

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: P534055

Luminaire Tested: **GALN-SA9C-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534055  
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-SA9C-735-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1050mA 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: 34655 lumens  
Efficiency: N/A  
Efficacy: 72.0 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

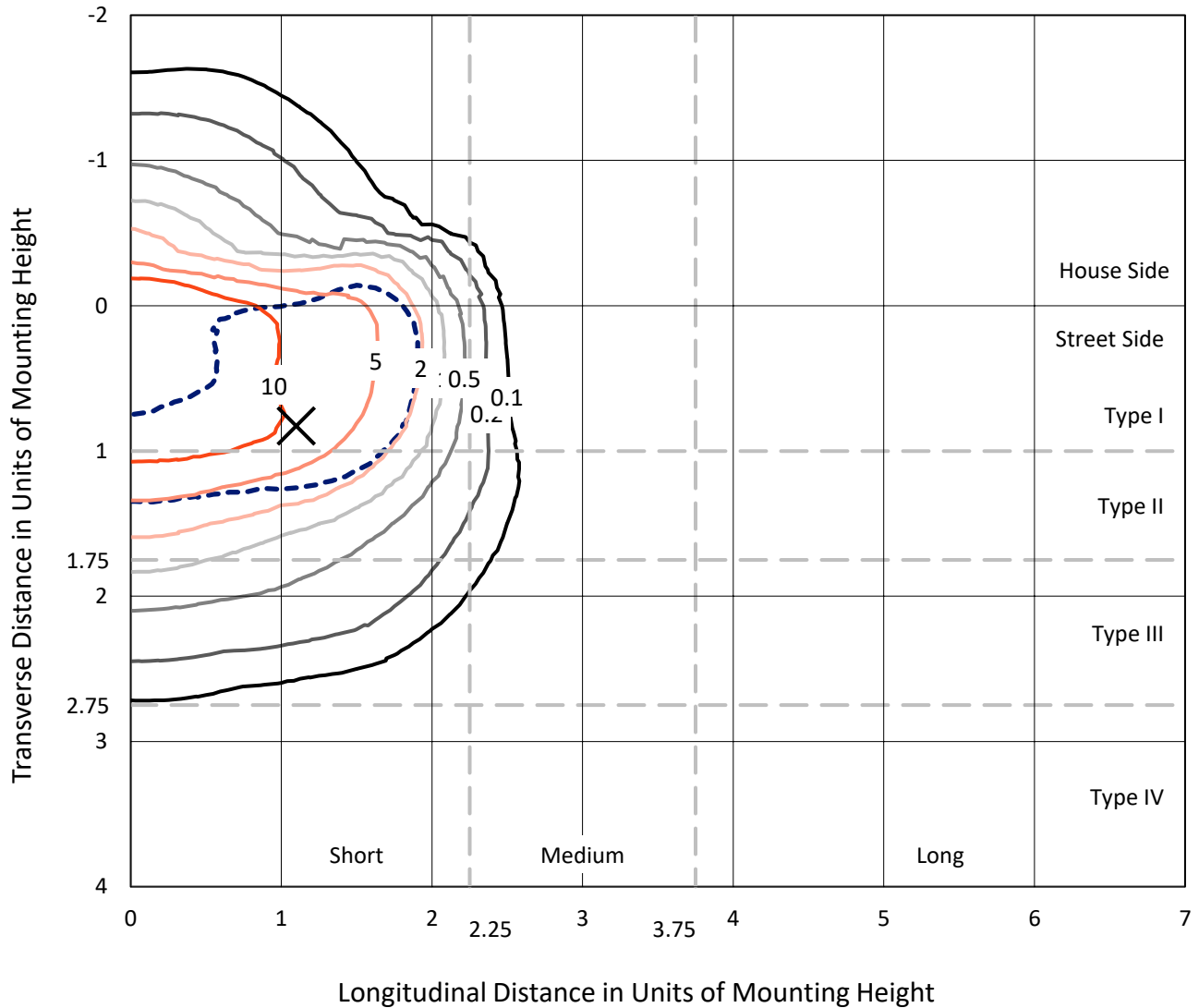
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

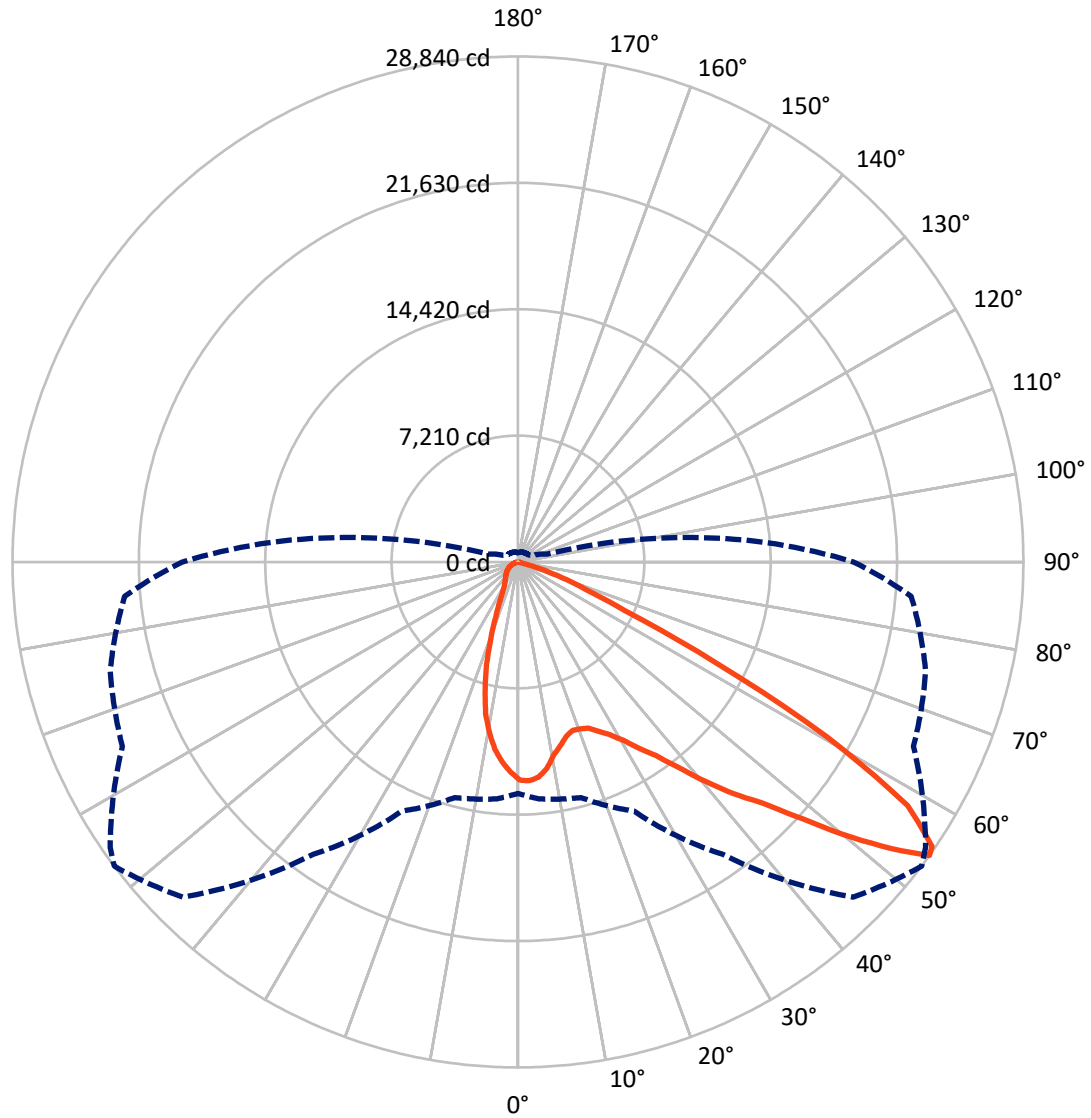
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.9 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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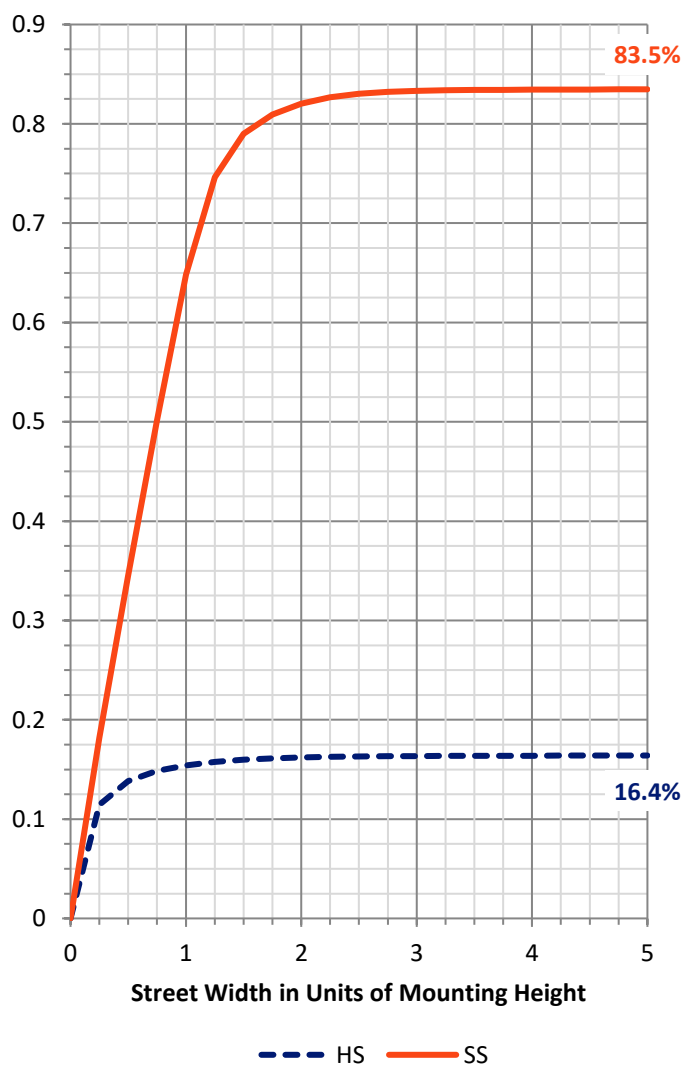
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5733.8	0.0	5733.8
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	28921.2	0.0	28921.2
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	34655.0	0.0	34655.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1068.0	3.1
10°-20°	2448.5	7.1
20°-30°	3479.9	10.0
30°-40°	5370.3	15.5
40°-50°	8420.2	24.3
50°-60°	9781.2	28.2
60°-70°	3695.9	10.7
70°-80°	351.5	1.0
80°-90°	39.6	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°	34655.0	100.0
0°-180°	34655.0	100.0

