

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: P192007

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4-7050-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192007  
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-09-LED-E1-SL4-7050-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 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: 34894 lumens  
Efficiency: N/A  
Efficacy: 93.3 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): 374  
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

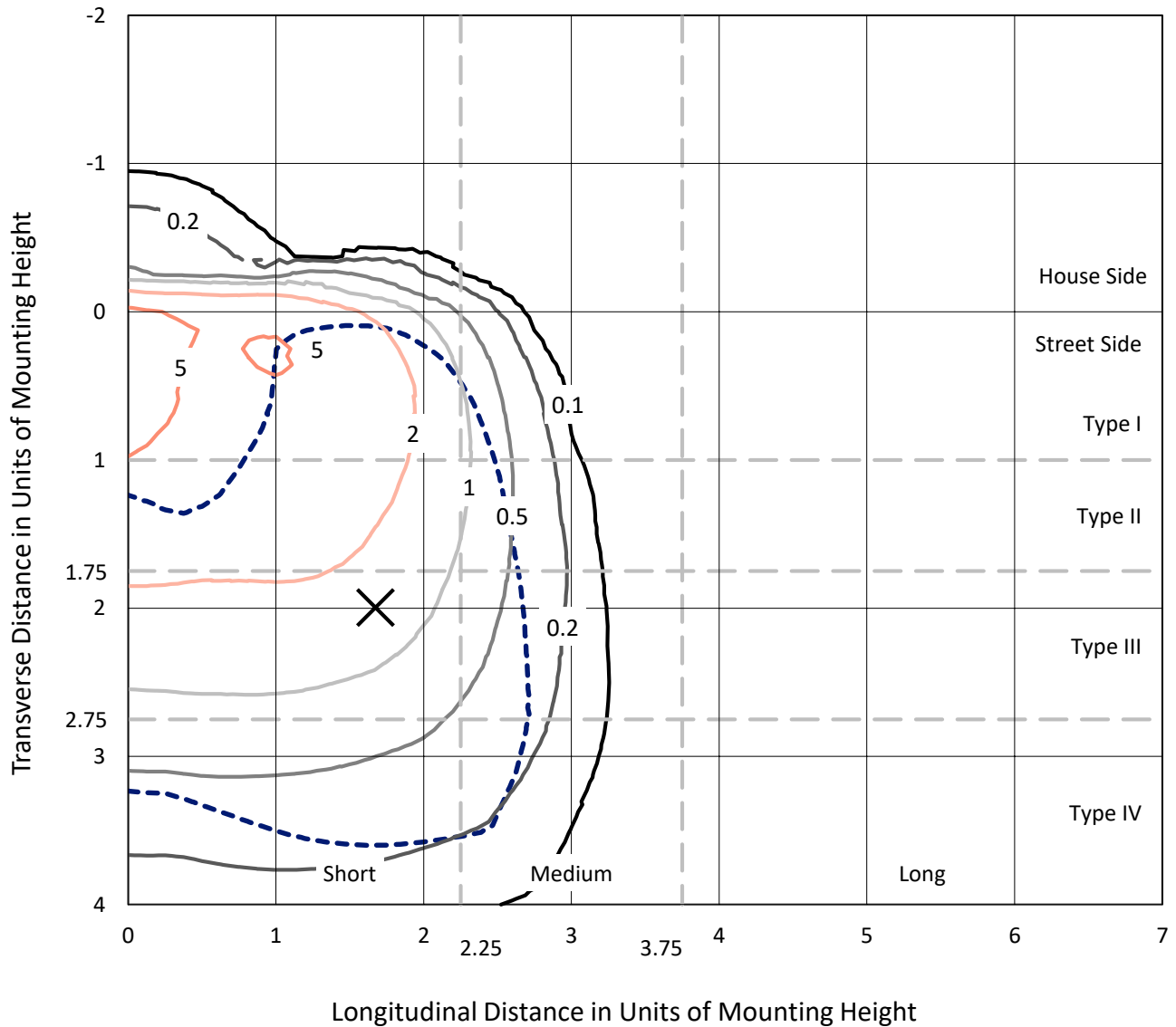


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

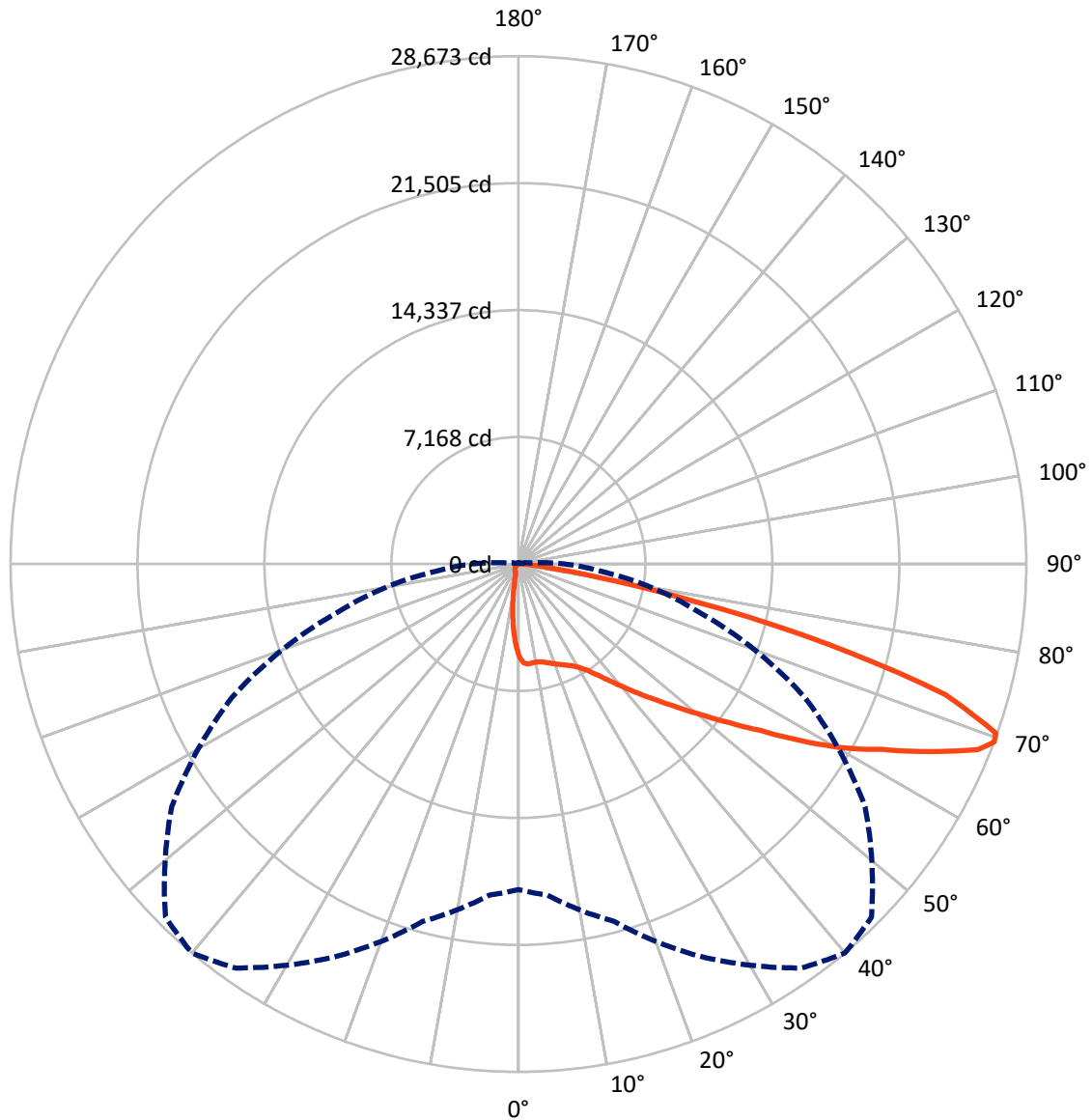


Based on 30 foot mounting height. Maximum calculated value = 6.3 fc  
 Type IV - Short - Semi-Cutoff

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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
<b>House Side</b>	Lumens	2041.5	0.0	2041.5
	% Fixture	5.9	0.0	5.9
<b>Street Side</b>	Lumens	32852.5	0.0	32852.5
	% Fixture	94.1	0.0	94.1
<b>Total</b>	Lumens	34894.0	0.0	34894.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	422.7	1.2
10°-20°	1039.5	3.0
20°-30°	1750.9	5.0
30°-40°	2866.2	8.2
40°-50°	4962.8	14.2
50°-60°	7816.9	22.4
60°-70°	10208.5	29.3
70°-80°	5257.8	15.1
80°-90°	568.7	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°	34894.0	100.0
0°-180°	34894.0	100.0

