

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: P191935

Luminaire Tested: **GLEON-AF-07-LED-E1-SL3-7050-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P191935  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-07-LED-E1-SL3-7050-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35969 lumens  
Efficiency: N/A  
Efficacy: 92.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 391  
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

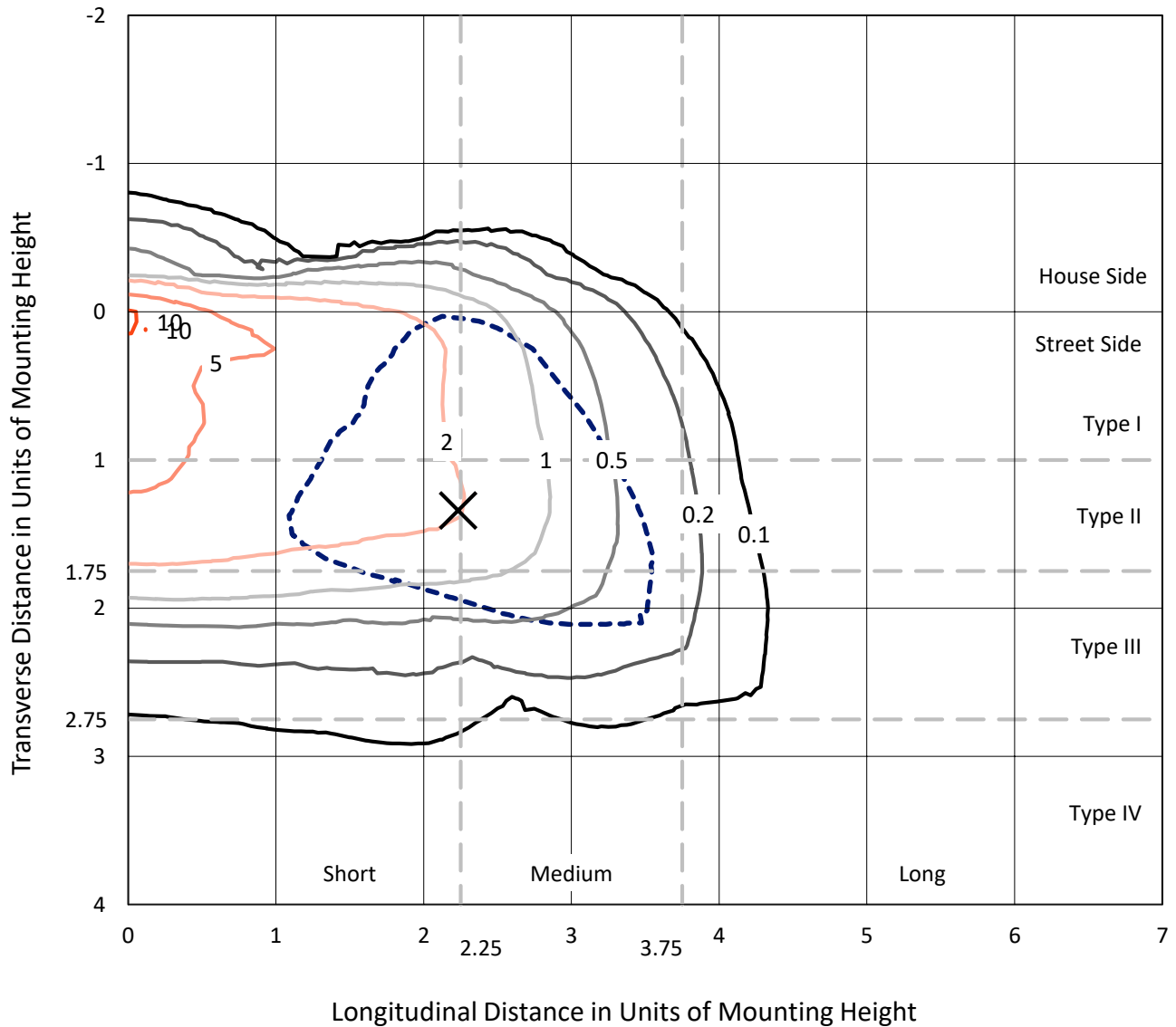


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### Iso-Footcandle Lines of Horizontal Illumination

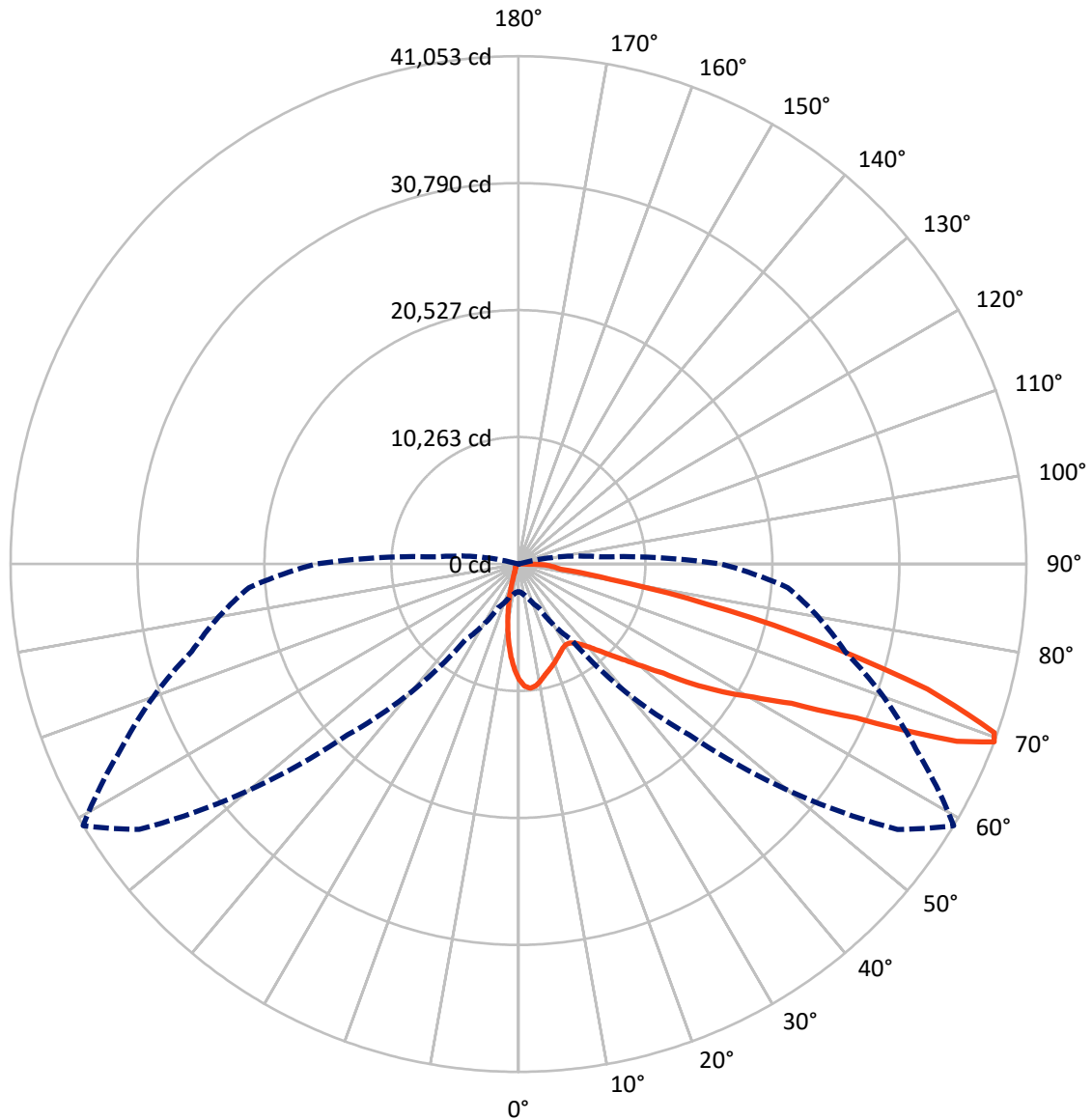
× Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 fc  
 Type III - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2929.2	0.0	2929.2
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	33039.8	0.0	33039.8
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	35969.0	0.0	35969.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	759.9	2.1
10°-20°	1570.2	4.4
20°-30°	2113.0	5.9
30°-40°	3067.9	8.5
40°-50°	5108.3	14.2
50°-60°	7968.8	22.2
60°-70°	9860.7	27.4
70°-80°	4997.3	13.9
80°-90°	522.9	1.5
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°	35969.0	100.0
0°-180°	35969.0	100.0



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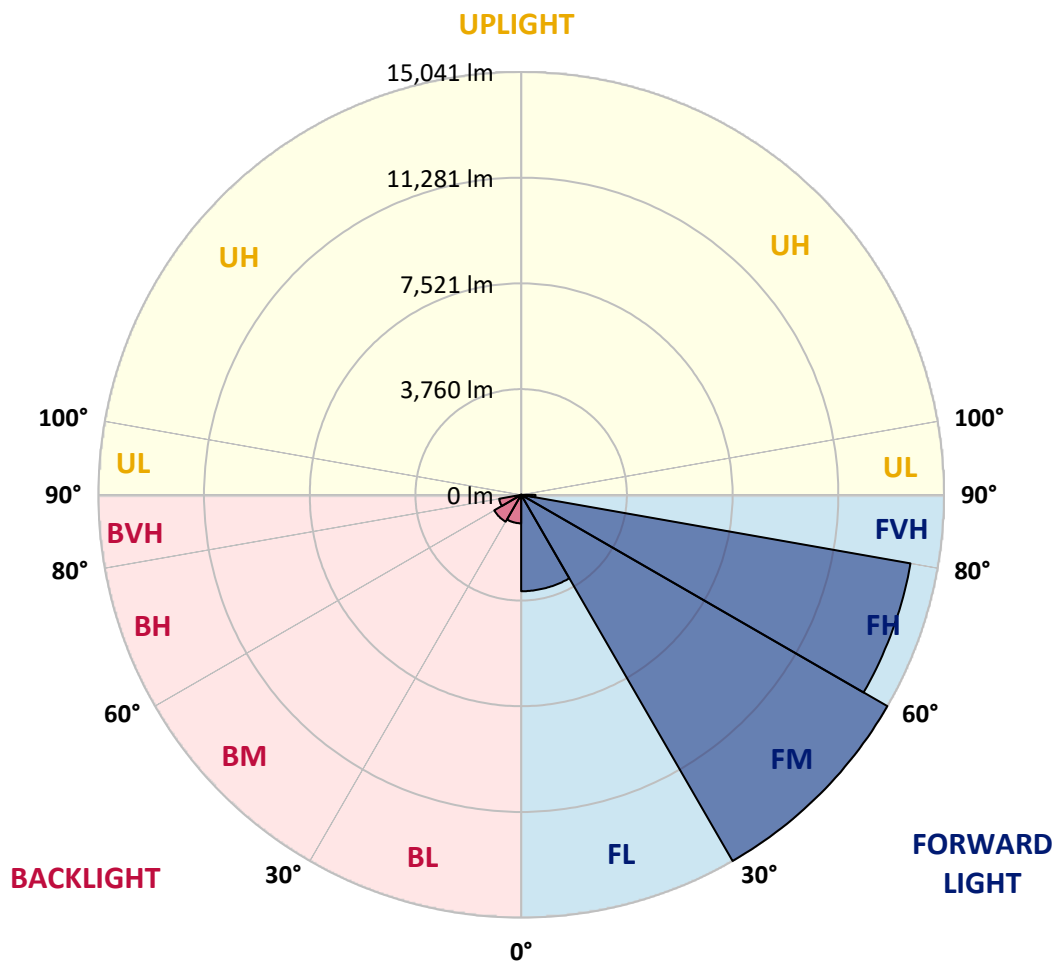
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3429.2	9.5			
FM	(30°-60°)	15041.2	41.8			
FH	(60°-80°)	14062.6	39.1			G5
FVH	(80°-90°)	506.8	1.4			G4/750
BL	(0°-30°)	1013.9	2.8	B3/2500		
