

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: P647163

Luminaire Tested: **GALN-SA9C-835-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647163
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-SA9C-835-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 29184.8 lumens
Efficiency: N/A
Efficacy: 60.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

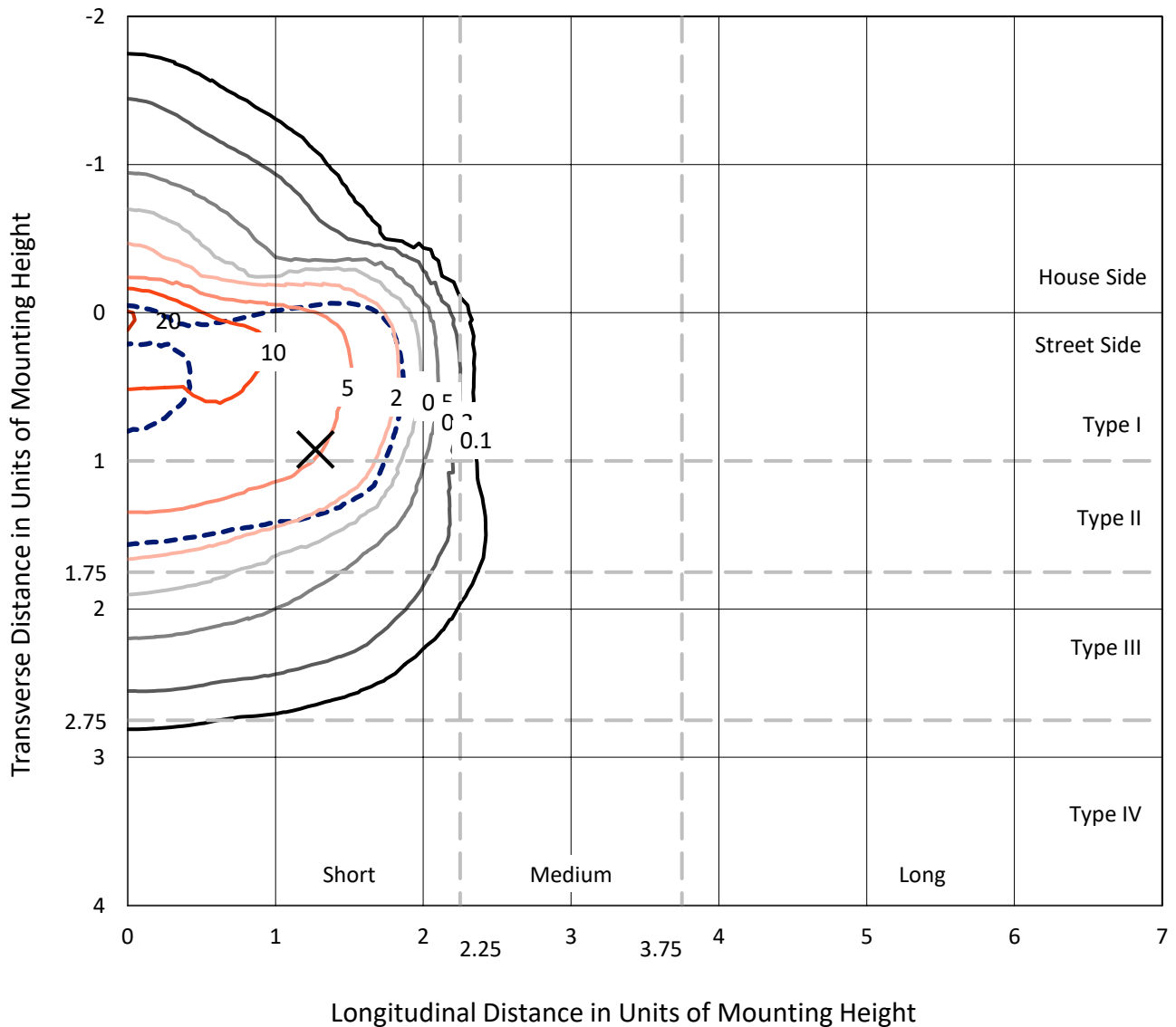
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

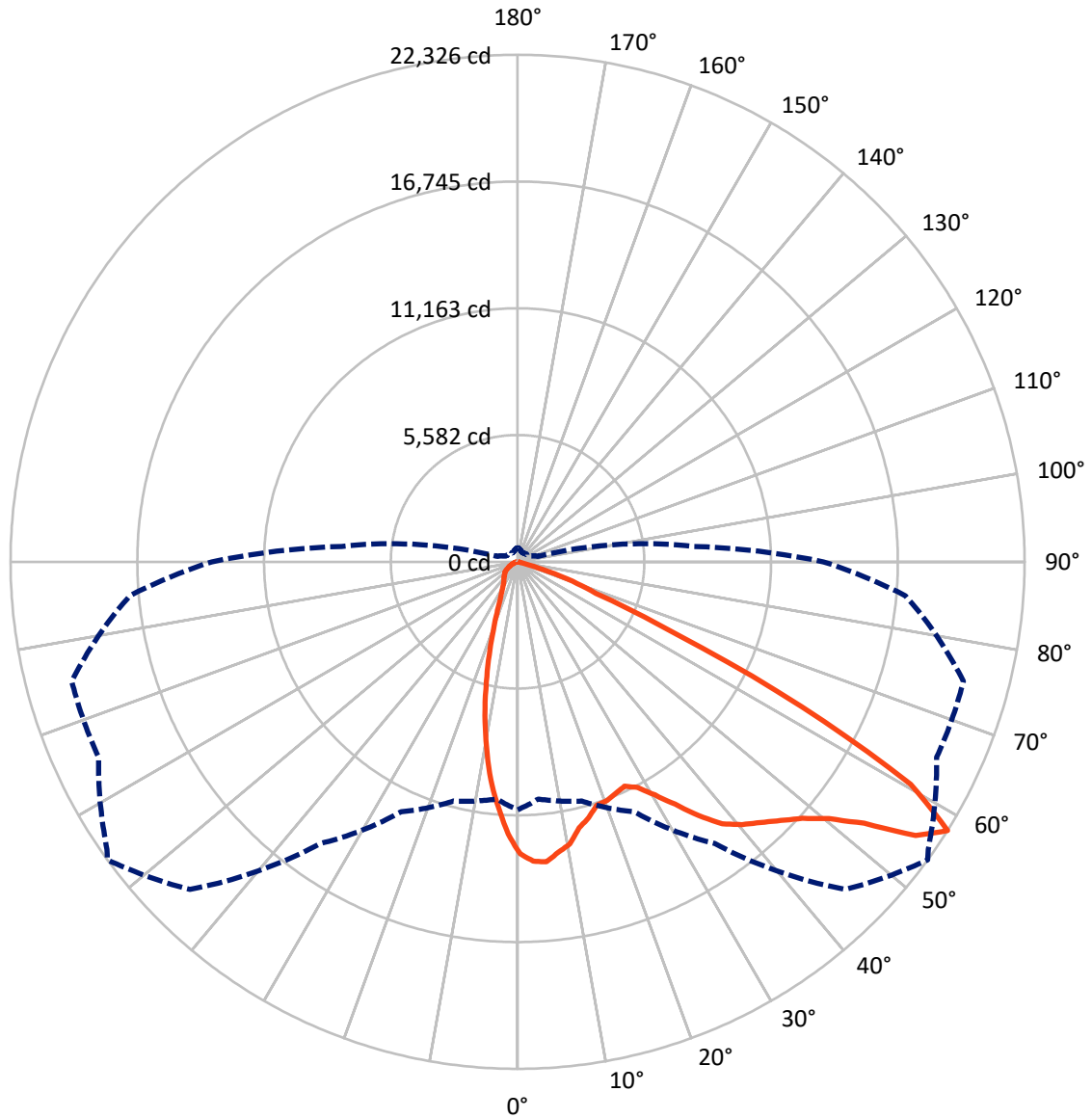
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.6 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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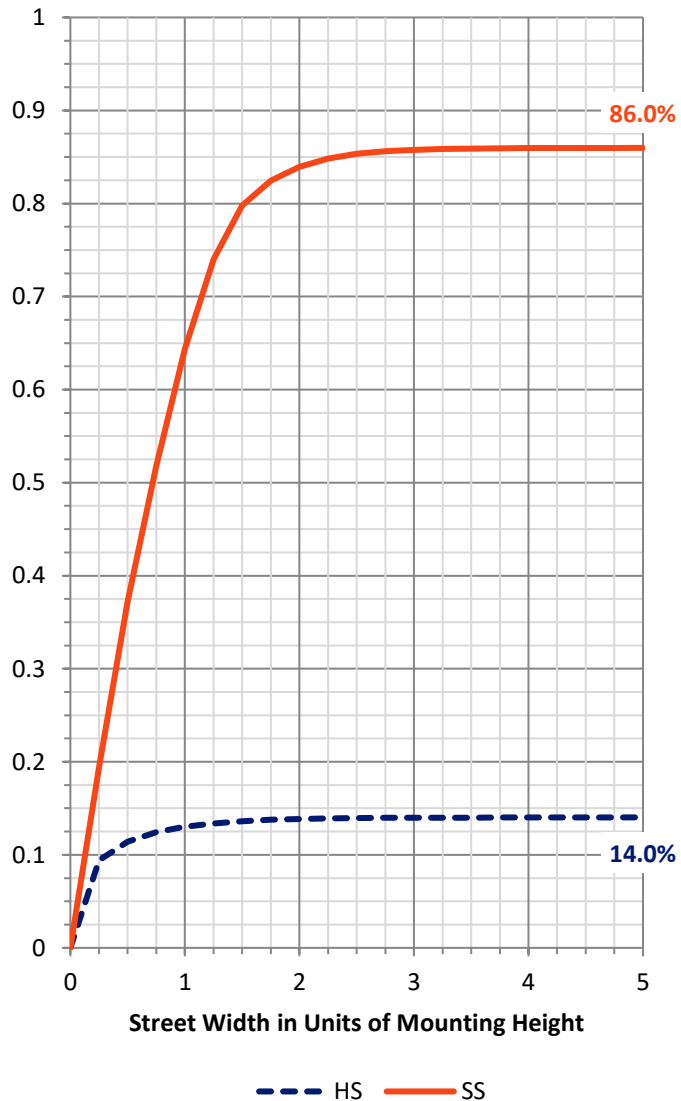
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4124.3	0.0	4124.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	25060.5	0.0	25060.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	29184.8	0.0	29184.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1075.8	3.7
10°-20°	2296.9	7.9
20°-30°	3043.8	10.4
30°-40°	4423.6	15.2
40°-50°	6559.5	22.5
50°-60°	8202.4	28.1
60°-70°	3235.5	11.1
70°-80°	322.1	1.1
80°-90°	25.1	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°	29184.8	100.0
