

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: P456982

Luminaire Tested: **GALN-SA8B-740-U-SL2-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P456982  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 4000K, 800mA 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: 37605 lumens  
Efficiency: N/A  
Efficacy: 115.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G5

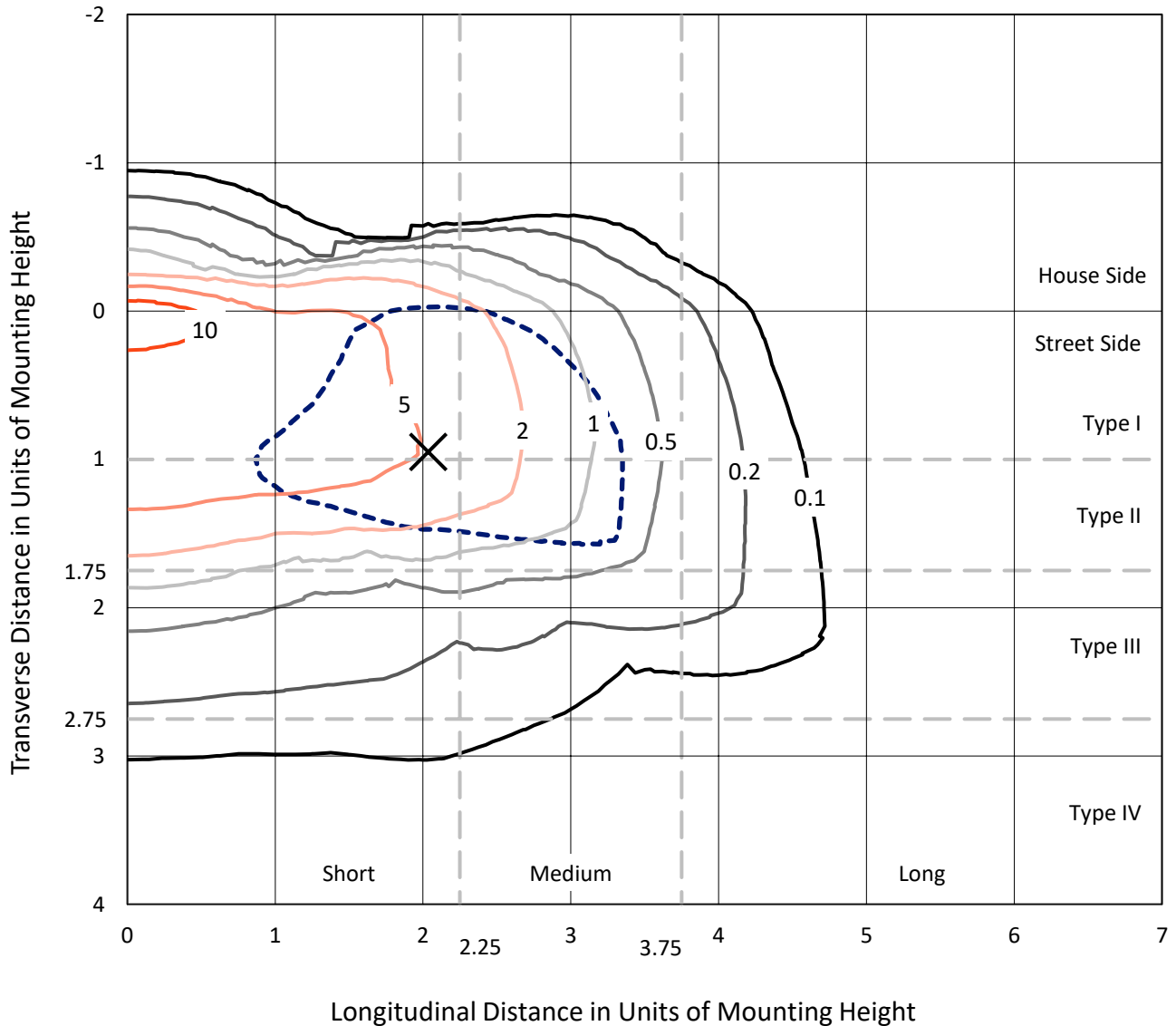
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

