

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: P647108

Luminaire Tested: **GALN-SA8C-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647108
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-SA8C-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 1050mA 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: 25995.6 lumens
Efficiency: N/A
Efficacy: 60.6 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

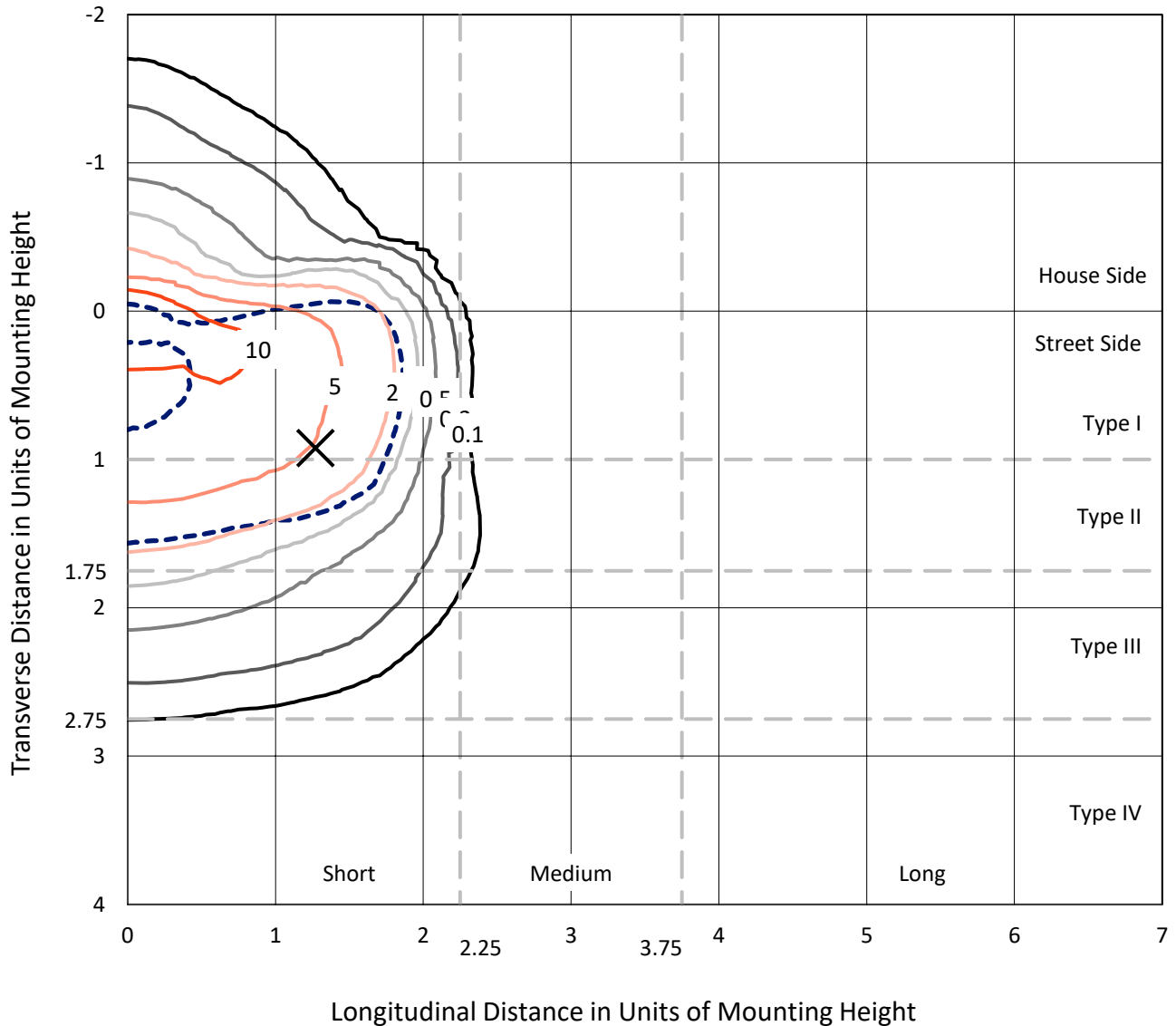
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

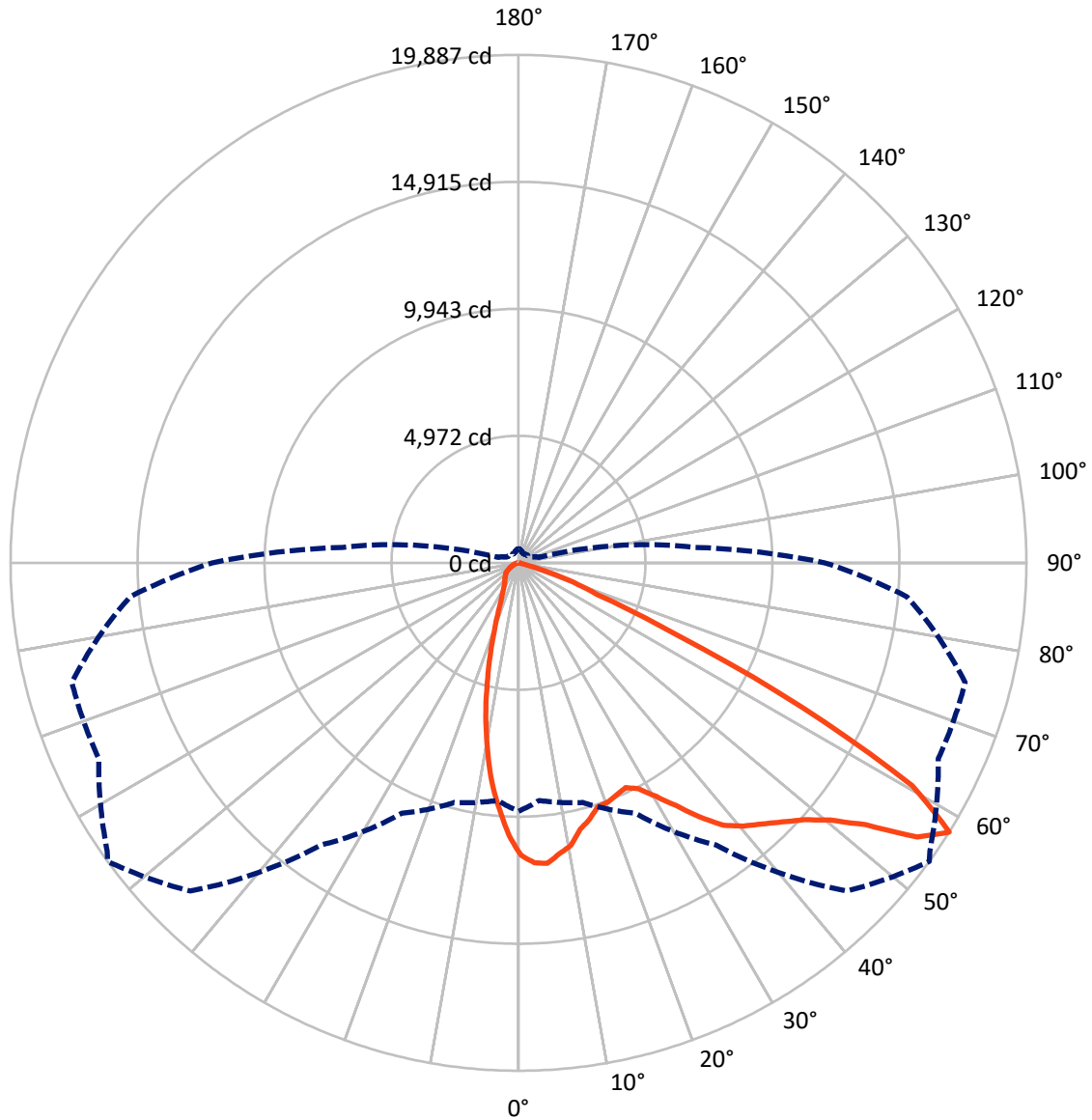
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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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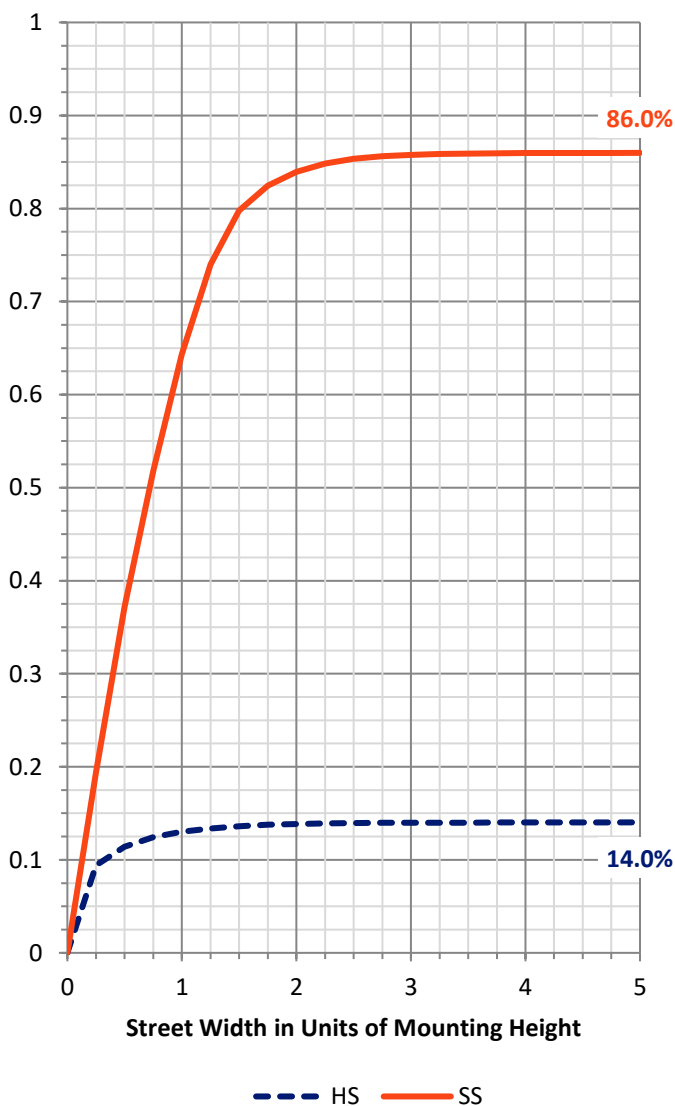
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3673.6	0.0	3673.6
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	22322.0	0.0	22322.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	25995.6	0.0	25995.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	958.3	3.7
10°-20°	2045.9	7.9
20°-30°	2711.2	10.4
30°-40°	3940.2	15.2
40°-50°	5842.7	22.5
50°-60°	7306.1	28.1
60°-70°	2881.9	11.1
70°-80°	286.9	1.1
80°-90°	22.3	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°	25995.6	100.0