0°-180°	29184.8	100.0

Coefficient of Utilization



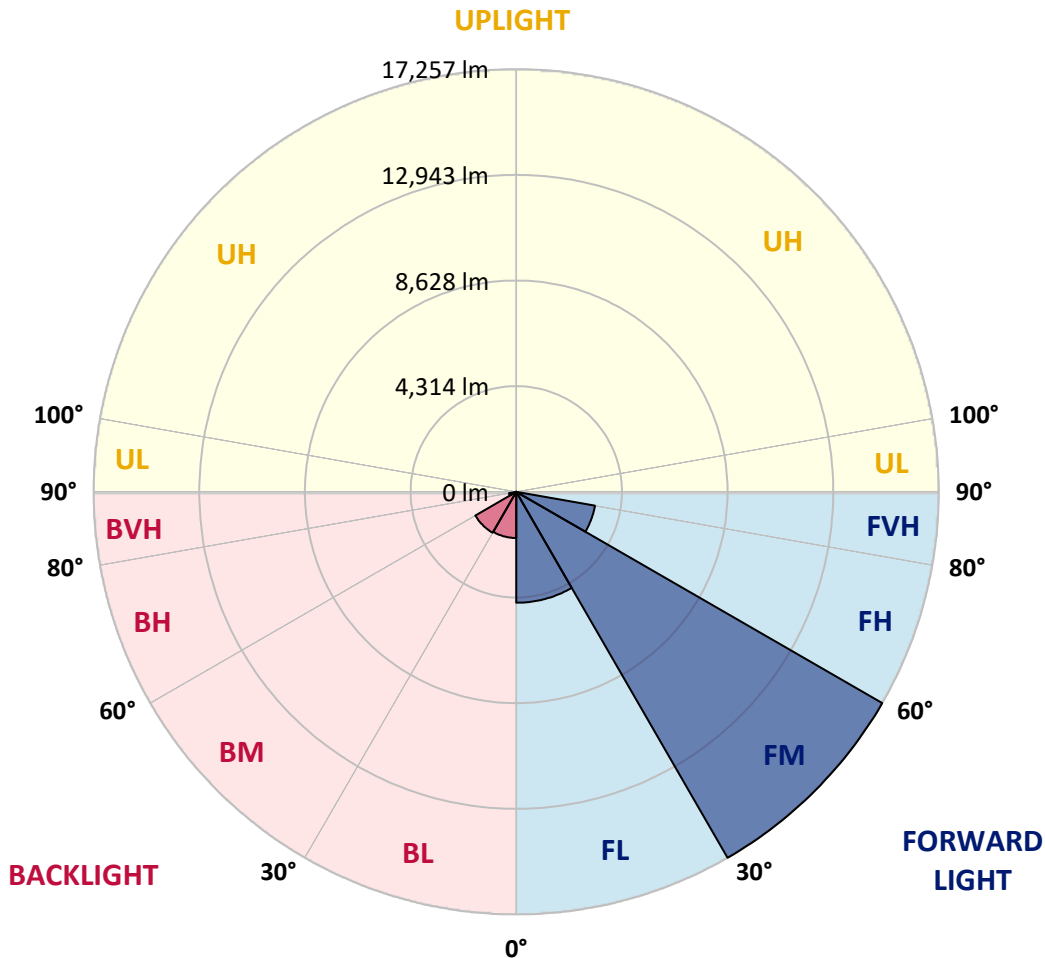
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4530.3	15.5			
FM (30°-60°)	17256.9	59.1			
FH (60°-80°)	3261.9	11.2			G2/5000
FVH (80°-90°)	11.4	0.0			G1/100
BL (0°-30°)	1886.3	6.5	B3/2500		
BM (30°-60°)	1928.6	6.6	B2/2500		
BH (60°-80°)	295.7	1.0	B1/500		G1/500
BVH (80°-90°)	13.7	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°	12856.3	12856.3	12856.3	12856.3	12856.3	12856.3	12856.3	12856.3	12856.3	12856.3	12856.3
2.5°	13605.2	13464.1	13475.0	13426.1	13361.0	13409.8	13198.2	13247.0	13241.6	12954.0	12764.0
5°	13263.3	13415.2	13257.8	13388.1	13263.3	13398.9	13268.7	13171.0	13013.7	12802.0	12449.2
7.5°	12682.6	12536.1	12579.5	12742.3	12769.5	13073.4	12910.6	13035.4	12970.2	12552.4	12069.4
10°	11515.8	11483.2	11700.4	11917.4	12183.3	12509.0	12633.8	12563.2	12514.4	12357.0	11711.2
12.5°	10620.4	10712.7	10707.2	11065.4	11515.8	11700.4	12025.9	12015.1	12286.4	11993.4	11374.7
15°	9768.4	9817.3	10045.2	10267.6	10767.0	11293.4	11694.9	11749.2	12074.8	11868.6	11114.2
17.5°	9247.4	9176.8	9355.9	9621.9	10132.0	10821.2	11266.2	11396.5	11841.5	11798.0	10815.7