**Coefficient of Utilization**

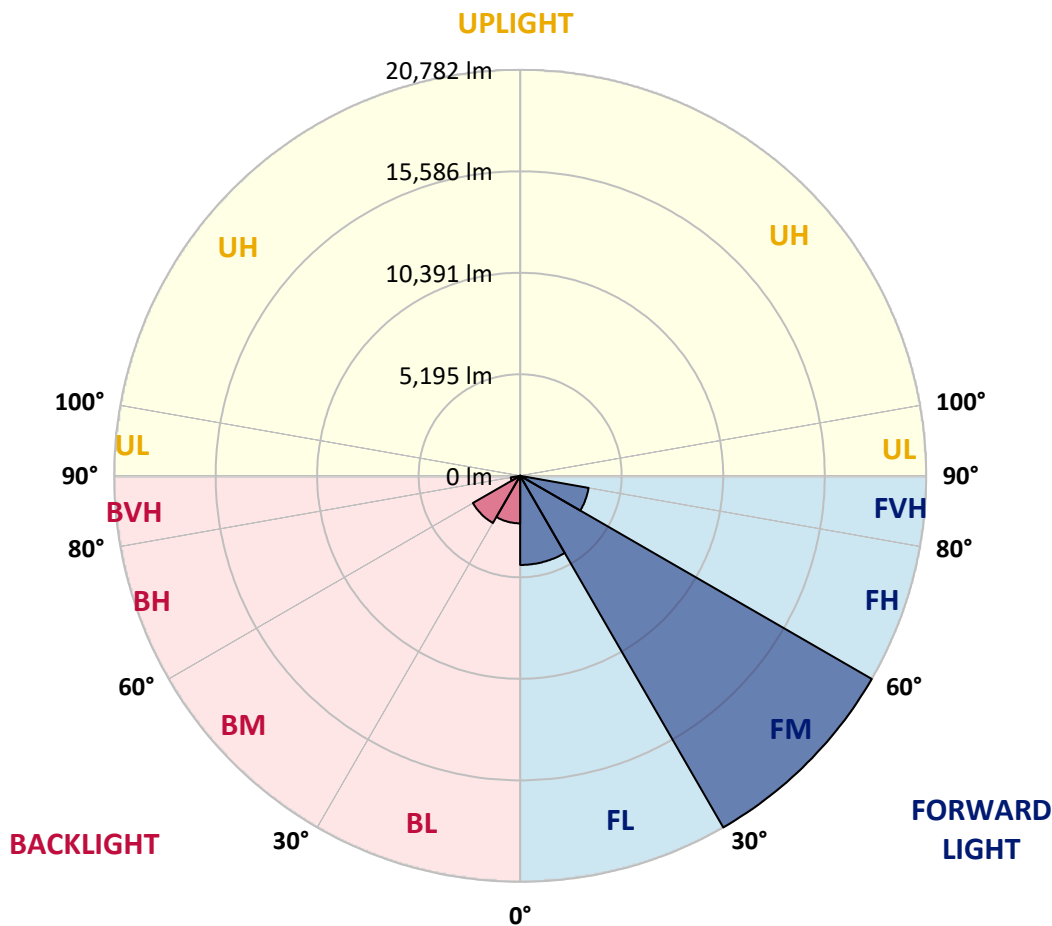


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4563.2	13.2			
FM (30°-60°)	20781.5	60.0			
FH (60°-80°)	3556.1	10.3			G2/5000
FVH (80°-90°)	20.4	0.1			G1/100
BL (0°-30°)	2433.2	7.0	B3/2500		
BM (30°-60°)	2790.2	8.1	B3/5000		
BH (60°-80°)	491.3	1.4	B1/500		G1/500
BVH (80°-90°)	19.1	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°	12447.5	12447.5	12447.5	12447.5	12447.5	12447.5	12447.5	12447.5	12447.5	12447.5	12447.5
2.5°	12382.9	12273.2	12382.9	12395.8	12473.3	12544.3	12499.1	12602.4	12544.3	12479.8	12460.4
5°	11382.2	11530.7	11537.2	11769.6	11717.9	12144.1	12331.3	12279.6	12596.0	12576.6	12531.4
7.5°	10484.8	10426.7	10504.2	10775.3	11117.5	11608.2	11879.3	11872.9	12324.8	12647.6	12615.4
10°	9652.0	9645.5	9806.9	10020.0	10310.5	10827.0	11201.5	11388.7	12092.4	12583.1	12654.1
12.5°	9090.3	9064.5	9238.8	9413.1	9871.5	10271.8	10749.5	10839.9	11646.9	12357.1	12473.3
15°	8722.3	8780.4	8793.3	9129.0	9419.5	9949.0	10323.4	10510.6	11440.3	12176.3	12621.8
17.5°	8657.7	8735.2	8741.7	9019.3	9329.2	9774.6	10103.9	10355.7	11266.0	12266.7	12628.3
20°	8786.8	8741.7	8780.4	8954.7	9258.1	9684.3	10162.0	10245.9	11207.9	12311.9	12699.3
22.5°	9154.8	9141.9	9045.1	9187.1	9400.2	9845.7	10297.6	10426.7	11375.8	12544.3	12757.4