0°-180°	25995.6	100.0

Coefficient of Utilization



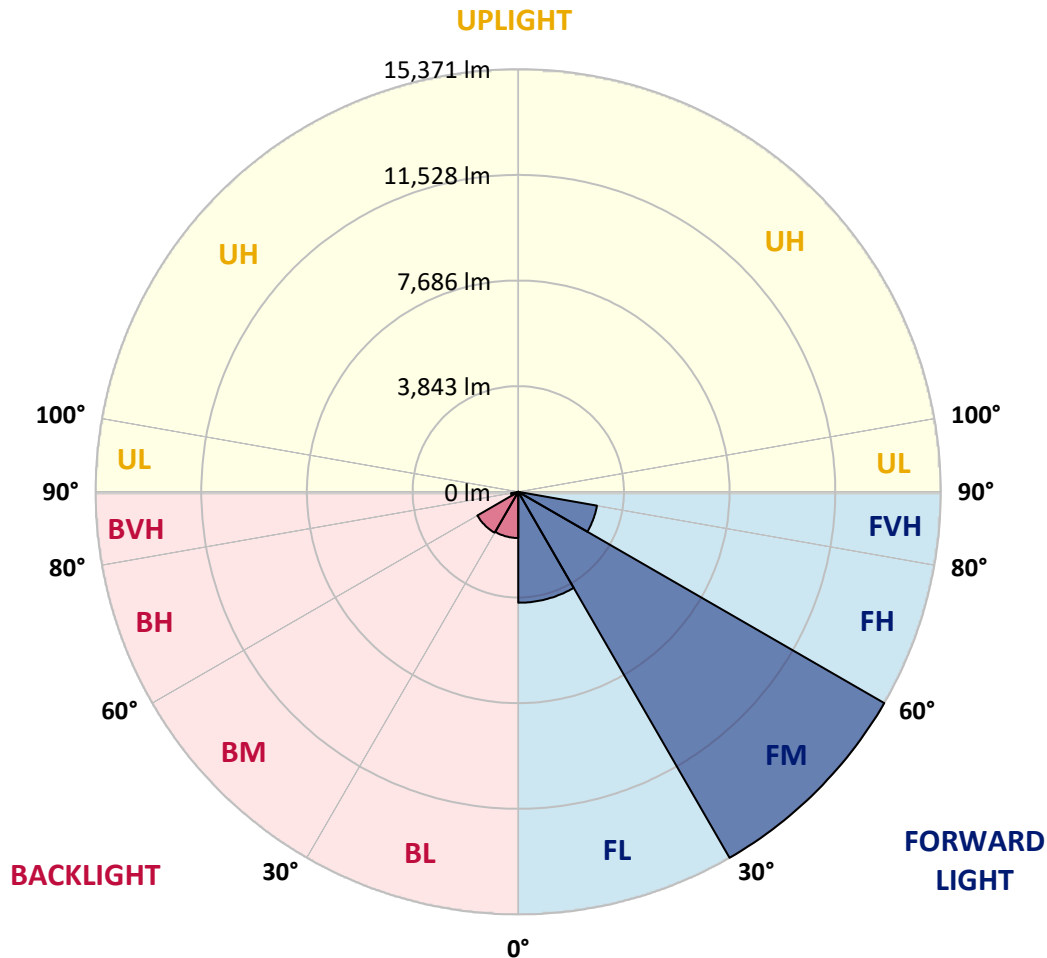
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4035.3	15.5			
FM (30°-60°)	15371.1	59.1			
FH (60°-80°)	2905.4	11.2			G2/5000
FVH (80°-90°)	10.1	0.0			G1/100
BL (0°-30°)	1680.1	6.5	B3/2500		
BM (30°-60°)	1717.9	6.6	B2/2500		
BH (60°-80°)	263.4	1.0	B1/500		G1/500
BVH (80°-90°)	12.2	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°	11451.4	11451.4	11451.4	11451.4	11451.4	11451.4	11451.4	11451.4	11451.4	11451.4	11451.4
2.5°	12118.5	11992.8	12002.5	11959.0	11901.0	11944.4	11756.0	11799.4	11794.6	11538.4	11369.2
5°	11814.0	11949.3	11809.1	11925.2	11814.0	11934.8	11818.8	11731.8	11591.6	11403.1	11088.8
7.5°	11296.7	11166.2	11204.9	11349.9	11374.1	11644.8	11499.8	11611.0	11552.9	11180.7	10750.5
10°	10257.5	10228.4	10421.8	10615.1	10852.0	11142.0	11253.2	11190.4	11146.9	11006.7	10431.4
12.5°	9459.9	9542.0	9537.2	9856.2	10257.5	10421.8	10711.8	10702.2	10943.8	10682.9	10131.8
15°	8700.9	8744.5	8947.5	9145.7	9590.3	10059.3	10417.0	10465.3	10755.4	10571.7	9899.7
17.5°	8236.9	8174.1	8333.5	8570.4	9024.8	9638.7	10035.1	10151.1	10547.5	10508.8	9633.9