20°	8731.9	8731.9	8878.4	9193.1	9659.9	10435.9	11228.2	11190.2	11841.5	11716.7	10495.6
22.5°	8558.2	8645.0	8683.0	8921.8	9475.3	10142.8	11065.4	11136.0	11933.7	11678.7	10354.5
25°	8797.0	8683.0	8693.9	8883.8	9404.8	10001.7	10946.0	11103.4	12102.0	11868.6	10240.5
27.5°	8835.0	8948.9	8981.5	9111.8	9459.0	10045.2	11244.5	11564.7	12519.8	12313.6	10273.1
30°	9166.0	9280.0	9274.6	9497.0	9735.8	10397.9	11912.0	11977.2	13382.7	12872.6	10473.9
32.5°	9567.6	9687.0	9724.9	9985.4	10175.4	11043.7	12726.0	12894.3	14213.0	13751.8	11000.3
35°	10066.9	10023.4	10197.1	10457.6	10864.6	11988.0	13719.2	14001.4	15108.5	14891.3	11543.0
37.5°	10690.9	10636.7	10804.9	11228.2	11781.7	13105.9	14636.3	14820.8	15759.7	15949.6	12546.9
40°	11130.5	11152.3	11662.4	12232.2	12818.3	14169.6	15217.0	15396.1	16215.5	16937.3	13306.7
42.5°	11863.2	11998.8	12612.1	13306.7	13919.9	14967.4	15689.1	15862.8	16427.2	17729.6	14332.4
45°	12926.9	12867.1	13545.5	14321.5	14999.9	15797.7	16248.1	16188.4	16552.0	18516.5	14978.2
47.5°	14294.4	14305.3	14755.7	15417.7	16123.2	16519.4	16872.2	16660.5	16812.5	19346.8	15841.0
50°	15227.9	15309.2	15672.8	16351.2	16704.0	17311.7	17762.2	17631.9	17583.1	19846.1	16383.7
52.5°	15466.6	15710.8	15906.2	16752.8	17577.6	18538.2	19113.5	19390.2	18521.9	20014.3	17073.0