BM	(30°-60°)	1103.7	3.1	B2/2500		
BH	(60°-80°)	795.5	2.2	B2/1000		G2/1000
BVH	(80°-90°)	16.1	0.0			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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	9362.2	9362.2	9362.2	9362.2	9362.2	9362.2	9362.2	9362.2	9362.2	9362.2	9362.2
2.5°	10261.2	10257.2	10212.4	10192.1	10155.5	10078.2	9958.2	9895.1	9793.4	9616.5	9378.5
5°	10167.7	10216.5	10242.9	10245.0	10271.4	10242.9	10135.1	10082.2	9941.9	9657.2	9230.0
7.5°	9533.1	9551.4	9626.6	9691.7	9817.8	9937.8	9976.5	9954.1	9870.7	9565.6	8998.2
10°	8853.7	8872.1	8961.5	9047.0	9217.8	9402.9	9598.2	9638.8	9673.4	9435.5	8774.4
12.5°	8268.0	8286.3	8377.8	8489.7	8689.0	8916.8	9219.9	9287.0	9439.5	9311.4	8595.4
15°	7763.6	7771.7	7861.2	7999.5	8237.5	8530.4	8874.1	8981.9	9215.8	9223.9	8438.8
17.5°	7334.4	7354.7	7409.6	7541.9	7802.2	8164.2	8564.9	8719.5	8994.1	9150.7	8286.3
20°	7072.0	7092.4	7090.3	7163.5	7397.4	7783.9	8255.8	8440.9	8774.4	9075.4	8150.0
22.5°	7021.2	7021.2	6968.3	6958.1	7096.4	7419.8	7934.4	8160.2	8577.1	9042.9	8054.4
25°	7202.2	7194.1	7061.8	6954.0	6960.1	7153.4	7623.2	7891.7	8410.3	9065.3	8003.6
27.5°	7584.6	7574.4	7407.6	7202.2	7037.4	7035.4	7387.3	7676.1	8278.1	9171.0	8023.9
30°	8113.4	8109.3	7928.3	7670.0	7371.0	7096.4	7305.9	7568.3	8192.7	9362.2	8070.7
32.5°	8691.0	8684.9	8548.7	8276.1	7897.8	7371.0	7391.3	7611.0	8217.1	9616.5	8184.6
35°	9303.2	9293.1	9234.1	8996.1	8579.2	7877.5	7672.0	7842.9	8371.7	9996.8	8408.3
37.5°	9966.3	9976.5	10019.2	9791.4	9354.1	8587.3	8141.9	8257.8	8682.9	10513.4	8772.4