20°	7777.7	7777.7	7908.2	8188.5	8604.2	9295.5	10001.3	9967.4	10547.5	10436.3	9348.7
22.5°	7623.0	7700.3	7734.2	7946.9	8439.9	9034.5	9856.2	9919.0	10629.7	10402.5	9223.0
25°	7835.7	7734.2	7743.9	7913.0	8377.1	8908.8	9749.9	9890.1	10779.5	10571.7	9121.5
27.5°	7869.5	7971.0	8000.1	8116.0	8425.4	8947.5	10015.7	10301.0	11151.7	10968.0	9150.5
30°	8164.4	8265.9	8261.0	8459.2	8672.0	9261.6	10610.4	10668.3	11920.3	11465.9	9329.4
32.5°	8522.1	8628.4	8662.3	8894.3	9063.5	9836.9	11335.4	11485.3	12659.9	12249.0	9798.2
35°	8966.8	8928.2	9082.8	9314.9	9677.4	10678.0	12220.0	12471.4	13457.5	13264.1	10281.7
37.5°	9522.7	9474.4	9624.2	10001.3	10494.3	11673.7	13037.0	13201.3	14037.5	14206.7	11175.9
40°	9914.3	9933.6	10388.0	10895.5	11417.5	12621.2	13554.1	13713.6	14443.6	15086.5	11852.6
42.5°	10566.8	10687.6	11233.9	11852.6	12398.9	13331.7	13974.7	14129.4	14632.1	15792.2	12766.2
45°	11514.2	11461.1	12065.3	12756.6	13360.8	14071.4	14472.6	14419.4	14743.3	16493.1	13341.5
47.5°	12732.4	12742.1	13143.3	13733.0	14361.4	14714.3	15028.4	14840.0	14975.3	17232.7	14110.1
50°	13563.8	13636.3	13960.2	14564.4	14878.6	15420.0	15821.2	15705.2	15661.7	17677.4	14593.4
52.5°	13776.5	13994.0	14168.1	14922.1	15656.9	16512.5	17024.8	17271.4	16498.0	17827.3	15207.3