**Coefficient of Utilization**



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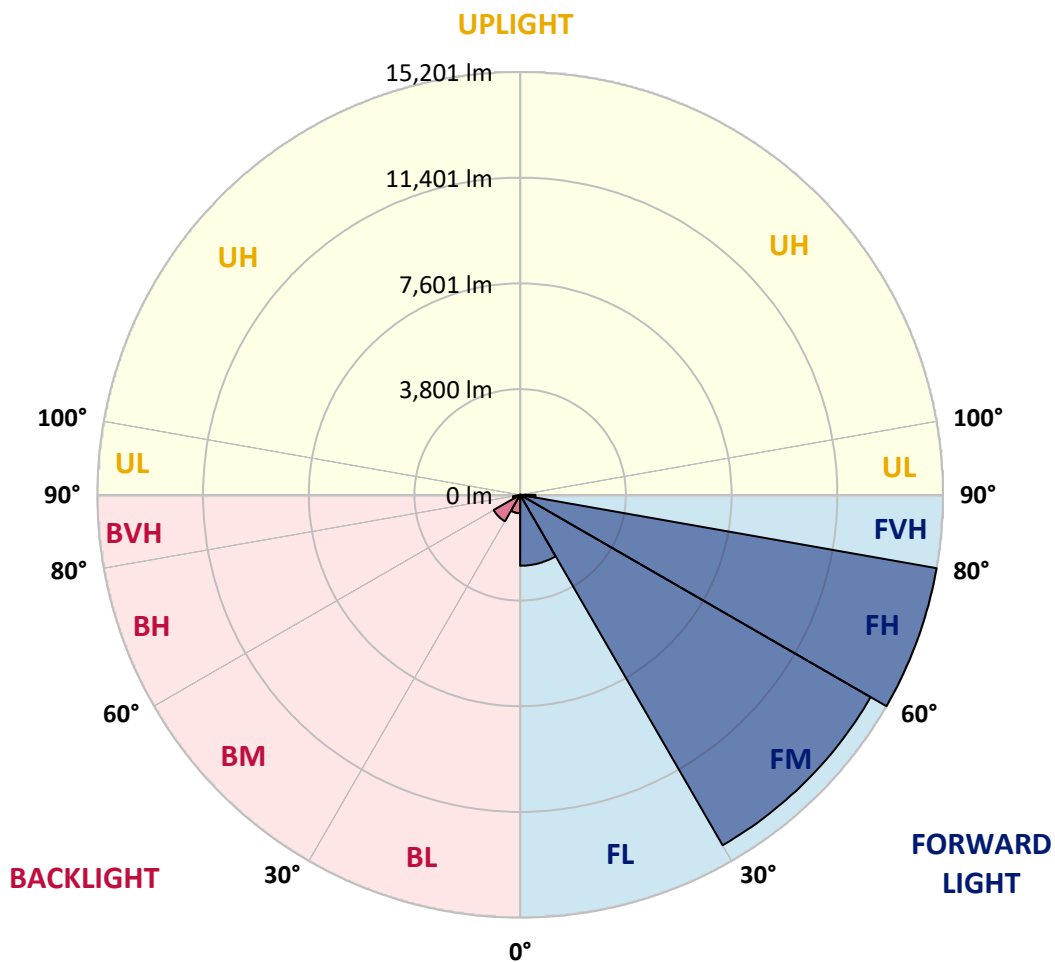
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2551.7	7.3			
FM (30°-60°)	14548.6	41.7			
FH (60°-80°)	15201.3	43.6			G5
FVH (80°-90°)	550.9	1.6			G4/750
BL (0°-30°)	661.3	1.9	B2/1000		
BM (30°-60°)	1097.3	3.1	B2/2500		
BH (60°-80°)	265.1	0.8	B1/500		G1/500
BVH (80°-90°)	17.9	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°	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3
2.5°	5724.3	5693.1	5674.4	5649.5	5618.4	5591.4	5581.0	5504.1	5431.4	5331.7	5217.5
5°	5830.2	5819.8	5786.6	5753.4	5716.0	5674.4	5651.6	5560.2	5456.4	5311.0	5111.6
7.5°	5840.6	5828.1	5786.6	5740.9	5689.0	5639.1	5599.7	5508.3	5412.7	5265.3	5022.3
10°	5824.0	5809.5	5778.3	5728.4	5664.1	5616.3	5576.8	5489.6	5408.6	5275.7	5005.6
12.5°	5805.3	5790.8	5776.2	5751.3	5695.2	5662.0	5628.7	5545.7	5473.0	5360.8	5065.9
15°	5824.0	5815.7	5832.3	5821.9	5790.8	5761.7	5728.4	5653.7	5587.2	5493.7	5176.0
17.5°	5902.9	5902.9	5954.8	5961.1	5932.0	5890.5	5842.7	5767.9	5711.8	5632.9	5306.8
20°	6087.8	6081.5	6148.0	6160.5	6089.8	6025.5	5954.8	5863.5	5819.8	5770.0	5435.6
22.5°	6405.6	6376.5	6415.9	6403.5	6264.3	6164.6	6077.4	5965.2	5942.4	5919.5	5578.9
25°	6818.9	6802.3	6829.3	6706.7	6461.6	6326.6	6222.8	6096.1	6096.1	6118.9	5740.9
27.5°	7419.1	7356.8	7265.4	7049.4	6681.8	6509.4	6397.2	6262.2	6297.6	6382.7	5954.8
30°	8033.9	7965.4	7755.6	7423.3	6949.7	6769.0	6638.2	6496.9	6580.0	6735.8	6241.5
32.5°	8640.4	8563.6	8266.6	7847.0	7334.0	7153.3	7026.6	6870.8	7010.0	7271.7	6661.0
35°	9228.2	9159.7	8817.0	8322.7	7844.9	7695.4	7579.1	7444.1	7622.7	7988.3	7253.0
37.5°	9888.7	9814.0	9396.5	8860.6	8466.0	8358.0	8272.8	8137.8	8449.4	8985.2	8077.6
40°	10700.9	10574.2	10011.3	9477.5	9184.6	9132.7	9074.5	9055.8	9539.8	10281.3	9176.3
42.5°	11631.4	11423.7	10655.2	10127.6	9973.9	10011.3	9996.7	10079.8	10904.4	11893.1	10513.9
45°	12561.9	12293.9	11371.7	10821.3	10842.1	10972.9	11053.9	11386.3	12613.8	13741.6	11953.3
47.5°	13351.1	13087.4	12059.2	11571.1	11820.4	12077.9	12298.1	12927.4	14371.0	15561.1	13072.8
