

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: P533771

Luminaire Tested: **GALN-SA9B-727-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533771  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-727-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25229 lumens  
Efficiency: N/A  
Efficacy: 69.3 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

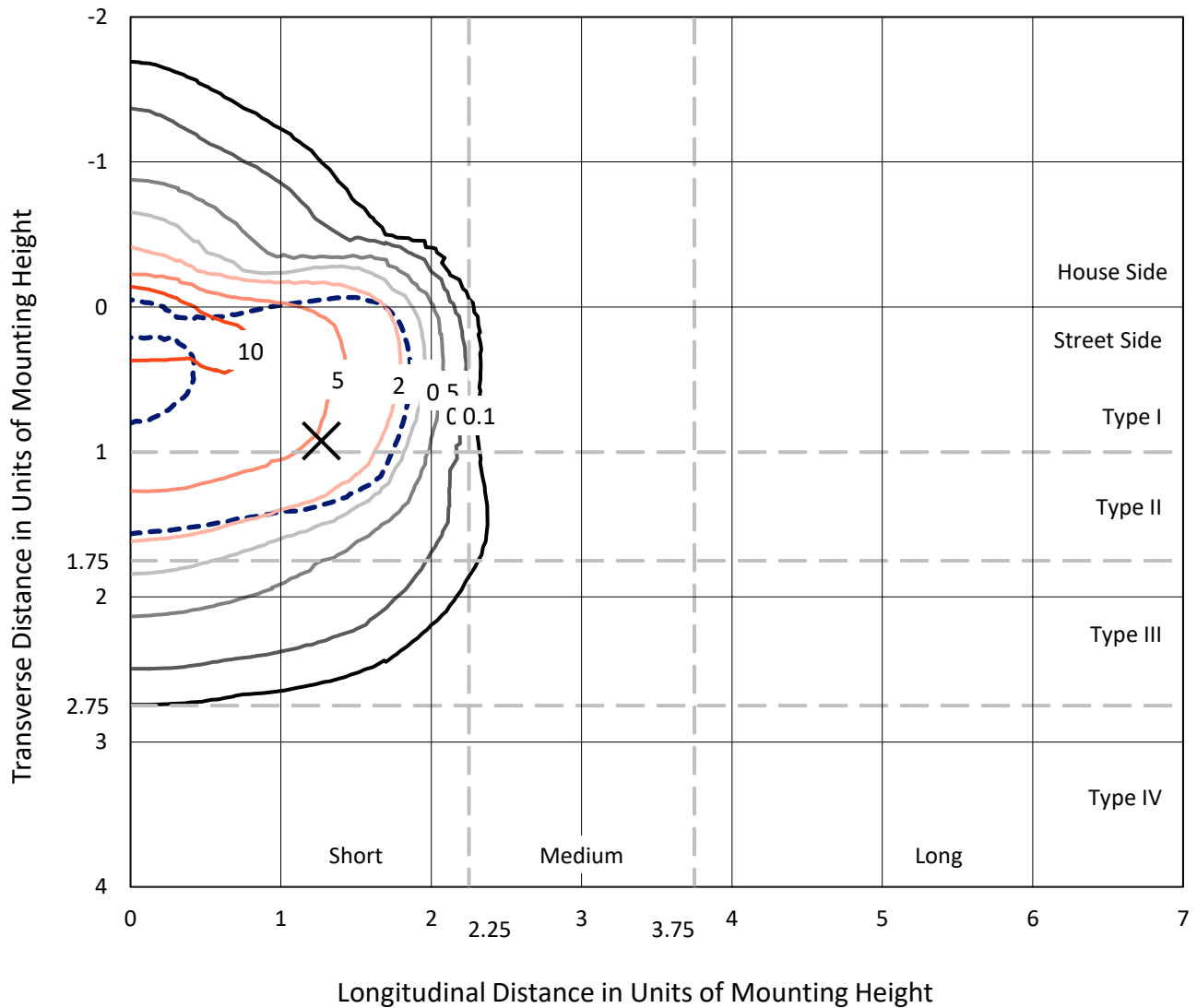
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

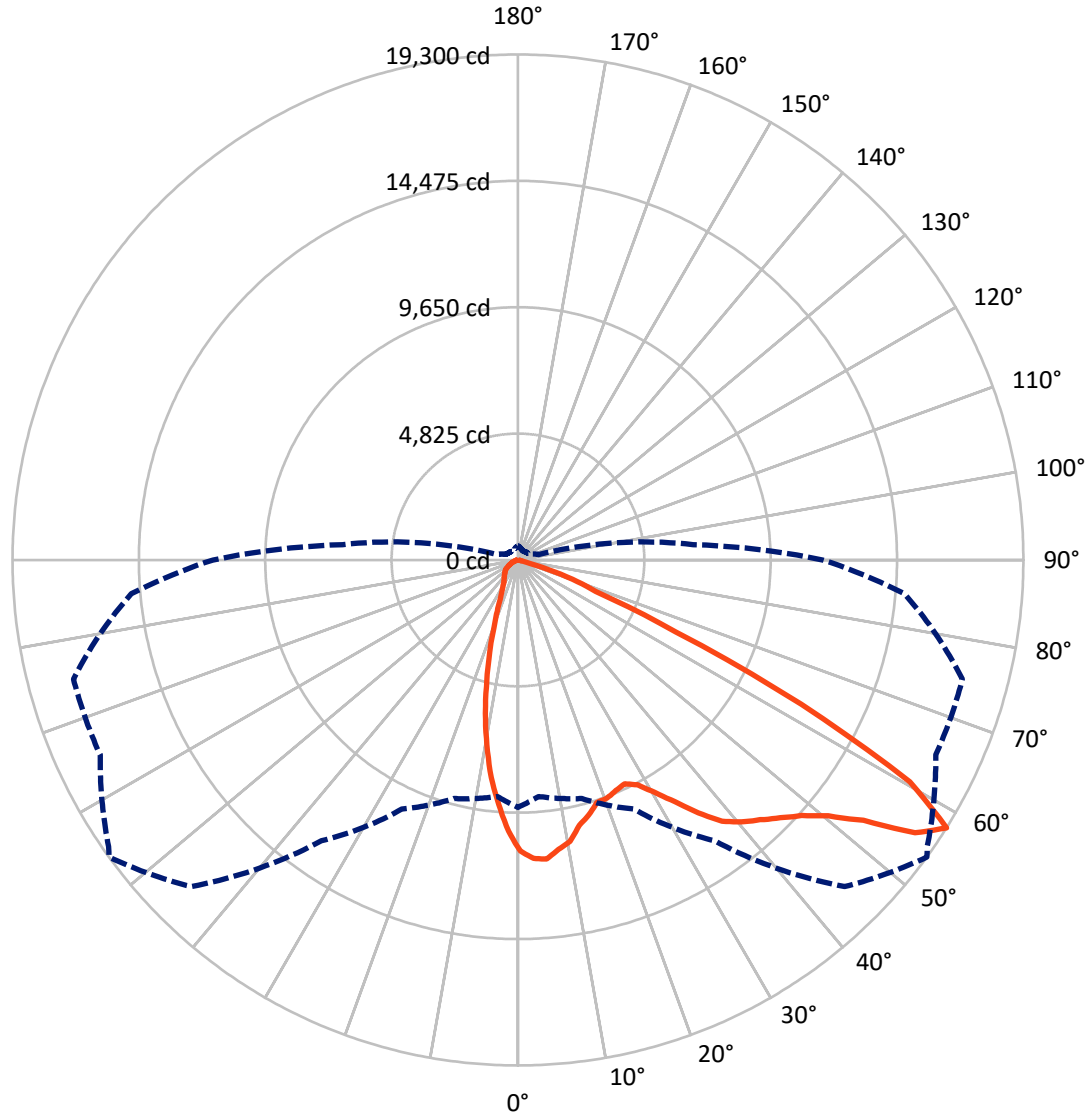
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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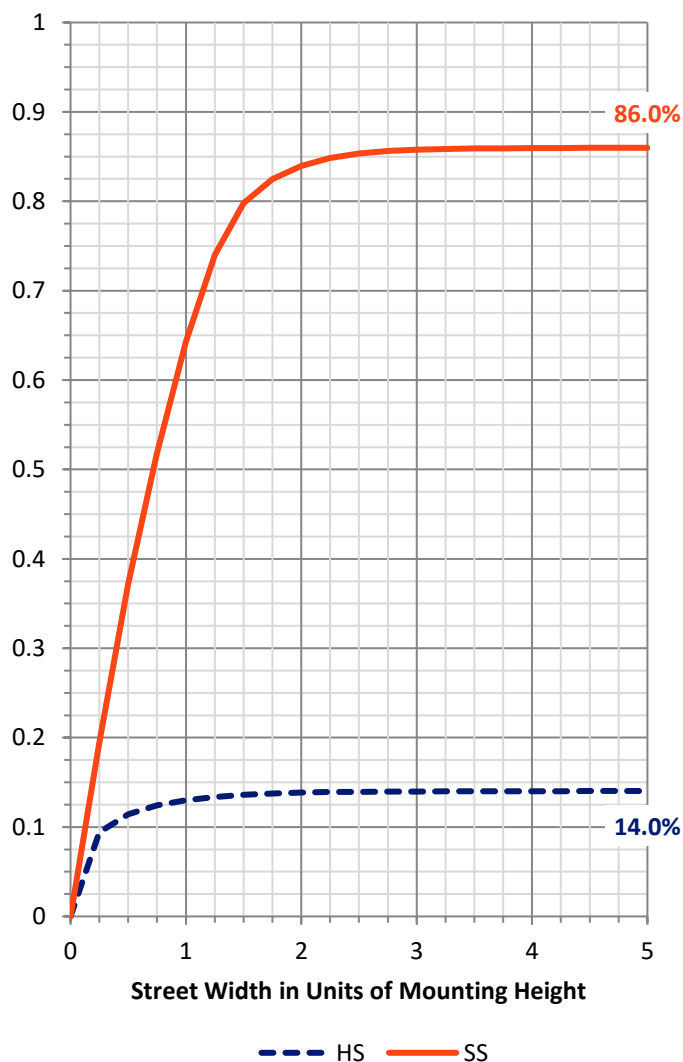
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3565.3	0.0	3565.3
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	21663.7	0.0	21663.7
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	25229.0	0.0	25229.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	930.0	3.7
10°-20°	1985.6	7.9
20°-30°	2631.3	10.4
30°-40°	3824.0	15.2
40°-50°	5670.4	22.5
50°-60°	7090.6	28.1
60°-70°	2796.9	11.1
70°-80°	278.5	1.1
80°-90°	21.7	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°	25229.0	100.0
0°-180°	25229.0	100.0