55°	12171.7	12365.0	12978.9	14013.4	15951.7	18243.0	18948.8	18953.5	17590.4	18494.4	15637.5
57.5°	9730.6	9339.0	9716.1	10813.3	13486.5	18170.5	19886.5	19659.3	18136.6	18102.8	15265.3
60°	6728.7	6632.1	6656.2	7091.2	9334.1	14453.2	17720.9	18015.8	16701.0	15690.7	12084.7
62.5°	5331.8	5249.5	5143.2	5094.9	5795.8	9005.5	12500.4	12916.1	11678.6	10175.2	7163.7
65°	4176.4	4128.1	4142.6	4335.9	4331.2	5109.4	6835.0	6665.9	5336.6	3944.4	2252.6
67.5°	2818.2	2890.7	2948.6	3533.5	3833.3	3557.7	3301.5	3204.8	1735.4	729.9	497.9
70°	1585.5	1595.2	1658.0	2209.1	2910.0	2760.2	2276.7	2276.7	865.3	265.8	285.2
72.5°	865.3	836.2	778.2	952.3	1295.5	1314.8	1015.1	884.6	256.2	174.0	159.5
75°	420.5	415.7	357.7	294.9	280.4	232.0	178.8	164.4	116.0	111.2	96.7
77.5°	87.0	82.1	43.5	43.5	48.3	53.2	67.7	67.7	82.1	82.1	67.7
80°	0.0	0.0	4.9	19.3	33.8	48.3	58.0	58.0	67.7	67.7	53.2
82.5°	0.0	0.0	4.9	14.5	29.0	43.5	53.2	58.0	67.7	72.5	58.0
85°	0.0	0.0	0.0	9.6	24.2	33.8	29.0	29.0	24.2	19.3	9.6
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°	11451.4	11451.4	11451.4	11451.4	11451.4	11451.4	11451.4	11451.4	11451.4	11451.4	11451.4
2.5°	11282.2	11272.5	11050.2	10924.5	10697.3	10499.2	10339.6	10223.6	10223.6	10151.1	10083.4