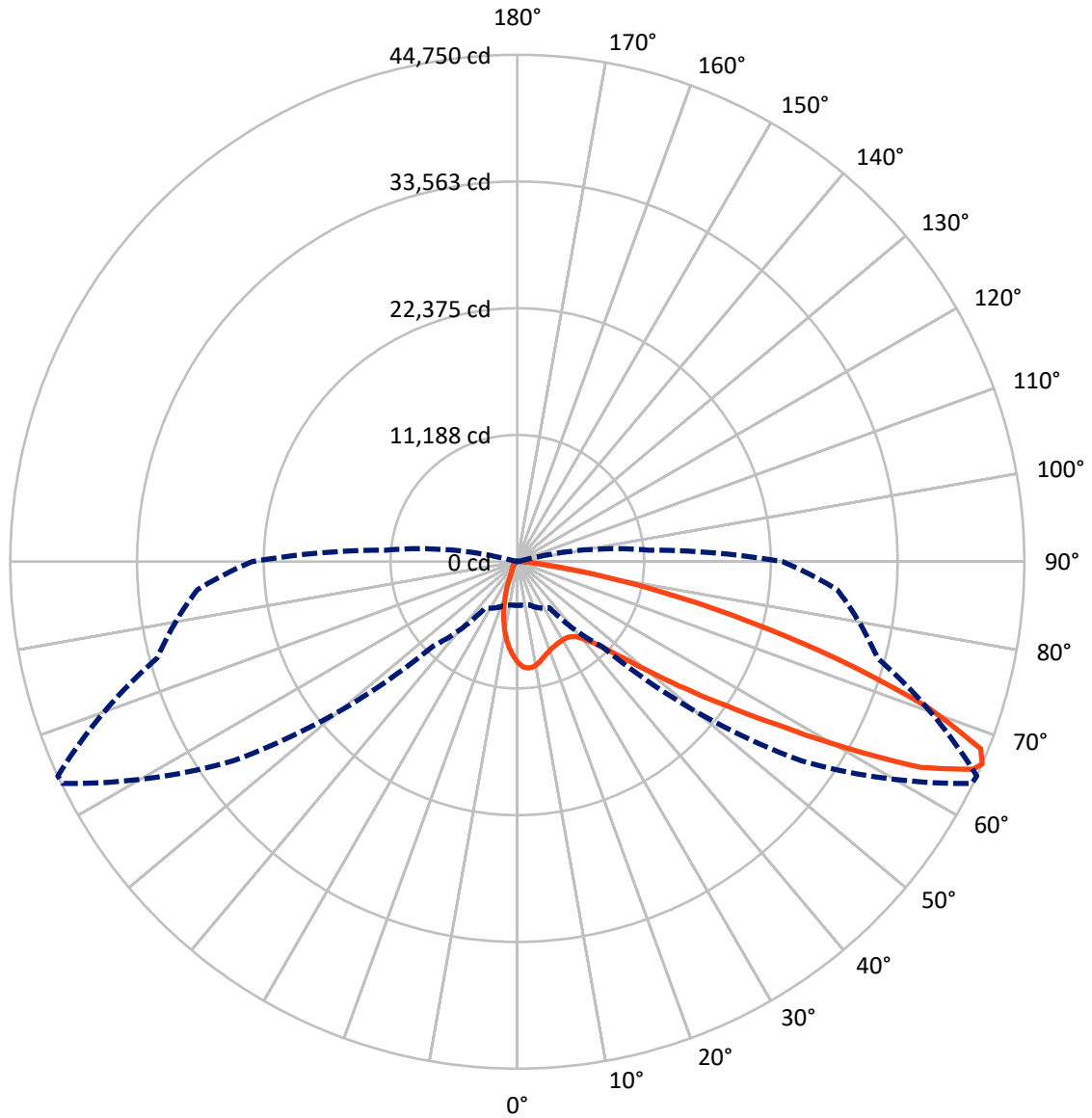
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type II - Short - N/A

REPORT NUMBER: P456982  
CATALOG NUMBER: GALN-SA8B-740-U-SL2-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3888.9	0.0	3888.9
	% Fixture	10.3	0.0	10.3
<b>Street Side</b>	Lumens	33716.1	0.0	33716.1
	% Fixture	89.7	0.0	89.7
<b>Total</b>	Lumens	37605.0	0.0	37605.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	729.3	1.9
10°-20°	1589.1	4.2
20°-30°	2276.4	6.1
30°-40°	3324.8	8.8
40°-50°	5575.1	14.8
50°-60°	9304.0	24.7
60°-70°	9875.9	26.3
70°-80°	4472.8	11.9
80°-90°	457.7	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°	37605.0	100.0
0°-180°	37605.0	100.0