**Coefficient of Utilization**



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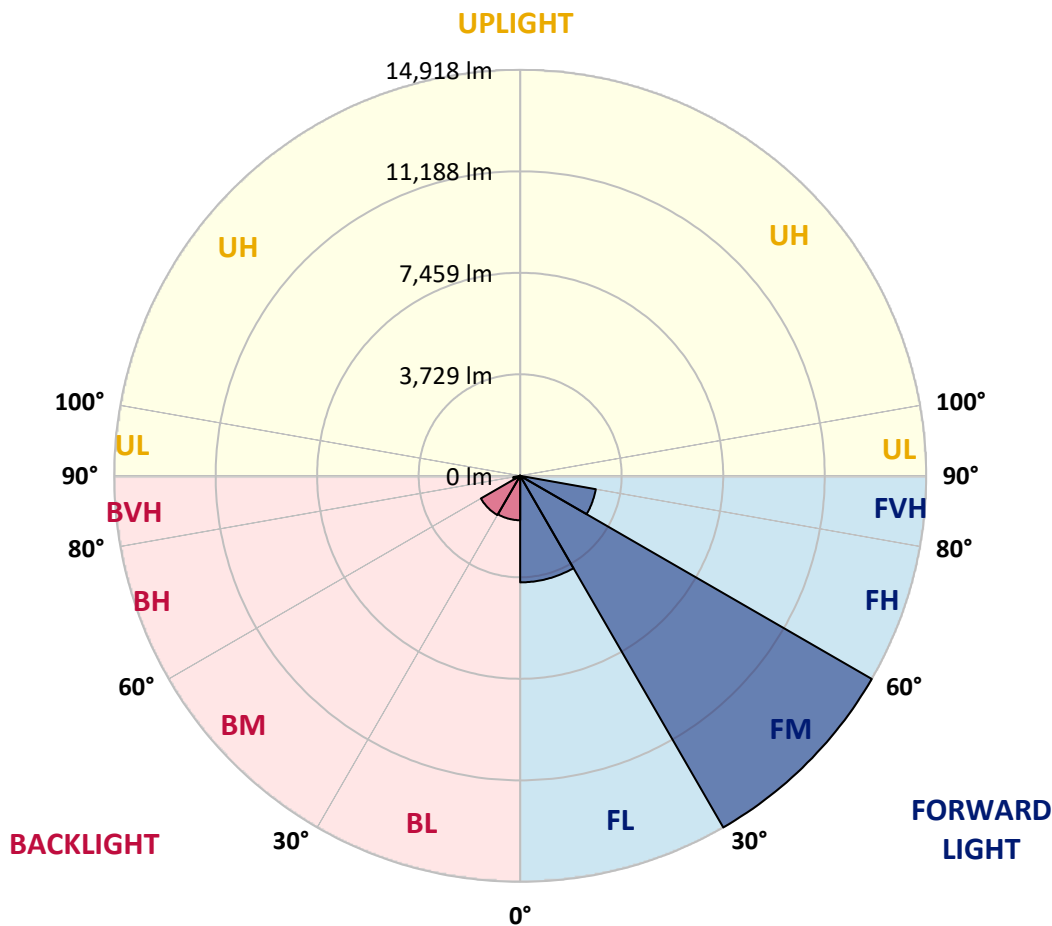
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3916.3	15.5			
FM (30°-60°)	14917.9	59.1			
FH (60°-80°)	2819.8	11.2			G2/5000
FVH (80°-90°)	9.8	0.0			G0/10
BL (0°-30°)	1630.6	6.5	B3/2500		
BM (30°-60°)	1667.2	6.6	B2/2500		
BH (60°-80°)	255.7	1.0	B1/500		G1/500
BVH (80°-90°)	11.8	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	11113.7	11113.7	11113.7	11113.7	11113.7	11113.7	11113.7	11113.7	11113.7	11113.7	11113.7
2.5°	11761.1	11639.1	11648.5	11606.3	11550.0	11592.2	11409.3	11451.5	11446.8	11198.2	11034.0
5°	11465.6	11596.9	11460.9	11573.5	11465.6	11582.8	11470.3	11385.8	11249.8	11066.8	10761.9
7.5°	10963.6	10836.9	10874.5	11015.2	11038.7	11301.4	11160.6	11268.5	11212.2	10851.0	10433.5
10°	9955.0	9926.8	10114.5	10302.1	10532.0	10813.5	10921.4	10860.4	10818.2	10682.1	10123.8
12.5°	9180.9	9260.6	9256.0	9565.6	9955.0	10114.5	10395.9	10386.6	10621.1	10367.8	9833.0
15°	8444.4	8486.6	8683.6	8876.0	9307.6	9762.6	10109.8	10156.7	10438.2	10259.9	9607.8
17.5°	7994.0	7933.0	8087.8	8317.7	8758.7	9354.5	9739.2	9851.8	10236.4	10198.9	9349.8
20°	7548.3	7548.3	7675.0	7947.1	8350.5	9021.4	9706.3	9673.5	10236.4	10128.5	9073.0