50°	14026.2	13776.9	12788.3	12395.7	12956.5	13371.9	13729.2	14661.7	16261.1	16946.5	13857.9
52.5°	14578.7	14412.5	13544.3	13340.8	14254.7	14863.2	15386.6	16504.1	17935.1	18072.2	14468.6
55°	15116.6	14998.2	14356.4	14464.4	15779.2	16607.9	17270.5	18458.6	19376.6	19011.0	15054.3
57.5°	15735.6	15627.6	15282.8	15889.3	17783.5	18826.2	19549.0	20190.8	20645.7	19970.6	15606.8
60°	16367.0	16304.7	16313.0	17472.0	20084.9	21086.0	21484.8	21651.0	21891.9	20874.1	15638.0
62.5°	16969.3	17087.7	17490.7	19233.3	22288.6	23057.1	23258.6	23422.7	23140.2	21017.5	14447.8
65°	17989.1	18182.3	19144.0	21590.7	24712.5	25535.0	25742.7	25179.8	23337.5	19164.7	11751.8
67.5°	18487.6	18840.7	20556.4	23788.2	27063.7	27977.6	27900.7	25294.1	20942.7	14614.0	7541.7
69°	18383.8	18759.7	20882.5	24461.2	27844.7	28673.4	28185.3	23896.2	17841.7	10586.6	4629.7
70°	17972.5	18352.6	20714.2	24436.2	27944.3	28600.7	27657.7	22170.2	15085.5	7741.1	2895.4
72.5°	15008.6	15336.8	18390.0	22087.1	25742.7	25208.9	23138.1	15359.6	7350.6	2108.2	652.2
75°	9238.6	9421.4	13195.4	16639.1	19443.1	18072.2	15415.7	7641.4	2191.3	596.1	361.4
77.5°	4881.0	4964.1	7223.9	9807.7	12325.1	10198.2	7901.0	2980.5	1009.4	373.9	261.7
80°	2885.0	2947.3	3890.3	4484.3	5333.8	4455.2	3159.2	1829.9	722.8	234.7	232.6
82.5°	1651.2	1690.7	2820.6	2492.4	2102.0	1794.6	1572.3	1734.3	434.1	157.9	240.9
85°	606.5	614.8	1586.9	1896.3	1250.4	743.6	781.0	1437.3	116.3	99.7	189.0
87.5°	282.5	276.2	816.3	1161.1	731.1	471.5	608.6	315.7	45.7	64.4	51.9
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°	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3	5213.3
2.5°	5151.0	5074.2	4935.0	4791.7	4646.3	4534.2	4424.1	4336.8	4307.8	4253.8	4257.9
5°	4993.2	4851.9	4561.2	4266.2	3958.8	3705.4	3466.6	3273.4	3179.9	3084.4	3084.4
7.5°	4856.1	4650.5	4195.6	3715.8	3219.4	2801.9	2426.0	2143.5	1987.7	1863.1	1861.0
10°	4804.2	4525.8	3890.3	3202.8	2511.1	1942.0	1495.5	1208.8	1061.4	965.8	961.7
12.5°	4827.0	4482.2	3655.6	2729.2	1861.0	1248.3	866.1	681.3	619.0	589.9	589.9
15°	4893.5	4469.8	3420.9	2266.0	1314.8	781.0	575.3	525.5	521.3	521.3	521.3