5°	10963.2	10881.0	10407.3	10102.7	9672.6	9353.5	9136.0	8966.8	8700.9	8773.4	8488.3
7.5°	10566.8	10358.9	9730.6	9266.5	8672.0	8217.6	7753.5	7342.7	6946.2	6767.4	6864.1
10°	10141.4	9778.9	8932.9	8198.2	7458.6	6627.2	6085.9	5428.5	5022.4	4998.2	4891.9
12.5°	9691.9	9281.0	8251.4	7236.3	6264.7	5264.1	4437.5	3823.5	3548.1	3243.5	3301.5
15°	9353.5	8744.5	7492.4	6269.5	4978.9	3968.6	3137.2	2663.5	2402.4	2329.9	2305.8
17.5°	8986.2	8333.5	6719.1	5239.9	3905.8	2856.8	2257.4	2030.2	1928.7	1928.7	1914.2
20°	8604.2	7869.5	5950.5	4282.8	2929.3	2131.7	1807.9	1735.4	1730.5	1725.7	1725.7
22.5°	8352.9	7337.8	5254.4	3403.1	2209.1	1706.3	1571.0	1542.0	1561.3	1619.3	1619.3
25°	8087.1	6825.4	4485.8	2624.8	1711.2	1464.7	1387.3	1406.7	1455.0	1508.1	1488.8
27.5°	7816.4	6491.9	3760.7	2059.2	1401.8	1281.0	1251.9	1295.5	1348.6	1397.0	1382.5
30°	7753.5	6134.2	3074.4	1561.3	1203.6	1116.6	1136.0	1174.7	1227.8	1247.2	1266.5
32.5°	7850.2	5853.8	2518.4	1281.0	1049.0	1024.8	1024.8	1044.1	1078.0	1121.5	1106.9
35°	8125.7	5694.3	1991.6	1111.8	961.9	937.8	932.9	952.3	971.6	986.1	971.6
37.5°	8546.3	5568.6	1629.0	986.1	903.9	865.3	855.6	850.7	870.1	874.9	884.6
40°	9082.8	5636.3	1382.5	908.7	846.0	802.4	773.4	773.4	773.4	787.9	792.8
42.5°	9662.8	5728.1	1194.0	865.3	792.8	739.5	710.6	700.9	710.6	729.9	725.1