22.5°	7398.2	7473.3	7506.1	7712.5	8191.0	8768.1	9565.6	9626.6	10316.2	10095.7	8951.0
25°	7604.6	7506.1	7515.5	7679.7	8130.0	8646.1	9462.4	9598.4	10461.6	10259.9	8852.5
27.5°	7637.5	7736.0	7764.1	7876.7	8177.0	8683.6	9720.4	9997.2	10822.9	10644.6	8880.7
30°	7923.6	8022.1	8017.4	8209.8	8416.2	8988.6	10297.4	10353.7	11568.8	11127.8	9054.2
32.5°	8270.8	8374.0	8406.8	8632.0	8796.2	9546.8	11001.1	11146.6	12286.5	11887.8	9509.3
35°	8702.4	8664.9	8815.0	9040.2	9392.0	10363.1	11859.6	12103.6	13060.6	12873.0	9978.4
37.5°	9241.9	9195.0	9340.4	9706.3	10184.8	11329.5	12652.5	12812.0	13623.6	13787.8	10846.3
40°	9621.9	9640.6	10081.6	10574.2	11080.9	12249.0	13154.4	13309.2	14017.6	14641.6	11503.1
42.5°	10255.2	10372.5	10902.6	11503.1	12033.2	12938.6	13562.6	13712.7	14200.6	15326.5	12389.8
45°	11174.7	11123.1	11709.5	12380.4	12966.8	13656.4	14045.8	13994.2	14308.5	16006.8	12948.0
47.5°	12356.9	12366.3	12755.7	13328.0	13937.9	14280.3	14585.3	14402.3	14533.7	16724.5	13693.9
50°	13163.8	13234.2	13548.5	14134.9	14439.9	14965.3	15354.7	15242.1	15199.8	17156.1	14163.1
52.5°	13370.2	13581.3	13750.2	14482.1	15195.2	16025.5	16522.8	16762.1	16011.4	17301.6	14758.9
