

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: P193677

Luminaire Tested: **GLEON-AF-09-LED-E1-SL3-8030-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193677  
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-09-LED-E1-SL3-8030-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 3000K, 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: 37097 lumens  
Efficiency: N/A  
Efficacy: 74.0 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Non-Cutoff  
BUG Rating: B3 - U0 - G5

Input Watts (W): 501  
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

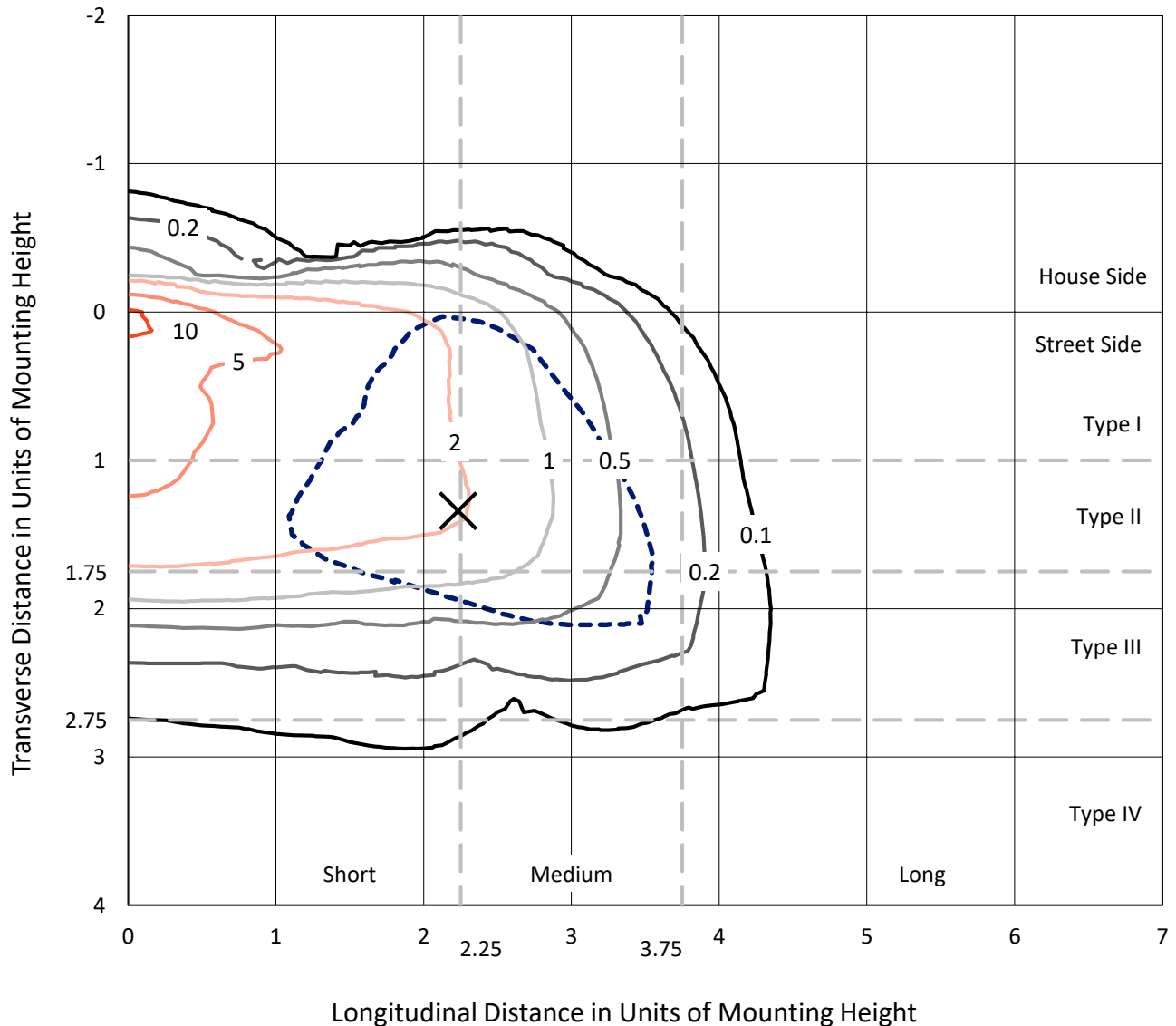


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

