

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: P532885

Luminaire Tested: **GALN-SA8B-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532885  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA8B-735-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24983 lumens  
Efficiency: N/A  
Efficacy: 76.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

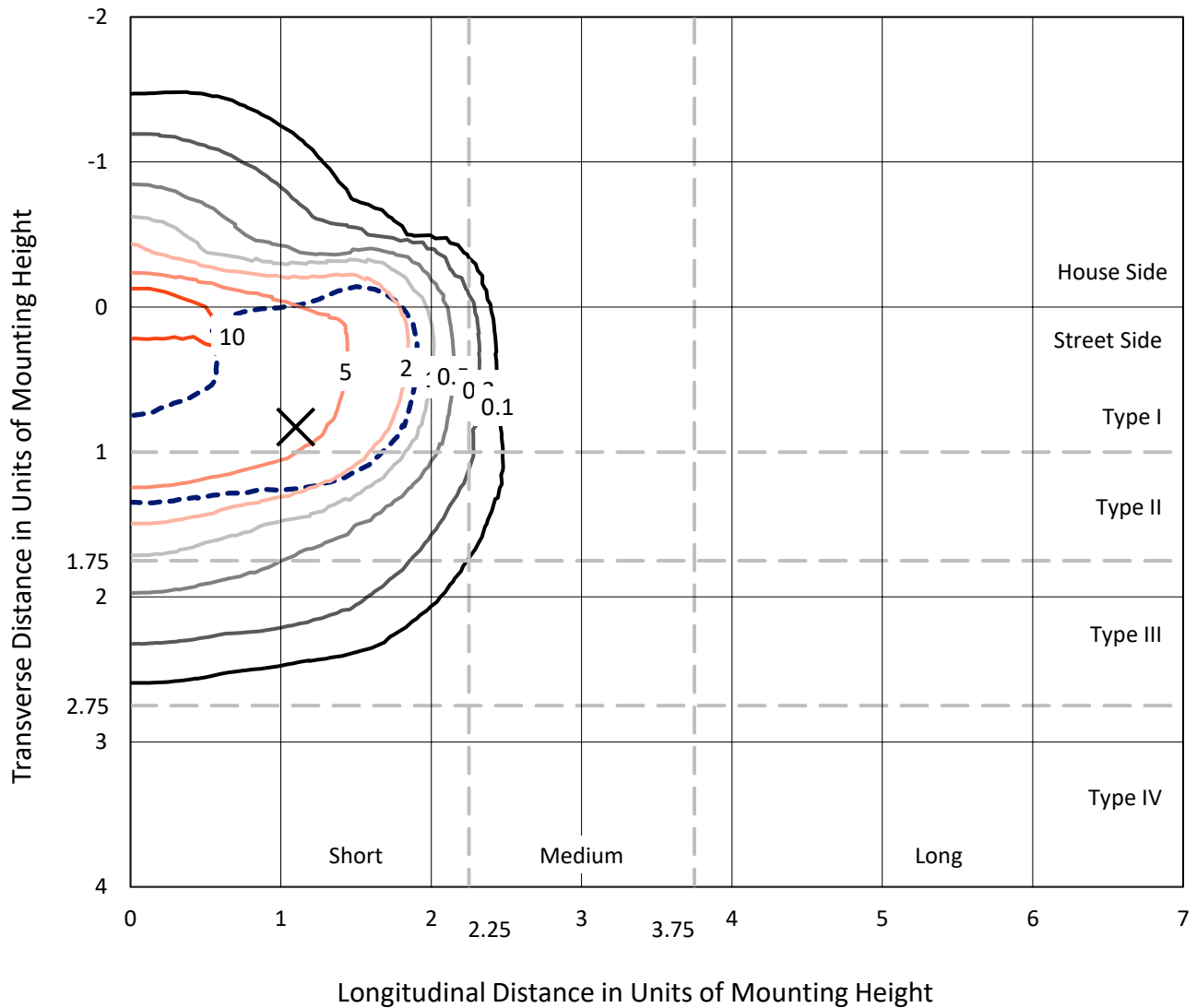
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

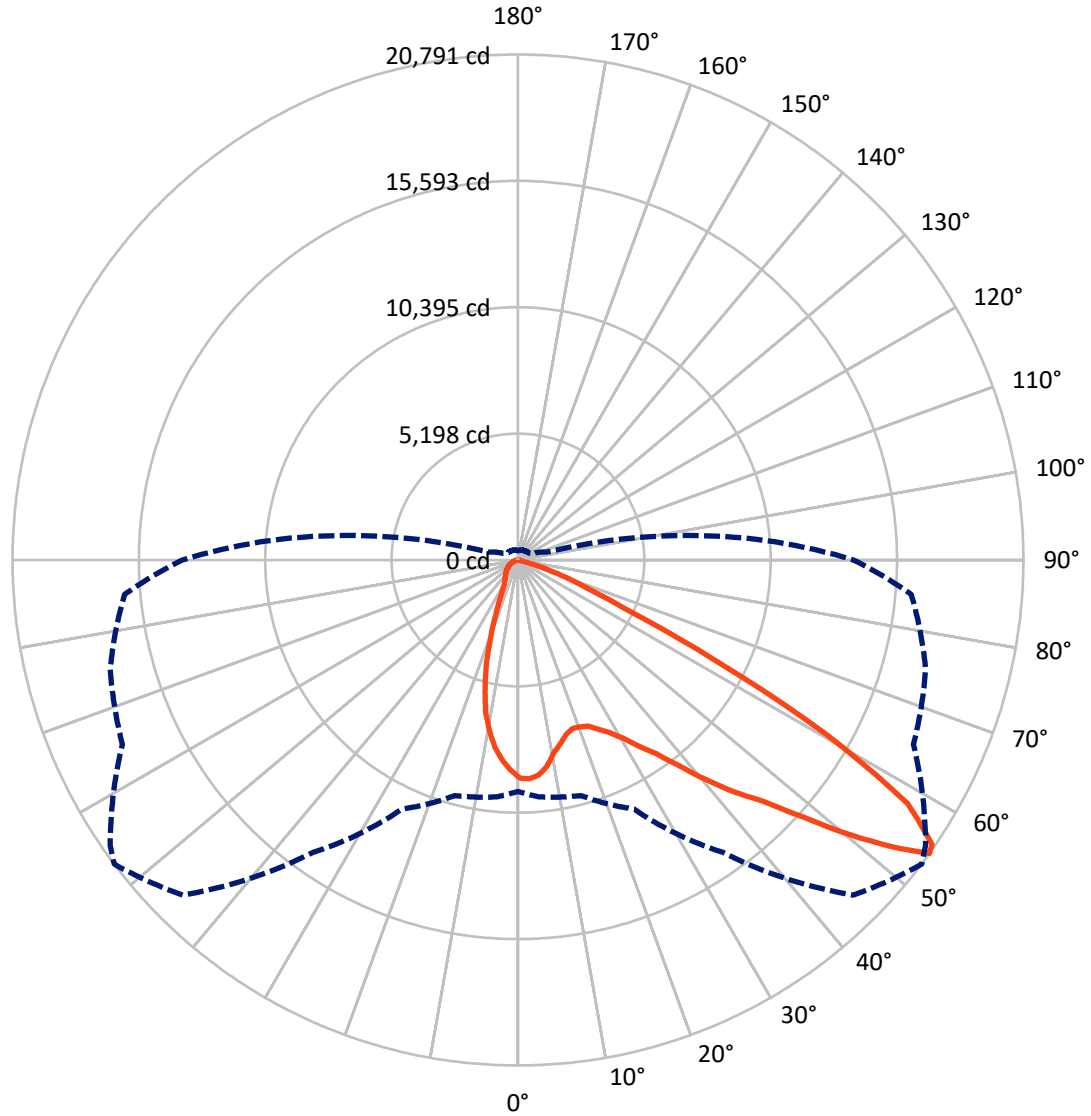
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4133.5	0.0	4133.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	20849.5	0.0	20849.5
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	24983.0	0.0	24983.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	769.9	3.1
10°-20°	1765.1	7.1
20°-30°	2508.7	10.0
30°-40°	3871.5	15.5
40°-50°	6070.2	24.3
50°-60°	7051.3	28.2
60°-70°	2664.4	10.7
70°-80°	253.4	1.0
80°-90°	28.5	0.1
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°	24983.0	100.0
0°-180°	24983.0	100.0

**Coefficient of Utilization**



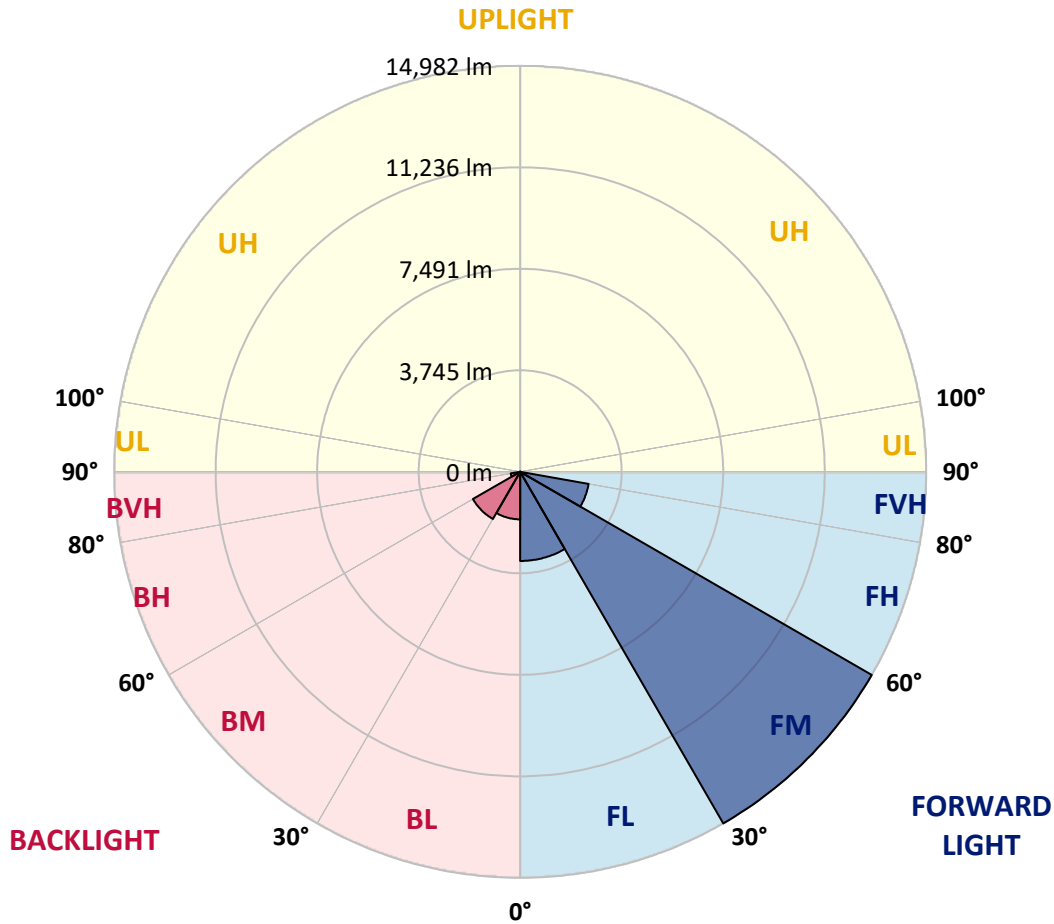
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3289.6	13.2			
FM (30°-60°)	14981.5	60.0			
FH (60°-80°)	2563.6	10.3			G2/5000
FVH (80°-90°)	14.7	0.1			G1/100
BL (0°-30°)	1754.1	7.0	B3/2500		
BM (30°-60°)	2011.5	8.1	B2/2500		
BH (60°-80°)	354.1	1.4	B1/500		G1/500
BVH (80°-90°)	13.8	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	8973.5	8973.5	8973.5	8973.5	8973.5	8973.5	8973.5	8973.5	8973.5	8973.5	8973.5