REPORT NUMBER: P456982

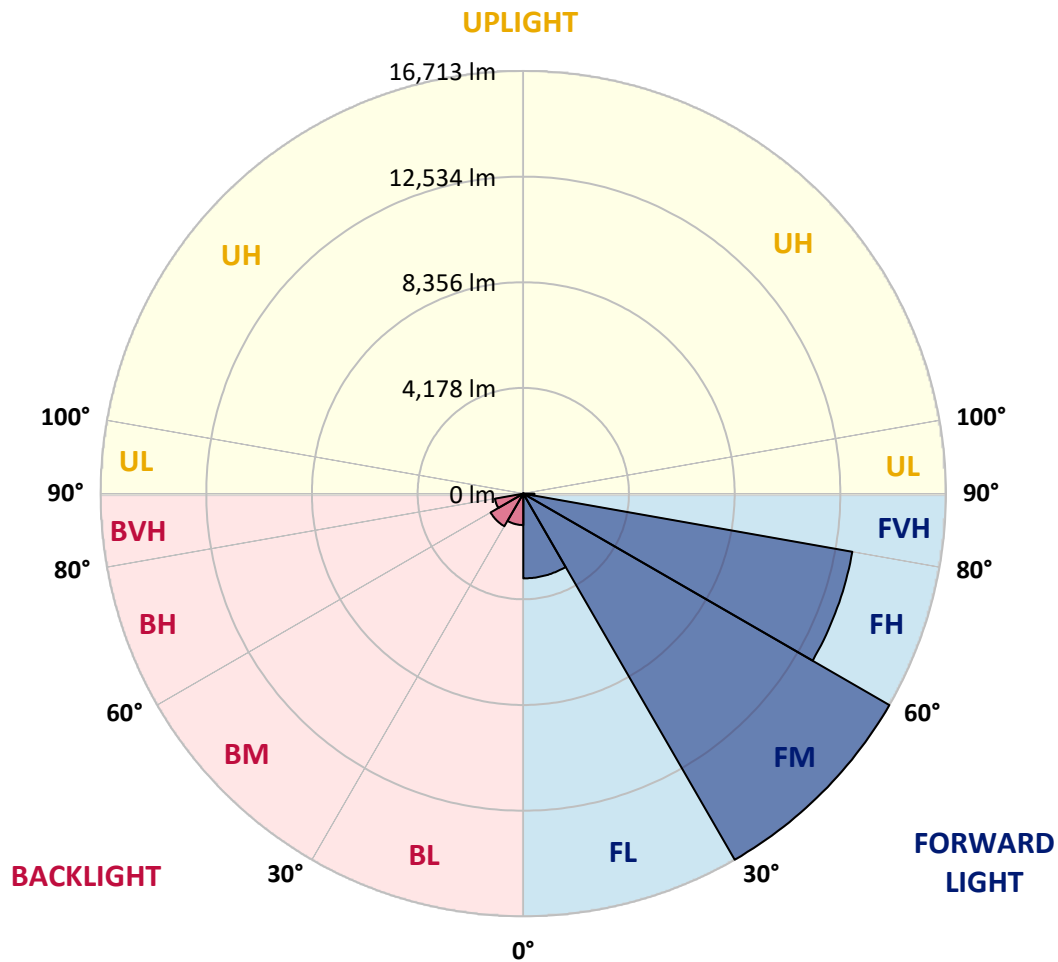
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3350.7	8.9			
FM (30°-60°)	16712.5	44.4			
FH (60°-80°)	13209.8	35.1			G5
FVH (80°-90°)	443.1	1.2			G3/500
BL (0°-30°)	1244.0	3.3	B3/2500		
BM (30°-60°)	1491.4	4.0	B2/2500		
BH (60°-80°)	1138.9	3.0	B3/2500		G3/2500
BVH (80°-90°)	14.6	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 II Short