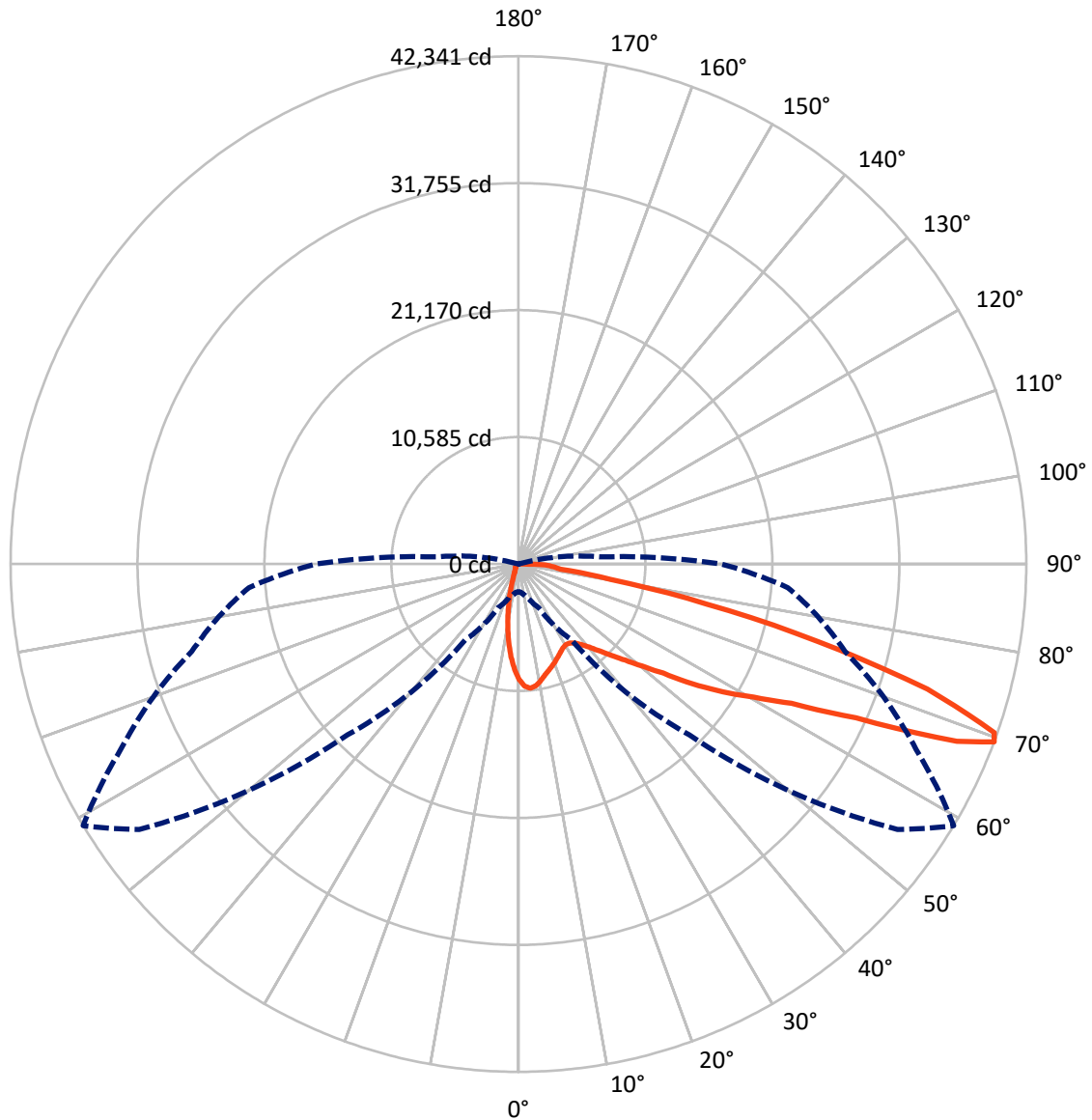


Based on 30 foot mounting height. Maximum calculated value = 10.8 fc  
 Type III - Short - Non-Cutoff

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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	3021.1	0.0	3021.1
	% Fixture	8.1	0.0	8.1
<b>Street Side</b>	Lumens	34075.9	0.0	34075.9
	% Fixture	91.9	0.0	91.9
<b>Total</b>	Lumens	37097.0	0.0	37097.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	783.8	2.1
10°-20°	1619.5	4.4
20°-30°	2179.2	5.9
30°-40°	3164.1	8.5
40°-50°	5268.4	14.2
50°-60°	8218.7	22.2
60°-70°	10170.0	27.4
70°-80°	5154.0	13.9
80°-90°	539.3	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°	37097.0	100.0
0°-180°	37097.0	100.0