55°	11812.7	12000.4	12596.2	13600.1	15481.3	17705.0	18389.9	18394.6	17071.7	17949.0	15176.4
57.5°	9443.6	9063.6	9429.5	10494.5	13088.8	17634.6	19300.1	19079.6	17601.8	17569.0	14815.2
60°	6530.3	6436.5	6459.9	6882.2	9058.9	14027.0	17198.3	17484.5	16208.5	15228.0	11728.3
62.5°	5174.5	5094.8	4991.6	4944.6	5624.9	8739.9	12131.7	12535.2	11334.2	9875.2	6952.5
65°	4053.3	4006.4	4020.5	4208.1	4203.4	4958.7	6633.5	6469.3	5179.2	3828.1	2186.2
67.5°	2735.0	2805.4	2861.7	3429.3	3720.2	3452.8	3204.2	3110.3	1684.2	708.4	483.2
70°	1538.7	1548.1	1609.1	2143.9	2824.2	2678.7	2209.6	2209.6	839.7	258.0	276.8
72.5°	839.7	811.6	755.3	924.2	1257.3	1276.0	985.2	858.5	248.6	168.9	154.8
75°	408.1	403.5	347.2	286.2	272.1	225.2	173.6	159.5	112.6	107.9	93.8
77.5°	84.4	79.8	42.2	42.2	46.9	51.6	65.7	65.7	79.8	79.8	65.7
80°	0.0	0.0	4.7	18.8	32.8	46.9	56.3	56.3	65.7	65.7	51.6
82.5°	0.0	0.0	4.7	14.1	28.1	42.2	51.6	56.3	65.7	70.4	56.3
85°	0.0	0.0	0.0	9.4	23.5	32.8	28.1	28.1	23.5	18.8	9.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11113.7	11113.7	11113.7	11113.7	11113.7	11113.7	11113.7	11113.7	11113.7	11113.7	11113.7
2.5°	10949.5	10940.1	10724.3	10602.4	10381.9	10189.5	10034.7	9922.1	9922.1	9851.8	9786.1
5°	10639.9	10560.1	10100.4	9804.8	9387.3	9077.7	8866.6	8702.4	8444.4	8514.7	8237.9