REPORT NUMBER: P456982

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8917.5	8917.5	8917.5	8917.5	8917.5	8917.5	8917.5	8917.5	8917.5	8917.5	8917.5
2.5°	9397.6	9407.7	9420.4	9438.2	9450.9	9412.8	9359.5	9298.5	9285.8	9156.3	8998.8
5°	8894.7	8909.9	9021.7	9082.6	9219.8	9344.2	9423.0	9433.1	9428.0	9306.1	9054.7
7.5°	8178.4	8221.6	8330.8	8437.5	8694.0	8930.2	9209.6	9405.2	9417.9	9384.9	9072.5
10°	7596.8	7624.7	7680.6	7891.4	8104.8	8465.4	8856.6	9224.9	9255.3	9387.4	9057.2
12.5°	7142.2	7182.8	7251.4	7413.9	7670.4	8010.8	8455.3	8950.6	9014.0	9339.2	9014.0
15°	6824.7	6845.0	6913.6	7073.6	7322.5	7637.4	8087.0	8663.5	8719.4	9275.7	9006.4
17.5°	6674.8	6697.7	6745.9	6872.9	7078.7	7370.7	7810.1	8432.4	8503.5	9235.0	9034.4
20°	6715.5	6735.8	6738.3	6804.3	6944.0	7190.4	7607.0	8216.5	8308.0	9209.6	9080.1
22.5°	6946.6	6949.1	6918.6	6888.2	6936.4	7114.2	7482.5	8079.4	8173.3	9204.5	9133.4
25°	7292.0	7299.6	7248.8	7142.2	7045.6	7137.1	7454.6	7990.5	8074.3	9191.8	9166.4
27.5°	7769.5	7767.0	7751.7	7573.9	7299.6	7238.7	7477.4	7942.2	8013.3	9156.3	9179.1
30°	8437.5	8417.2	8384.2	8183.5	7764.4	7485.0	7573.9	7911.7	7977.8	9105.5	9146.1
32.5°	9095.3	9171.5	9166.4	8975.9	8452.7	7924.4	7774.6	7952.4	8000.6	9072.5	9097.9
35°	9862.4	9859.8	10055.4	9984.3	9372.2	8485.8	8117.5	8087.0	8125.1	9095.3	9075.0
37.5°	10573.5	10639.6	10944.4	11018.0	10459.2	9278.2	8602.6	8376.5	8389.2	9250.3	9130.9
40°	11460.0	11587.0	12041.6	12288.0	11795.2	10454.2	9318.8	8907.4	8909.9	9631.2	9341.7
42.5°	12602.9	12803.6	13227.7	13639.2	13375.0	11846.0	10393.2	9748.1	9743.0	10301.8	9824.3
45°	13992.2	14131.9	14614.5	15267.2	15099.6	13789.0	11957.8	11051.0	10985.0	11401.5	10680.2
47.5°	15191.0	15381.5	15871.7	16615.9	17377.9	16161.3	13827.1	12841.7	12798.5	13151.5	12148.3
50°	15714.3	15881.9	16397.5	17441.4	19287.9	19275.2	16610.8	15455.2	15381.5	15572.0	14418.9
52.5°	15140.2	15297.7	15818.4	17118.8	20187.0	23069.8	20644.2	18734.2	18645.3	18401.5	17131.5
55°	13174.4	13303.9	14073.5	15566.9	19841.6	25599.5	26201.4	22785.3	22439.9	21492.5	20202.2
57.5°	10489.7	10423.7	10901.2	12635.9	17814.7	26447.8	31906.0	27832.0	27214.9	24164.5	22800.5
60°	7269.1	7472.3	7665.4	8808.3	13395.3	24977.2	35454.2	34176.7	33363.9	26793.2	25289.6
62.5°	5343.9	5478.5	5605.5	6133.8	8422.3	19943.2	36081.6	40694.0	39972.7	29584.6	27664.4
65°	4226.4	4236.5	4287.3	4808.0	5549.6	12968.6	33066.7	44369.2	44183.8	32271.8	28627.0
66°	3850.5	3853.0	3931.7	4490.5	4980.7	10560.8	30651.3	44648.6	44750.2	32916.9	28345.1
67.5°	3365.3	3355.2	3469.5	4035.9	4536.2	7614.6	26328.4	43515.8	44117.8	33412.2	27331.7
70°	2608.5	2595.8	2735.5	3385.7	4178.1	5079.8	17499.8	37364.2	38334.5	32398.8	24182.2
72.5°	1737.3	1747.4	1986.2	2672.0	3987.6	4472.7	10527.8	28423.8	29795.4	26755.1	19023.7
75°	1013.4	1031.2	1303.0	1986.2	3461.9	4264.5	5958.6	20268.3	21144.5	18475.1	11851.1
77.5°	530.8	538.5	728.9	1310.6	2654.2	3959.7	3969.8	12948.3	13359.8	8978.5	4691.2
80°	281.9	274.3	391.1	789.9	1826.2	3477.1	3220.6	6855.1	7126.9	2666.9	1186.1
82.5°	106.7	116.8	208.3	518.1	1079.5	2496.7	2773.6	3030.1	2936.1	586.7	497.8