25°	9561.6	9632.6	9542.2	9522.8	9671.3	10110.4	10710.8	10878.6	11937.5	12964.0	12938.2
27.5°	10323.4	10252.4	10252.4	10162.0	10123.3	10336.3	11156.3	11433.9	12563.7	13506.3	13144.8
30°	11053.0	11130.4	11072.3	11104.6	10846.4	10827.0	11789.0	12131.1	13674.2	14332.7	13583.8
32.5°	12208.6	12105.3	12202.2	12118.2	11776.1	11427.4	12647.6	13002.7	15017.0	15281.7	14242.3
35°	13170.6	13125.4	13538.6	13525.7	12970.4	12628.3	13558.0	14087.4	15953.2	16418.0	15017.0
37.5°	14539.3	14455.4	14926.7	15152.6	14655.5	14145.5	14862.1	15475.4	16824.8	17328.4	15811.2
40°	15946.7	16159.8	16792.5	17167.0	16637.5	15959.6	16456.8	16644.0	17405.8	17922.3	16353.5
42.5°	17728.6	18038.5	18684.1	19007.0	18961.8	18225.8	18077.3	18070.8	17825.5	17754.5	16753.8
45°	19439.5	19323.3	20317.6	21021.3	21589.4	21376.4	19639.7	19446.0	18490.5	18006.3	16857.1
47.5°	20188.4	20149.7	20827.6	22080.1	24016.9	24281.6	21912.2	21163.3	19613.8	19065.1	17418.7
50°	19220.0	19420.2	20091.6	21479.7	24449.5	26470.3	24701.3	23694.1	20924.4	20356.3	18748.7
52.5°	16056.5	16192.1	16831.2	18593.8	22977.5	27761.5	27374.2	26793.1	23332.6	22390.0	21066.5
54°	13202.9	13564.4	13913.0	15682.0	20356.3	27044.9	28839.7	28394.2	24901.4	24081.5	22525.6
55°	11498.4	11711.5	11963.3	13725.8	18542.1	25831.1	28671.8	28710.6	25953.8	24610.9	23506.9
