60°	18121.2	18052.2	18061.4	19344.6	22237.6	23346.0	23787.6	23971.5	24238.3	23111.5	17314.1
62.5°	18788.1	18919.2	19365.3	21294.7	24677.5	25528.4	25751.5	25933.1	25620.4	23270.1	15996.4
65°	19917.3	20131.1	21195.9	23904.8	27361.2	28271.9	28501.8	27878.6	25838.9	21218.9	13011.4
67.5°	20469.2	20860.1	22759.6	26337.9	29964.4	30976.3	30891.2	28005.1	23187.4	16180.3	8350.0
69°	20354.2	20770.4	23120.7	27083.0	30829.1	31746.7	31206.2	26457.5	19754.0	11721.3	5125.9
70°	19898.9	20319.7	22934.4	27055.4	30939.5	31666.2	30622.1	24546.5	16702.3	8570.8	3205.7
72.5°	16617.3	16980.6	20361.1	24454.5	28501.8	27910.8	25618.1	17005.9	8138.5	2334.1	722.1
75°	10228.8	10431.2	14609.7	18422.5	21527.0	20009.2	17068.0	8460.4	2426.1	660.0	400.1
77.5°	5404.2	5496.2	7998.2	10858.9	13646.1	11291.3	8747.9	3300.0	1117.6	413.9	289.8
80°	3194.2	3263.2	4307.2	4964.9	5905.5	4932.7	3497.8	2026.0	800.3	259.9	257.6
82.5°	1828.2	1871.9	3122.9	2759.6	2327.2	1986.9	1740.8	1920.2	480.6	174.8	266.8
85°	671.5	680.7	1756.9	2099.6	1384.4	823.3	864.7	1591.4	128.8	110.4	209.3
87.5°	312.8	305.9	903.8	1285.5	809.5	522.0	673.8	349.5	50.6	71.3	57.5
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°	5772.1	5772.1	5772.1	5772.1	5772.1	5772.1	5772.1	5772.1	5772.1	5772.1	5772.1
2.5°	5703.1	5618.0	5464.0	5305.3	5144.3	5020.1	4898.3	4801.7	4769.5	4709.7	4714.3
5°	5528.4	5372.0	5050.0	4723.5	4383.1	4102.6	3838.1	3624.2	3520.8	3415.0	3415.0
7.5°	5376.6	5148.9	4645.3	4114.1	3564.5	3102.2	2686.0	2373.2	2200.8	2062.8	2060.5
10°	5319.1	5010.9	4307.2	3546.1	2780.3	2150.2	1655.7	1338.4	1175.1	1069.3	1064.7
12.5°	5344.4	4962.6	4047.4	3021.7	2060.5	1382.1	959.0	754.3	685.3	653.1	653.1
15°	5418.0	4948.8	3787.5	2508.9	1455.7	864.7	637.0	581.8	577.2	577.2	577.2
17.5°	5507.7	4953.4	3520.8	2009.9	991.1	618.6	549.6	542.7	547.3	547.3	547.3
20°	5599.6	4955.7	3233.3	1547.7	699.1	538.1	517.4	515.1	519.7	519.7	522.0
22.5°	5712.3	4967.2	2945.8	1156.7	577.2	508.2	492.1	492.1	494.4	494.4	492.1
25°	5841.1	4990.2	2646.9	857.8	526.6	487.5	473.7	471.4	473.7	471.4	469.1
27.5°	6002.1	5022.4	2313.4	671.5	503.6	466.8	455.3	455.3	453.0	450.7	448.4
30°	6204.5	5059.2	1938.6	570.3	480.6	448.4	436.9	434.6	432.3	427.7	427.7
32.5°	6512.6	5139.7	1568.4	517.4	455.3	423.1	413.9	413.9	409.3	404.7	402.4
35°	6986.3	5298.4	1237.2	485.2	427.7	395.5	384.0	384.0	379.4	377.1	374.8
37.5°	7641.7	5539.9	961.3	455.3	400.1	365.6	354.1	351.8	347.2	342.6	340.3
40°	8513.3	5838.8	756.6	427.7	372.5	335.7	326.6	322.0	312.8	305.9	305.9
42.5°	9607.9	6179.2	614.0	397.8	340.3	308.2	301.3	294.4	278.3	271.4	269.1
45°	10753.2	6485.0	519.7	363.3	308.2	280.6	276.0	264.5	243.8	236.9	236.9
47.5°	11578.7	6556.3	457.6	331.1	278.3	250.7	248.4	227.7	209.3	204.7	202.4
50°	12093.9	6416.0	407.0	299.0	250.7	223.1	216.2	190.9	179.4	174.8	172.5
52.5°	12441.1	6165.4	365.6	271.4	225.4	197.8	181.7	163.3	154.1	149.5	149.5
55°	12719.4	5811.2	324.3	246.1	204.7	177.1	154.1	140.3	131.1	126.5	126.5
57.5°	12797.5	5330.6	282.9	225.4	184.0	156.4	131.1	121.9	110.4	108.1	108.1
60°	12229.5	4463.6	250.7	200.1	165.6	135.7	115.0	103.5	92.0	89.7	87.4
62.5°	10732.5	3454.1	220.8	177.1	144.9	117.3	98.9	85.1	75.9	75.9	75.9
65°	8186.7	2315.7	193.2	154.1	126.5	98.9	85.1	69.0	64.4	64.4	66.7
67.5°	4900.6	1260.2	165.6	131.1	108.1	82.8	71.3	59.8	57.5	59.8	59.8
69°	2872.3	740.5	149.5	117.3	94.3	73.6	62.1	52.9	57.5	59.8	59.8
70°	1773.0	499.0	138.0	105.8	85.1	66.7	57.5	50.6	55.2	57.5	57.5
72.5°	494.4	257.6	110.4	82.8	69.0	55.2	46.0	46.0	52.9	55.2	55.2
75°	322.0	190.9	85.1	62.1	52.9	43.7	39.1	43.7	50.6	52.9	52.9
77.5°	266.8	156.4	69.0	50.6	43.7	41.4	36.8	39.1	46.0	48.3	48.3
80°	243.8	110.4	55.2	46.0	39.1	36.8	34.5	32.2	41.4	43.7	43.7
82.5°	232.3	87.4	48.3	41.4	36.8	32.2	29.9	32.2	36.8	39.1	41.4
85°	144.9	57.5	43.7	39.1	32.2	29.9	29.9	29.9	34.5	36.8	36.8
87.5°	52.9	46.0	39.1	32.2	27.6	27.6	27.6	27.6	29.9	34.5	34.5
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)