2.5°	8926.9	8847.8	8926.9	8936.2	8992.1	9043.3	9010.7	9085.2	9043.3	8996.7	8982.8
5°	8205.5	8312.6	8317.2	8484.8	8447.5	8754.7	8889.7	8852.5	9080.5	9066.6	9034.0
7.5°	7558.6	7516.7	7572.5	7768.0	8014.7	8368.4	8563.9	8559.2	8885.0	9117.8	9094.5
10°	6958.2	6953.5	7069.9	7223.5	7432.9	7805.2	8075.2	8210.2	8717.5	9071.2	9122.4
12.5°	6553.2	6534.6	6660.3	6786.0	7116.4	7405.0	7749.4	7814.6	8396.3	8908.3	8992.1
15°	6287.9	6329.8	6339.1	6581.2	6790.6	7172.3	7442.2	7577.2	8247.4	8778.0	9099.1
17.5°	6241.4	6297.3	6301.9	6502.0	6725.4	7046.6	7284.0	7465.5	8121.7	8843.2	9103.8
20°	6334.5	6301.9	6329.8	6455.5	6674.3	6981.4	7325.9	7386.4	8079.8	8875.7	9155.0
22.5°	6599.8	6590.5	6520.7	6623.1	6776.6	7097.8	7423.6	7516.7	8200.9	9043.3	9196.9
25°	6893.0	6944.2	6879.0	6865.1	6972.1	7288.6	7721.5	7842.5	8605.8	9345.8	9327.2
27.5°	7442.2	7391.0	7391.0	7325.9	7297.9	7451.5	8042.6	8242.7	9057.2	9736.8	9476.1
30°	7968.1	8024.0	7982.1	8005.4	7819.2	7805.2	8498.7	8745.4	9857.8	10332.5	9792.6
32.5°	8801.3	8726.8	8796.6	8736.1	8489.4	8238.1	9117.8	9373.7	10825.9	11016.7	10267.4
35°	9494.8	9462.2	9760.0	9750.7	9350.5	9103.8	9774.0	10155.7	11500.8	11835.9	10825.9
37.5°	10481.5	10421.0	10760.7	10923.6	10565.2	10197.6	10714.2	11156.3	12129.1	12492.1	11398.4
40°	11496.1	11649.7	12105.8	12375.8	11994.1	11505.4	11863.8	11998.8	12548.0	12920.3	11789.3