55°	13664.9	13882.0	14571.2	15732.5	17908.7	20481.0	21273.4	21278.8	19748.4	20763.3	17556.0
57.5°	10924.3	10484.8	10908.1	12139.9	15141.0	20399.7	22326.1	22071.1	20361.7	20323.7	17138.1
60°	7554.2	7445.7	7472.8	7961.2	10479.3	16226.3	19894.9	20226.0	18749.9	17615.6	13567.2
62.5°	5985.9	5893.6	5774.2	5719.9	6506.8	10110.3	14033.9	14500.6	13111.3	11423.6	8042.7
65°	4688.8	4634.6	4650.9	4867.9	4862.5	5736.2	7673.6	7483.7	5991.3	4428.3	2528.9
67.5°	3163.9	3245.3	3310.4	3967.1	4303.5	3994.2	3706.6	3598.0	1948.3	819.5	559.0
70°	1780.0	1790.9	1861.4	2480.1	3267.0	3098.7	2556.0	2556.0	971.4	298.5	320.2
72.5°	971.4	938.8	873.7	1069.1	1454.4	1476.1	1139.7	993.2	287.6	195.4	179.1
75°	472.1	466.7	401.6	331.1	314.8	260.5	200.8	184.5	130.2	124.8	108.5
77.5°	97.7	92.2	48.9	48.9	54.3	59.7	76.0	76.0	92.2	92.2	76.0
80°	0.0	0.0	5.4	21.7	38.0	54.3	65.1	65.1	76.0	76.0	59.7
82.5°	0.0	0.0	5.4	16.3	32.6	48.9	59.7	65.1	76.0	81.4	65.1
85°	0.0	0.0	0.0	10.9	27.2	38.0	32.6	32.6	27.2	21.7	10.9
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°	12856.3	12856.3	12856.3	12856.3	12856.3	12856.3	12856.3	12856.3	12856.3	12856.3	12856.3