57.5°	8399.5	8548.0	8289.7	9070.9	12731.6	20976.1	26225.0	27270.9	27374.2	25405.0	24107.3
60°	6417.4	6482.0	6191.5	6314.1	7915.3	14397.3	20285.3	21544.2	24694.8	22202.8	20420.9
62.5°	4977.7	4990.6	4984.2	5197.2	5455.5	8470.5	12686.4	13803.3	17024.9	15766.0	13867.8
65°	3667.1	3609.0	3712.3	4357.9	4654.9	5326.3	6682.1	7495.6	9251.7	7812.0	5584.6
67.5°	2375.9	2395.2	2498.5	3241.0	3989.9	4086.8	4112.6	4048.0	4054.5	2233.8	1401.0
70°	1426.8	1459.1	1426.8	1833.6	2853.6	2931.1	2679.3	2614.7	2040.1	529.4	522.9
72.5°	845.8	800.6	716.6	787.7	1187.9	1420.4	1278.3	1271.9	800.6	309.9	309.9
75°	355.1	322.8	264.7	238.9	316.4	303.4	303.4	271.2	213.1	206.6	193.7
77.5°	71.0	71.0	51.6	58.1	77.5	90.4	109.8	109.8	129.1	129.1	122.7
80°	0.0	6.5	19.4	38.7	58.1	83.9	96.8	96.8	109.8	109.8	90.4
82.5°	0.0	6.5	19.4	38.7	51.6	77.5	96.8	96.8	109.8	116.2	96.8
85°	0.0	6.5	19.4	32.3	51.6	64.6	64.6	58.1	45.2	38.7	25.8
87.5°	0.0	0.0	6.5	12.9	6.5	12.9	12.9	12.9	12.9	12.9	12.9
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°	12447.5	12447.5	12447.5	12447.5	12447.5	12447.5	12447.5	12447.5	12447.5	12447.5	12447.5
2.5°	12505.6	12499.1	12344.2	12092.4	12034.3	11821.2	11795.4	11666.3	11737.3	11498.4	11472.6
5°	12402.3	12324.8	12137.6	11976.2	11504.9	11169.2	10904.5	10581.7	10394.4	10426.7	10304.0