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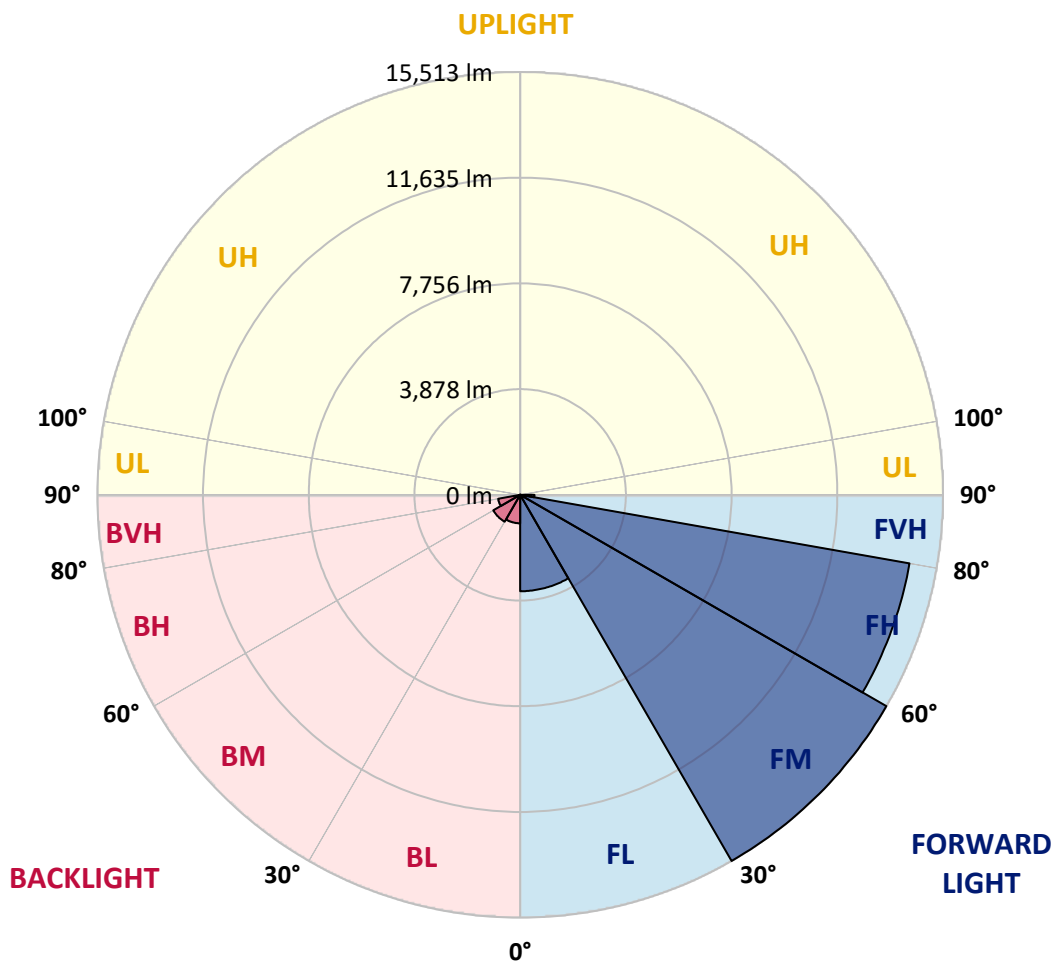
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3536.8	9.5			
FM (30°-60°)	15512.9	41.8			
FH (60°-80°)	14503.6	39.1			G5
FVH (80°-90°)	522.7	1.4			G4/750
BL (0°-30°)	1045.7	2.8	B3/2500		
BM (30°-60°)	1138.3	3.1	B2/2500		
BH (60°-80°)	820.4	2.2	B2/1000		G2/1000
BVH (80°-90°)	16.6	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°	9655.8	9655.8	9655.8	9655.8	9655.8	9655.8	9655.8	9655.8	9655.8	9655.8	9655.8
2.5°	10583.0	10578.8	10532.7	10511.7	10473.9	10394.2	10270.5	10205.4	10100.6	9918.1	9672.6
5°	10486.5	10536.9	10564.2	10566.2	10593.5	10564.2	10453.0	10398.4	10253.7	9960.0	9519.5
7.5°	9832.0	9850.9	9928.5	9995.7	10125.7	10249.5	10289.3	10266.3	10180.3	9865.6	9280.3
10°	9131.4	9150.3	9242.6	9330.7	9506.9	9697.8	9899.2	9941.1	9976.8	9731.4	9049.6
12.5°	8527.3	8546.1	8640.5	8755.9	8961.5	9196.4	9509.0	9578.2	9735.5	9603.4	8865.0
15°	8007.0	8015.4	8107.7	8250.4	8495.8	8797.9	9152.4	9263.6	9504.8	9513.2	8703.5
17.5°	7564.4	7585.4	7642.0	7778.4	8046.9	8420.3	8833.5	8993.0	9276.1	9437.7	8546.1
20°	7293.8	7314.8	7312.7	7388.2	7629.4	8028.0	8514.7	8705.6	9049.6	9360.1	8405.6
22.5°	7241.4	7241.4	7186.8	7176.3	7319.0	7652.5	8183.2	8416.1	8846.1	9326.5	8307.0
25°	7428.1	7419.7	7283.3	7172.1	7178.4	7377.7	7862.3	8139.2	8674.1	9349.6	8254.6
27.5°	7822.4	7811.9	7639.9	7428.1	7258.1	7256.0	7618.9	7916.8	8537.7	9458.6	8275.5
30°	8367.8	8363.6	8176.9	7910.5	7602.2	7319.0	7535.0	7805.6	8449.6	9655.8	8323.8
32.5°	8963.6	8957.3	8816.7	8535.7	8145.5	7602.2	7623.1	7849.7	8474.8	9918.1	8441.3
35°	9595.0	9584.5	9523.7	9278.2	8848.2	8124.5	7912.6	8088.8	8634.2	10310.3	8672.0
37.5°	10278.9	10289.3	10333.4	10098.5	9647.4	8856.6	8397.2	8516.8	8955.2	10843.1	9047.5
40°	11287.9	11285.8	11300.5	10992.1	10557.9	9752.3	9074.8	9112.5	9492.2	11550.1	9618.1
42.5°	13119.2	12991.2	12603.1	11973.8	11537.5	10776.0	9928.5	9888.7	10148.8	12424.8	10417.3
45°	15579.8	15307.1	14300.2	13094.0	12536.0	11929.8	10979.5	10851.5	11017.3	13475.8	11403.2
47.5°	17696.4	17413.2	15988.9	14260.3	13595.4	13024.8	12210.9	11980.1	12034.7	14652.6	12653.5