2.5°	12666.4	12655.5	12405.9	12264.8	12009.7	11787.2	11608.1	11477.8	11477.8	11396.5	11320.5
5°	12308.1	12215.9	11684.1	11342.1	10859.2	10501.0	10256.8	10066.9	9768.4	9849.7	9529.6
7.5°	11863.2	11629.8	10924.3	10403.3	9735.8	9225.7	8704.7	8243.4	7798.4	7597.6	7706.2
10°	11385.6	10978.6	10028.9	9204.0	8373.7	7440.2	6832.5	6094.4	5638.5	5611.4	5492.0
12.5°	10880.9	10419.6	9263.7	8124.0	7033.2	5909.8	4981.8	4292.6	3983.4	3641.4	3706.6
15°	10501.0	9817.3	8411.7	7038.7	5589.7	4455.5	3522.0	2990.2	2697.1	2615.8	2588.6
17.5°	10088.6	9355.9	7543.3	5882.8	4385.0	3207.3	2534.3	2279.3	2165.3	2165.3	2149.0
20°	9659.9	8835.0	6680.5	4808.2	3288.7	2393.2	2029.6	1948.3	1942.9	1937.4	1937.4
22.5°	9377.7	8238.0	5899.0	3820.5	2480.1	1915.7	1763.7	1731.2	1752.9	1818.0	1818.0
25°	9079.2	7662.8	5036.2	2946.8	1921.1	1644.4	1557.5	1579.2	1633.5	1693.2	1671.5
27.5°	8775.2	7288.3	4222.1	2311.9	1573.8	1438.1	1405.6	1454.4	1514.1	1568.3	1552.1
30°	8704.7	6886.7	3451.5	1752.9	1351.3	1253.6	1275.4	1318.7	1378.4	1400.2	1421.8
32.5°	8813.3	6572.0	2827.4	1438.1	1177.6	1150.5	1150.5	1172.2	1210.2	1259.1	1242.8
35°	9122.6	6392.9	2235.9	1248.2	1079.9	1052.8	1047.4	1069.1	1090.8	1107.1	1090.8
37.5°	9594.7	6251.8	1828.9	1107.1	1014.8	971.4	960.6	955.1	976.9	982.3	993.2