42.5°	12780.7	13004.1	13469.5	13702.2	13669.7	13139.1	13032.0	13027.4	12850.5	12799.3	12077.9
45°	14014.1	13930.3	14647.1	15154.4	15563.9	15410.4	14158.4	14018.7	13329.9	12980.8	12152.4
47.5°	14554.0	14526.0	15014.7	15917.7	17314.0	17504.8	15796.7	15256.8	14139.7	13744.1	12557.3
50°	13855.8	14000.1	14484.2	15484.8	17625.8	19082.6	17807.3	17081.2	15084.6	14675.0	13516.1
52.5°	11575.2	11673.0	12133.7	13404.4	16564.6	20013.4	19734.2	19315.3	16820.6	16141.1	15187.0
54°	9518.0	9778.7	10030.0	11305.3	14675.0	19496.8	20790.7	20469.6	17951.6	17360.5	16238.8
55°	8289.3	8442.9	8624.4	9895.0	13367.1	18621.8	20669.7	20697.6	18710.2	17742.2	16946.3
57.5°	6055.2	6162.3	5976.1	6539.3	9178.3	15121.8	18905.7	19659.7	19734.2	18314.6	17379.1
60°	4626.4	4672.9	4463.5	4551.9	5706.2	10379.1	14623.8	15531.4	17802.7	16006.1	14721.5
62.5°	3588.5	3597.8	3593.1	3746.7	3932.9	6106.4	9145.7	9950.9	12273.4	11365.8	9997.4
65°	2643.6	2601.7	2676.2	3141.6	3355.7	3839.8	4817.2	5403.6	6669.6	5631.7	4026.0
67.5°	1712.8	1726.7	1801.2	2336.5	2876.4	2946.2	2964.8	2918.2	2922.9	1610.4	1010.0
70°	1028.6	1051.9	1028.6	1321.8	2057.2	2113.0	1931.5	1885.0	1470.8	381.7	377.0
72.5°	609.7	577.1	516.6	567.8	856.4	1023.9	921.5	916.9	577.1	223.4	223.4
75°	256.0	232.7	190.8	172.2	228.1	218.8	218.8	195.5	153.6	148.9	139.6
77.5°	51.2	51.2	37.2	41.9	55.9	65.2	79.1	79.1	93.1	93.1	88.4
80°	0.0	4.7	14.0	27.9	41.9	60.5	69.8	69.8	79.1	79.1	65.2
82.5°	0.0	4.7	14.0	27.9	37.2	55.9	69.8	69.8	79.1	83.8	69.8
85°	0.0	4.7	14.0	23.3	37.2	46.5	46.5	41.9	32.6	27.9	18.6