50°	18415.9	18277.5	17033.5	15275.6	14621.2	14403.0	13639.4	13358.3	13280.7	16014.0	14103.0
52.5°	18166.3	18155.8	17327.2	15934.3	15560.9	15829.4	15437.2	15112.0	14826.7	17448.9	15577.7
55°	17765.6	17818.1	17446.8	16511.2	16498.6	17132.1	17895.7	17625.1	16798.6	19007.5	16848.9
57.5°	16660.1	16884.6	17379.7	17602.0	18118.1	18766.3	19943.1	20102.5	19125.0	20201.1	17904.1
60°	13517.8	14010.7	15630.2	17759.4	20205.3	21820.6	22414.2	22550.6	21033.9	21193.3	19328.5
62.5°	9595.0	10098.5	12152.1	15753.9	20236.8	25833.5	26095.7	25560.8	23135.8	22663.8	21784.9
65°	5093.3	5481.4	7159.5	11371.8	17545.4	26764.9	32533.6	30939.4	26844.6	25556.6	24958.8
67.5°	2605.4	2722.8	3389.9	5565.3	12061.9	23773.5	38304.5	39426.8	33236.4	28426.3	24805.6
69°	2305.4	2374.6	2817.2	4023.4	7723.8	20136.1	38585.6	42340.5	36582.3	28187.2	22542.2
70°	2232.0	2292.8	2695.6	3641.7	6037.3	16886.7	37509.5	42084.6	37438.1	27276.7	20851.4
72.5°	1894.2	1946.7	2399.8	3217.9	4906.6	8382.5	30469.5	35661.4	33595.1	22722.6	15093.1
75°	1267.0	1439.0	2303.3	3016.5	4564.7	4761.8	20087.8	25770.6	23939.3	15326.0	7862.3
77.5°	304.2	327.2	650.3	2399.8	4174.5	4191.3	10331.3	16020.3	13066.7	5462.5	1858.6
80°	163.6	157.3	182.5	476.2	3887.1	3933.2	4650.7	7776.3	4665.3	906.2	612.5
82.5°	115.4	109.1	117.5	199.3	1223.0	3582.9	3364.8	3520.0	1934.1	348.2	274.8
85°	42.0	39.9	65.0	180.4	383.9	2060.0	3457.1	2903.3	1567.0	159.4	201.4
87.5°	14.7	12.6	25.2	98.6	117.5	876.8	2133.4	2194.2	616.7	96.5	94.4
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°	9655.8	9655.8	9655.8	9655.8	9655.8	9655.8	9655.8	9655.8	9655.8	9655.8	9655.8
2.5°	9569.8	9439.8	9200.6	8955.2	8728.6	8455.9	8319.6	8185.3	8128.7	8107.7	8009.1
5°	9292.9	9072.7	8565.0	8055.3	7585.4	7086.1	6756.8	6492.5	6337.2	6261.7	6142.1
7.5°	8938.4	8577.6	7807.7	7021.1	6289.0	5567.4	5032.4	4621.3	4338.1	4201.7	4078.0
10°	8594.4	8114.0	7019.0	5947.1	4952.7	3996.2	3257.8	2722.8	2380.9	2223.6	2122.9
12.5°	8286.0	7663.0	6257.5	4900.3	3652.1	2532.0	1781.0	1355.1	1143.3	1069.8	1034.2
15°	8011.2	7247.6	5538.0	3906.0	2473.2	1447.4	973.3	828.6	795.0	795.0	790.8