40°	10944.6	10942.6	10956.8	10657.9	10236.8	9455.8	8798.8	8835.4	9203.6	11198.9	9325.6
42.5°	12720.3	12596.2	12219.9	11609.7	11186.7	10448.4	9626.6	9588.0	9840.2	12047.0	10100.6
45°	15106.1	14841.7	13865.4	12695.9	12154.8	11567.0	10645.7	10521.6	10682.3	13066.0	11056.5
47.5°	17158.3	16883.7	15502.7	13826.7	13182.0	12628.7	11839.6	11615.8	11668.7	14207.1	12268.7
50°	17856.0	17721.7	16515.6	14811.2	14176.6	13965.0	13224.7	12952.1	12876.9	15527.1	13674.2
52.5°	17613.9	17603.8	16800.4	15449.8	15087.8	15348.1	14967.8	14652.5	14375.9	16918.3	15104.1
55°	17225.5	17276.3	16916.3	16009.2	15997.0	16611.2	17351.6	17089.2	16287.8	18429.5	16336.6
57.5°	16153.6	16371.2	16851.2	17066.8	17567.2	18195.6	19336.7	19491.3	18543.4	19586.9	17359.7
60°	13106.7	13584.7	15154.9	17219.4	19590.9	21157.1	21732.7	21864.9	20394.3	20548.9	18740.7
62.5°	9303.2	9791.4	11782.6	15274.9	19621.4	25048.0	25302.2	24783.6	22432.3	21974.7	21122.5
65°	4938.4	5314.7	6941.8	11026.0	17011.9	25951.1	31544.4	29998.6	26028.4	24779.5	24199.8
67.5°	2526.2	2640.1	3286.8	5396.0	11695.2	23050.7	37139.8	38227.9	32225.8	27561.9	24051.4
69°	2235.3	2302.4	2731.6	3901.1	7489.0	19523.8	37412.3	41053.1	35469.9	27330.1	21856.7
70°	2164.1	2223.1	2613.6	3530.9	5853.7	16373.2	36368.9	40804.9	36299.8	26447.3	20217.4
72.5°	1836.6	1887.5	2326.8	3120.1	4757.4	8127.6	29543.0	34577.0	32573.6	22031.7	14634.2
75°	1228.5	1395.3	2233.3	2924.8	4425.9	4617.0	19477.0	24987.0	23211.3	14860.0	7623.2
77.5°	294.9	317.3	630.5	2326.8	4047.5	4063.8	10017.2	15533.2	12669.4	5296.4	1802.1