87.5°	0.0	0.0	4.7	9.3	4.7	9.3	9.3	9.3	9.3	9.3	9.3
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°	8973.5	8973.5	8973.5	8973.5	8973.5	8973.5	8973.5	8973.5	8973.5	8973.5	8973.5
2.5°	9015.4	9010.7	8899.0	8717.5	8675.6	8522.0	8503.4	8410.3	8461.5	8289.3	8270.7
5°	8940.9	8885.0	8750.1	8633.7	8293.9	8051.9	7861.1	7628.4	7493.4	7516.7	7428.2
7.5°	9047.9	8903.7	8666.3	8261.4	7847.1	7423.6	7195.5	6720.8	6548.6	6292.6	6255.4
10°	8936.2	8829.2	8461.5	7791.3	7218.8	6609.1	6073.8	5547.9	5147.6	4975.4	4938.2
12.5°	8926.9	8740.8	8126.4	7381.7	6553.2	5678.2	4901.0	4244.7	3849.1	3625.7	3574.5
15°	8782.6	8559.2	7749.4	6748.7	5603.8	4514.7	3667.6	3034.6	2732.1	2601.7	2639.0
17.5°	8796.6	8461.5	7372.4	6078.5	4668.3	3313.9	2504.0	2178.2	2099.1	2131.7	2131.7
20°	8782.6	8242.7	6916.3	5305.9	3574.5	2299.2	1838.4	1722.1	1773.3	1875.7	1852.4
22.5°	8708.2	8140.4	6497.4	4491.4	2629.7	1703.5	1475.4	1480.1	1559.2	1684.9	1712.8
25°	8764.0	7912.3	5966.8	3667.6	1917.6	1359.1	1279.9	1312.5	1396.3	1489.4	1508.0
27.5°	8722.1	7749.4	5412.9	2848.4	1400.9	1168.2	1163.6	1200.8	1238.0	1307.9	1307.9
30°	8768.7	7600.5	4868.4	2117.7	1154.3	1070.5	1051.9	1079.8	1117.0	1131.0	1126.3
32.5°	8940.9	7488.8	4240.1	1582.5	1019.3	977.4	977.4	977.4	972.7	991.4	996.0
35°	9317.9	7507.4	3686.2	1224.1	930.9	898.3	884.3	865.7	856.4	865.7	870.4
37.5°	9727.5	7498.1	3113.7	1042.6	865.7	837.8	805.2	777.3	772.6	781.9	768.0
40°	9909.0	7586.5	2583.1	935.5	805.2	772.6	721.4	698.1	702.8	712.1	702.8