7.5°	10255.2	10053.5	9443.6	8993.2	8416.2	7975.2	7524.9	7126.1	6741.4	6567.8	6661.7
10°	9842.4	9490.5	8669.5	7956.5	7238.7	6431.8	5906.4	5268.3	4874.3	4850.8	4747.6
12.5°	9406.1	9007.3	8008.1	7022.9	6079.9	5108.8	4306.6	3710.8	3443.4	3147.9	3204.2
15°	9077.7	8486.6	7271.5	6084.6	4832.0	3851.6	3044.7	2584.9	2331.6	2261.2	2237.8
17.5°	8721.1	8087.8	6520.9	5085.4	3790.6	2772.6	2190.8	1970.4	1871.8	1871.8	1857.8
20°	8350.5	7637.5	5775.0	4156.5	2842.9	2068.9	1754.6	1684.2	1679.5	1674.8	1674.8
22.5°	8106.6	7121.4	5099.5	3302.7	2143.9	1656.0	1524.7	1496.5	1515.3	1571.6	1571.6
25°	7848.6	6624.1	4353.5	2547.4	1660.7	1421.5	1346.4	1365.2	1412.1	1463.7	1444.9
27.5°	7585.8	6300.4	3649.8	1998.5	1360.5	1243.2	1215.0	1257.3	1308.9	1355.8	1341.7
30°	7524.9	5953.3	2983.7	1515.3	1168.1	1083.7	1102.5	1140.0	1191.6	1210.4	1229.1
32.5°	7618.7	5681.2	2444.2	1243.2	1018.0	994.6	994.6	1013.3	1046.2	1088.4	1074.3
35°	7886.1	5526.4	1932.8	1079.0	933.6	910.1	905.4	924.2	943.0	957.0	943.0
37.5°	8294.2	5404.4	1581.0	957.0	877.3	839.7	830.4	825.7	844.4	849.1	858.5
40°	8815.0	5470.1	1341.7	882.0	821.0	778.8	750.6	750.6	750.6	764.7	769.4
42.5°	9377.9	5559.2	1158.8	839.7	769.4	717.8	689.6	680.2	689.6	708.4	703.7