45°	10271.9	5907.0	1073.1	797.6	744.4	676.7	638.1	628.4	652.6	691.2	686.4
47.5°	10842.4	6163.1	981.3	754.1	696.1	633.2	584.9	575.2	618.7	671.9	676.7
50°	11412.8	6607.9	947.4	720.3	662.3	589.8	546.2	536.6	584.9	652.6	667.0
52.5°	12070.2	7086.5	923.2	676.7	623.6	555.9	507.5	497.9	551.1	638.1	642.9
55°	12500.4	7492.4	903.9	599.4	551.1	502.7	464.1	459.2	517.2	594.5	613.9
57.5°	11997.7	6926.9	836.2	522.0	468.9	444.7	410.8	410.8	459.2	531.7	546.2
60°	9097.3	4558.3	594.5	420.5	396.4	381.9	367.4	367.4	406.1	459.2	464.1
62.5°	5326.9	2455.6	381.9	338.3	338.3	323.8	299.7	299.7	338.3	367.4	372.2
65°	1580.6	787.9	309.4	290.0	285.2	261.1	236.9	232.0	261.1	275.5	270.7
67.5°	454.4	362.5	256.2	241.7	236.9	198.2	183.7	178.8	183.7	174.0	169.2
70°	270.7	246.5	198.2	203.0	178.8	145.0	130.5	125.7	116.0	101.5	91.8
72.5°	149.9	149.9	145.0	154.7	125.7	96.7	82.1	67.7	53.2	43.5	38.7
75°	91.8	96.7	101.5	106.3	82.1	62.9	53.2	33.8	19.3	9.6	9.6
77.5°	62.9	67.7	72.5	77.4	67.7	58.0	43.5	24.2	4.9	0.0	0.0
80°	48.3	53.2	62.9	67.7	72.5	77.4	58.0	24.2	4.9	0.0	0.0
82.5°	53.2	58.0	72.5	67.7	67.7	67.7	53.2	24.2	4.9	0.0	0.0
85°	9.6	14.5	24.2	24.2	33.8	43.5	33.8	9.6	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)