17.5°	4974.5	4473.9	3179.9	1815.3	895.2	558.7	496.4	490.2	494.3	494.3	494.3
20°	5057.6	4476.0	2920.3	1397.8	631.4	486.0	467.3	465.3	469.4	469.4	471.5
22.5°	5159.3	4486.4	2660.7	1044.7	521.3	459.0	444.5	444.5	446.6	446.6	444.5
25°	5275.7	4507.2	2390.7	774.7	475.6	440.3	427.9	425.8	427.9	425.8	423.7
27.5°	5421.0	4536.2	2089.5	606.5	454.9	421.6	411.3	411.3	409.2	407.1	405.0
30°	5603.8	4569.5	1750.9	515.1	434.1	405.0	394.6	392.6	390.5	386.3	386.3
32.5°	5882.1	4642.2	1416.5	467.3	411.3	382.2	373.9	373.9	369.7	365.6	363.5
35°	6310.0	4785.5	1117.4	438.3	386.3	357.2	346.9	346.9	342.7	340.6	338.6
37.5°	6902.0	5003.6	868.2	411.3	361.4	330.2	319.9	317.8	313.6	309.5	307.4
40°	7689.2	5273.6	683.3	386.3	336.5	303.2	294.9	290.8	282.5	276.2	276.2
42.5°	8677.8	5581.0	554.6	359.3	307.4	278.3	272.1	265.9	251.3	245.1	243.0
45°	9712.2	5857.2	469.4	328.2	278.3	253.4	249.2	238.9	220.2	213.9	213.9
47.5°	10457.8	5921.6	413.3	299.1	251.3	226.4	224.3	205.6	189.0	184.9	182.8
50°	10923.1	5794.9	367.6	270.0	226.4	201.5	195.2	172.4	162.0	157.9	155.8
52.5°	11236.7	5568.5	330.2	245.1	203.5	178.6	164.1	147.5	139.2	135.0	135.0
55°	11488.0	5248.7	292.9	222.2	184.9	159.9	139.2	126.7	118.4	114.2	114.2
57.5°	11558.7	4814.6	255.5	203.5	166.2	141.2	118.4	110.1	99.7	97.6	97.6
60°	11045.6	4031.5	226.4	180.7	149.5	122.5	103.9	93.5	83.1	81.0	78.9
62.5°	9693.5	3119.7	199.4	159.9	130.9	105.9	89.3	76.9	68.5	68.5	68.5
65°	7394.2	2091.6	174.5	139.2	114.2	89.3	76.9	62.3	58.2	58.2	60.2
67.5°	4426.1	1138.2	149.5	118.4	97.6	74.8	64.4	54.0	51.9	54.0	54.0
69°	2594.2	668.8	135.0	105.9	85.2	66.5	56.1	47.8	51.9	54.0	54.0
70°	1601.4	450.7	124.6	95.5	76.9	60.2	51.9	45.7	49.8	51.9	51.9
72.5°	446.6	232.6	99.7	74.8	62.3	49.8	41.5	41.5	47.8	49.8	49.8
75°	290.8	172.4	76.9	56.1	47.8	39.5	35.3	39.5	45.7	47.8	47.8
77.5°	240.9	141.2	62.3	45.7	39.5	37.4	33.2	35.3	41.5	43.6	43.6
80°	220.2	99.7	49.8	41.5	35.3	33.2	31.2	29.1	37.4	39.5	39.5
82.5°	209.8	78.9	43.6	37.4	33.2	29.1	27.0	29.1	33.2	35.3	37.4
85°	130.9	51.9	39.5	35.3	29.1	27.0	27.0	27.0	31.2	33.2	33.2
87.5°	47.8	41.5	35.3	29.1	24.9	24.9	24.9	24.9	27.0	31.2	31.2
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)