80°	158.6	152.5	177.0	461.7	3768.9	3813.6	4509.2	7539.8	4523.5	878.7	593.9
82.5°	111.9	105.8	113.9	193.2	1185.8	3474.0	3262.4	3413.0	1875.3	337.6	266.4
85°	40.7	38.6	63.1	174.9	372.2	1997.3	3351.9	2815.0	1519.4	154.6	195.3
87.5°	14.2	12.2	24.4	95.6	113.9	850.2	2068.5	2127.5	598.0	93.6	91.5
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°	9362.2	9362.2	9362.2	9362.2	9362.2	9362.2	9362.2	9362.2	9362.2	9362.2	9362.2
2.5°	9278.8	9152.7	8920.9	8682.9	8463.2	8198.8	8066.6	7936.4	7881.5	7861.2	7765.6
5°	9010.4	8796.8	8304.6	7810.3	7354.7	6870.7	6551.3	6295.0	6144.5	6071.3	5955.4
7.5°	8666.6	8316.8	7570.3	6807.6	6097.8	5398.1	4879.4	4480.8	4206.2	4074.0	3954.0
10°	8333.1	7867.3	6805.6	5766.2	4802.1	3874.7	3158.7	2640.1	2308.5	2156.0	2058.3
12.5°	8034.1	7430.0	6067.2	4751.3	3541.1	2455.0	1726.8	1313.9	1108.5	1037.3	1002.7
15°	7767.6	7027.3	5369.6	3787.2	2398.0	1403.4	943.7	803.4	770.9	770.9	766.8
17.5°	7515.4	6632.7	4696.4	2882.1	1505.1	858.3	718.0	699.7	699.7	707.8	707.8
20°	7273.4	6256.4	4045.5	2068.5	947.8	681.4	648.8	644.8	648.8	659.0	659.0
22.5°	7065.9	5914.7	3437.4	1419.7	703.7	614.3	598.0	591.9	593.9	600.0	604.1
25°	6911.3	5625.9	2863.8	962.1	606.1	559.3	541.0	530.9	522.7	522.7	526.8
27.5°	6813.7	5381.8	2308.5	699.7	545.1	508.5	480.0	463.7	445.4	435.3	439.3
30°	6742.5	5149.9	1787.8	571.5	488.1	451.5	414.9	388.5	362.0	349.8	353.9
32.5°	6716.1	4962.8	1336.3	504.4	437.3	396.6	351.9	317.3	288.8	278.7	280.7
35°	6787.3	4814.3	978.3	455.6	396.6	345.8	294.9	256.3	233.9	227.8	229.8