7.5°	12550.8	12350.6	12021.4	11459.7	10885.1	10297.6	9981.2	9322.7	9083.8	8728.7	8677.1
10°	12395.8	12247.4	11737.3	10807.6	10013.5	9167.8	8425.3	7695.8	7140.5	6901.6	6850.0
12.5°	12382.9	12124.7	11272.5	10239.5	9090.3	7876.5	6798.3	5888.0	5339.3	5029.4	4958.3
15°	12182.8	11872.9	10749.5	9361.4	7773.2	6262.5	5087.5	4209.4	3789.8	3609.0	3660.6
17.5°	12202.2	11737.3	10226.6	8431.8	6475.5	4596.8	3473.4	3021.5	2911.7	2956.9	2956.9
20°	12182.8	11433.9	9593.9	7360.0	4958.3	3189.3	2550.2	2388.8	2459.8	2601.8	2569.6
22.5°	12079.5	11291.8	9012.8	6230.2	3647.7	2363.0	2046.6	2053.1	2162.8	2337.1	2375.9
25°	12157.0	10975.5	8276.8	5087.5	2659.9	1885.2	1775.4	1820.6	1936.9	2066.0	2091.8
27.5°	12098.9	10749.5	7508.5	3951.2	1943.3	1620.5	1614.0	1665.7	1717.3	1814.2	1814.2
30°	12163.4	10542.9	6753.2	2937.6	1601.1	1484.9	1459.1	1497.8	1549.5	1568.8	1562.4
32.5°	12402.3	10388.0	5881.6	2195.1	1413.9	1355.8	1355.8	1355.8	1349.3	1375.2	1381.6
35°	12925.2	10413.8	5113.3	1698.0	1291.2	1246.0	1226.7	1200.8	1187.9	1200.8	1207.3
37.5°	13493.4	10400.9	4319.2	1446.2	1200.8	1162.1	1116.9	1078.2	1071.7	1084.6	1065.3
40°	13745.2	10523.6	3583.2	1297.7	1116.9	1071.7	1000.7	968.4	974.9	987.8	974.9
42.5°	14087.4	10562.3	3105.4	1181.5	1039.4	968.4	923.2	884.5	878.0	897.4	891.0
45°	14080.9	10342.8	2601.8	1116.9	968.4	891.0	832.8	800.6	800.6	813.5	819.9