17.5°	7751.1	6840.7	4843.7	2972.5	1552.3	885.2	740.5	721.6	721.6	730.0	730.0
20°	7501.5	6452.6	4172.4	2133.4	977.5	702.7	669.2	665.0	669.2	679.7	679.7
22.5°	7287.5	6100.2	3545.2	1464.2	725.8	633.5	616.7	610.4	612.5	618.8	623.0
25°	7128.1	5802.3	2953.6	992.2	625.1	576.9	558.0	547.5	539.1	539.1	543.3
27.5°	7027.4	5550.6	2380.9	721.6	562.2	524.4	495.1	478.3	459.4	448.9	453.1
30°	6954.0	5311.4	1843.9	589.5	503.5	465.7	427.9	400.7	373.4	360.8	365.0
32.5°	6926.7	5118.5	1378.2	520.2	451.0	409.1	362.9	327.2	297.9	287.4	289.5
35°	7000.1	4965.3	1009.0	469.9	409.1	356.6	304.2	264.3	241.2	234.9	237.0
37.5°	7193.1	4883.5	755.2	427.9	371.3	312.6	253.8	216.1	201.4	201.4	203.5
40°	7558.1	4881.4	606.2	398.6	337.7	270.6	209.8	182.5	174.1	178.3	180.4
42.5°	8090.9	4992.6	528.6	371.3	308.4	230.7	174.1	155.2	153.1	157.3	159.4
45°	8818.8	5196.1	486.7	348.2	276.9	193.0	146.8	134.3	134.3	140.5	142.6
47.5°	9710.4	5493.9	451.0	325.1	245.4	161.5	125.9	117.5	119.6	125.9	128.0
50°	10784.4	5869.4	415.3	300.0	222.4	134.3	109.1	102.8	104.9	113.3	115.4
52.5°	12007.4	6375.0	386.0	276.9	193.0	111.2	92.3	88.1	92.3	100.7	102.8
55°	13056.3	6828.1	350.3	258.0	155.2	92.3	75.5	75.5	79.7	90.2	92.3
57.5°	14065.3	7302.2	318.9	222.4	121.7	73.4	62.9	65.0	71.3	81.8	83.9
60°	15546.3	8105.6	281.1	186.7	92.3	58.7	52.4	54.5	62.9	73.4	75.5
62.5°	18061.4	9328.6	243.3	155.2	71.3	46.1	42.0	46.1	56.6	69.2	71.3
65°	20331.2	9825.8	199.3	130.1	54.5	35.7	35.7	42.0	54.5	67.1	69.2
67.5°	19066.2	8271.3	155.2	102.8	42.0	27.3	29.4	39.9	52.4	67.1	69.2
69°	16861.5	6763.1	132.2	81.8	35.7	25.2	27.3	39.9	52.4	65.0	67.1
70°	15143.5	5710.0	117.5	69.2	31.5	25.2	27.3	37.8	52.4	65.0	67.1
72.5°	10142.5	3083.7	94.4	50.3	29.4	23.1	23.1	37.8	50.3	62.9	65.0
75°	4359.1	851.7	75.5	35.7	25.2	21.0	21.0	35.7	48.2	60.8	65.0
77.5°	797.1	216.1	60.8	31.5	25.2	21.0	18.9	33.6	46.1	58.7	60.8
80°	316.8	107.0	48.2	27.3	23.1	18.9	16.8	31.5	44.1	56.6	58.7
82.5°	190.9	60.8	39.9	25.2	23.1	16.8	14.7	27.3	42.0	54.5	56.6
85°	155.2	42.0	31.5	25.2	21.0	16.8	12.6	25.2	37.8	52.4	54.5
87.5°	75.5	29.4	29.4	23.1	21.0	16.8	12.6	23.1	35.7	50.3	52.4
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)