85°	20.3	25.4	88.9	307.3	543.5	1043.9	2044.6	1485.8	1376.6	221.0	287.0
87.5°	2.5	5.1	25.4	73.7	78.7	353.0	604.5	411.5	355.6	81.3	119.4
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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CATALOG NUMBER: GALN-SA8B-740-U-SL2-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8917.5	8917.5	8917.5	8917.5	8917.5	8917.5	8917.5	8917.5	8917.5	8917.5	8917.5
2.5°	8922.6	8854.0	8625.4	8399.4	8168.3	7960.0	7817.8	7586.6	7528.2	7444.4	7396.1
5°	8904.8	8744.8	8305.4	7825.4	7378.4	6895.8	6527.5	6171.9	5981.4	5884.9	5849.4
7.5°	8854.0	8600.0	7914.3	7162.5	6446.2	5724.9	5097.5	4620.0	4312.7	4101.9	3959.7
10°	8752.4	8401.9	7459.6	6425.9	5343.9	4391.5	3596.5	2992.0	2524.6	2377.3	2382.4
12.5°	8648.3	8181.0	6951.7	5608.1	4267.0	3065.6	2222.4	1744.9	1521.4	1447.7	1432.5
15°	8551.8	7970.2	6453.8	4815.6	3177.4	1986.2	1432.5	1264.9	1203.9	1191.2	1188.7
17.5°	8501.0	7774.6	5923.0	3908.9	2217.3	1348.7	1148.0	1102.3	1084.5	1071.8	1066.8
20°	8457.8	7604.4	5415.0	3060.6	1516.3	1104.8	1028.7	985.5	955.0	942.3	934.7
22.5°	8427.3	7429.2	4889.3	2369.7	1160.7	980.4	911.8	855.9	812.8	797.5	787.4
25°	8381.6	7236.1	4358.4	1732.2	977.9	871.2	792.4	726.4	670.5	642.6	637.5
27.5°	8315.6	7017.7	3776.8	1282.6	873.7	774.7	678.1	596.9	541.0	510.5	513.1
30°	8208.9	6789.1	3195.2	1018.5	789.9	675.6	571.5	492.7	439.4	416.5	414.0
32.5°	8081.9	6512.3	2661.8	873.7	713.7	586.7	477.5	408.9	368.3	350.5	348.0
35°	7962.5	6232.9	2118.3	784.8	635.0	505.4	401.3	342.9	312.4	297.2	299.7
37.5°	7896.5	5984.0	1650.9	713.7	571.5	434.3	345.4	294.6	266.7	254.0	251.4
40°	7939.7	5780.8	1313.1	650.2	500.4	373.4	297.2	254.0	226.0	208.3	208.3
42.5°	8142.9	5691.9	1059.1	589.3	434.3	322.6	259.1	218.4	188.0	170.2	172.7
45°	8762.6	5785.9	886.4	533.4	373.4	279.4	223.5	180.3	152.4	139.7	137.2
47.5°	9791.3	6138.9	767.0	475.0	320.0	238.7	188.0	149.9	121.9	111.8	109.2
50°	11589.5	6867.8	678.1	416.5	271.8	203.2	154.9	119.4	96.5	86.4	86.4
52.5°	14063.3	8457.8	614.7	350.5	228.6	172.7	127.0	96.5	76.2	68.6	66.0
55°	16648.9	10134.1	581.6	294.6	190.5	142.2	101.6	76.2	58.4	50.8	48.3
57.5°	19135.5	11449.8	543.5	238.7	152.4	109.2	78.7	58.4	40.6	35.6	33.0
60°	21520.4	12514.0	462.3	190.5	119.4	78.7	58.4	40.6	27.9	22.9	22.9
62.5°	23653.9	13133.7	363.2	152.4	91.4	55.9	38.1	30.5	20.3	15.2	15.2
65°	23902.8	12328.6	274.3	116.8	66.0	35.6	22.9	22.9	15.2	10.2	10.2
66°	23402.5	11645.4	241.3	106.7	58.4	30.5	20.3	17.8	12.7	7.6	7.6
67.5°	22284.9	10479.6	208.3	91.4	48.3	22.9	15.2	15.2	10.2	5.1	5.1
70°	19254.9	8559.4	165.1	68.6	35.6	17.8	10.2	10.2	7.6	5.1	5.1
72.5°	14675.4	6390.3	134.6	50.8	25.4	12.7	7.6	7.6	7.6	5.1	5.1
75°	8851.5	3441.5	104.1	38.1	22.9	10.2	5.1	7.6	10.2	7.6	5.1
77.5°	3261.2	1170.9	81.3	30.5	17.8	10.2	5.1	5.1	10.2	7.6	7.6
80°	800.1	304.8	58.4	25.4	17.8	10.2	5.1	5.1	10.2	10.2	10.2
82.5°	370.8	129.5	40.6	22.9	17.8	10.2	5.1	5.1	7.6	10.2	10.2
85°	213.4	61.0	33.0	25.4	17.8	10.2	5.1	5.1	7.6	10.2	10.2
87.5°	86.4	30.5	30.5	25.4	20.3	12.7	5.1	5.1	5.1	7.6	7.6
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)