42.5°	10155.7	7614.4	2238.7	851.7	749.3	698.1	665.6	637.6	633.0	646.9	642.3
45°	10151.0	7456.2	1875.7	805.2	698.1	642.3	600.4	577.1	577.1	586.4	591.1
47.5°	10448.9	7432.9	1610.4	763.3	660.9	605.1	553.9	535.2	530.6	530.6	521.3
50°	11142.4	7758.7	1405.6	716.8	614.4	563.2	521.3	498.0	479.4	470.1	465.4
52.5°	12496.8	8773.3	1247.3	660.9	563.2	521.3	484.0	465.4	442.2	418.9	414.2
54°	13809.3	9820.6	1238.0	614.4	521.3	493.4	460.8	451.5	423.5	391.0	381.7
55°	14400.4	10430.3	1270.6	577.1	493.4	474.7	446.8	437.5	409.6	372.3	367.7
57.5°	14889.1	10667.6	1252.0	479.4	446.8	442.2	418.9	404.9	372.3	321.1	311.8
60°	11984.8	8065.9	898.3	423.5	409.6	400.3	381.7	372.3	330.5	274.6	269.9
62.5°	7572.5	4640.3	572.5	372.3	358.4	344.4	321.1	311.8	274.6	218.8	204.8
65°	3225.4	1922.2	386.3	330.5	307.2	283.9	265.3	251.3	218.8	162.9	158.2
67.5°	837.8	684.2	321.1	288.6	256.0	223.4	209.4	186.2	148.9	111.7	107.0
70°	377.0	344.4	269.9	242.0	204.8	172.2	153.6	130.3	97.7	74.5	69.8
72.5°	223.4	218.8	204.8	181.5	153.6	130.3	111.7	88.4	65.2	41.9	41.9
75°	139.6	135.0	139.6	125.7	107.0	97.7	83.8	60.5	37.2	18.6	18.6
77.5°	83.8	83.8	83.8	79.1	74.5	74.5	60.5	37.2	18.6	4.7	4.7
80°	65.2	65.2	69.8	65.2	65.2	65.2	51.2	27.9	9.3	0.0	0.0
82.5°	65.2	69.8	79.1	74.5	65.2	55.9	46.5	27.9	9.3	0.0	0.0
85°	18.6	14.0	23.3	32.6	46.5	41.9	32.6	23.3	9.3	0.0	0.0
87.5°	9.3	9.3	9.3	9.3	4.7	4.7	4.7	4.7	4.7	0.0	0.0
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)