37.5°	6974.4	4735.0	732.2	414.9	360.0	303.1	246.1	209.5	195.3	195.3	197.3
40°	7328.3	4733.0	587.8	386.4	327.5	262.4	203.4	177.0	168.8	172.9	174.9
42.5°	7844.9	4840.8	512.6	360.0	299.0	223.7	168.8	150.5	148.5	152.5	154.6
45°	8550.7	5038.1	471.9	337.6	268.5	187.1	142.4	130.2	130.2	136.3	138.3
47.5°	9415.1	5326.9	437.3	315.3	238.0	156.6	122.0	113.9	115.9	122.0	124.1
50°	10456.5	5691.0	402.7	290.9	215.6	130.2	105.8	99.7	101.7	109.8	111.9
52.5°	11642.3	6181.1	374.2	268.5	187.1	107.8	89.5	85.4	89.5	97.6	99.7
55°	12659.3	6620.5	339.7	250.2	150.5	89.5	73.2	73.2	77.3	87.5	89.5
57.5°	13637.6	7080.2	309.2	215.6	118.0	71.2	61.0	63.1	69.2	79.3	81.4
60°	15073.5	7859.2	272.5	181.0	89.5	57.0	50.8	52.9	61.0	71.2	73.2
62.5°	17512.2	9044.9	235.9	150.5	69.2	44.7	40.7	44.7	54.9	67.1	69.2
65°	19713.0	9527.0	193.2	126.1	52.9	34.6	34.6	40.7	52.9	65.1	67.1
67.5°	18486.5	8019.8	150.5	99.7	40.7	26.4	28.5	38.6	50.8	65.1	67.1
69°	16348.8	6557.4	128.1	79.3	34.6	24.4	26.4	38.6	50.8	63.1	65.1
70°	14683.0	5536.4	113.9	67.1	30.5	24.4	26.4	36.6	50.8	63.1	65.1
72.5°	9834.1	2989.9	91.5	48.8	28.5	22.4	22.4	36.6	48.8	61.0	63.1
75°	4226.5	825.8	73.2	34.6	24.4	20.3	20.3	34.6	46.8	59.0	63.1
77.5°	772.9	209.5	59.0	30.5	24.4	20.3	18.3	32.5	44.7	57.0	59.0
80°	307.1	103.7	46.8	26.4	22.4	18.3	16.3	30.5	42.7	54.9	57.0
82.5°	185.1	59.0	38.6	24.4	22.4	16.3	14.2	26.4	40.7	52.9	54.9
85°	150.5	40.7	30.5	24.4	20.3	16.3	12.2	24.4	36.6	50.8	52.9
87.5°	73.2	28.5	28.5	22.4	20.3	16.3	12.2	22.4	34.6	48.8	50.8
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)