47.5°	14494.1	10310.5	2233.8	1058.8	916.8	839.3	768.3	742.5	736.0	736.0	723.1
50°	15456.1	10762.4	1949.8	994.2	852.2	781.2	723.1	690.8	665.0	652.1	645.6
52.5°	17334.8	12169.9	1730.3	916.8	781.2	723.1	671.4	645.6	613.3	581.1	574.6
54°	19155.5	13622.5	1717.3	852.2	723.1	684.4	639.2	626.2	587.5	542.3	529.4
55°	19975.4	14468.3	1762.5	800.6	684.4	658.5	619.8	606.9	568.1	516.5	510.0
57.5°	20653.3	14797.5	1736.7	665.0	619.8	613.3	581.1	561.7	516.5	445.5	432.6
60°	16624.6	11188.5	1246.0	587.5	568.1	555.2	529.4	516.5	458.4	380.9	374.5
62.5°	10504.2	6436.8	794.1	516.5	497.1	477.8	445.5	432.6	380.9	303.4	284.1
65°	4474.1	2666.4	535.9	458.4	426.1	393.8	368.0	348.6	303.4	226.0	219.5
67.5°	1162.1	949.1	445.5	400.3	355.1	309.9	290.5	258.2	206.6	154.9	148.5
70°	522.9	477.8	374.5	335.7	284.1	238.9	213.1	180.8	135.6	103.3	96.8
72.5°	309.9	303.4	284.1	251.8	213.1	180.8	154.9	122.7	90.4	58.1	58.1
75°	193.7	187.2	193.7	174.3	148.5	135.6	116.2	83.9	51.6	25.8	25.8
77.5°	116.2	116.2	116.2	109.8	103.3	103.3	83.9	51.6	25.8	6.5	6.5
80°	90.4	90.4	96.8	90.4	90.4	90.4	71.0	38.7	12.9	0.0	0.0
82.5°	90.4	96.8	109.8	103.3	90.4	77.5	64.6	38.7	12.9	0.0	0.0
85°	25.8	19.4	32.3	45.2	64.6	58.1	45.2	32.3	12.9	0.0	0.0
87.5°	12.9	12.9	12.9	12.9	6.5	6.5	6.5	6.5	6.5	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)