45°	9969.0	5732.8	1041.5	774.1	722.5	656.8	619.3	609.9	633.3	670.9	666.2
47.5°	10522.6	5981.4	952.3	731.8	675.5	614.6	567.6	558.3	600.5	652.1	656.8
50°	11076.2	6413.0	919.5	699.0	642.7	572.3	530.1	520.7	567.6	633.3	647.4
52.5°	11714.2	6877.5	896.0	656.8	605.2	539.5	492.6	483.2	534.8	619.3	623.9
55°	12131.7	7271.5	877.3	581.7	534.8	487.9	450.4	445.7	502.0	577.0	595.8
57.5°	11643.8	6722.6	811.6	506.7	455.1	431.6	398.8	398.8	445.7	516.0	530.1
60°	8829.0	4423.9	577.0	408.1	384.7	370.6	356.5	356.5	394.1	445.7	450.4
62.5°	5169.8	2383.2	370.6	328.4	328.4	314.3	290.9	290.9	328.4	356.5	361.2
65°	1534.1	764.7	300.2	281.5	276.8	253.3	229.9	225.2	253.3	267.4	262.7
67.5°	441.0	351.8	248.6	234.6	229.9	192.3	178.3	173.6	178.3	168.9	164.2
70°	262.7	239.3	192.3	197.0	173.6	140.7	126.7	122.0	112.6	98.5	89.1
72.5°	145.4	145.4	140.7	150.1	122.0	93.8	79.8	65.7	51.6	42.2	37.5
75°	89.1	93.8	98.5	103.2	79.8	61.0	51.6	32.8	18.8	9.4	9.4
77.5°	61.0	65.7	70.4	75.1	65.7	56.3	42.2	23.5	4.7	0.0	0.0
80°	46.9	51.6	61.0	65.7	70.4	75.1	56.3	23.5	4.7	0.0	0.0
82.5°	51.6	56.3	70.4	65.7	65.7	65.7	51.6	23.5	4.7	0.0	0.0
85°	9.4	14.1	23.5	23.5	32.8	42.2	32.8	9.4	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)