40°	10197.1	6327.7	1552.1	1020.2	949.7	900.8	868.3	868.3	868.3	884.6	890.0
42.5°	10848.3	6430.9	1340.4	971.4	890.0	830.3	797.7	786.9	797.7	819.5	814.0
45°	11532.1	6631.6	1204.8	895.4	835.8	759.7	716.4	705.5	732.7	776.0	770.6
47.5°	12172.5	6919.3	1101.7	846.6	781.4	710.9	656.6	645.8	694.7	754.3	759.7
50°	12812.9	7418.5	1063.7	808.6	743.5	662.1	613.2	602.4	656.6	732.7	748.9
52.5°	13550.9	7955.8	1036.5	759.7	700.1	624.1	569.8	559.0	618.6	716.4	721.8
55°	14033.9	8411.7	1014.8	672.9	618.6	564.4	521.0	515.5	580.7	667.5	689.2
57.5°	13469.5	7776.8	938.8	586.1	526.4	499.2	461.3	461.3	515.5	597.0	613.2
60°	10213.4	5117.5	667.5	472.1	445.0	428.7	412.4	412.4	455.9	515.5	521.0
62.5°	5980.4	2756.9	428.7	379.9	379.9	363.6	336.5	336.5	379.9	412.4	417.9
65°	1774.6	884.6	347.3	325.6	320.2	293.1	265.9	260.5	293.1	309.4	303.9
67.5°	510.1	407.0	287.6	271.3	265.9	222.5	206.2	200.8	206.2	195.4	190.0
70°	303.9	276.8	222.5	227.9	200.8	162.8	146.5	141.1	130.2	113.9	103.1
72.5°	168.3	168.3	162.8	173.7	141.1	108.5	92.2	76.0	59.7	48.9	43.4
75°	103.1	108.5	113.9	119.4	92.2	70.5	59.7	38.0	21.7	10.9	10.9
77.5°	70.5	76.0	81.4	86.8	76.0	65.1	48.9	27.2	5.4	0.0	0.0
80°	54.3	59.7	70.5	76.0	81.4	86.8	65.1	27.2	5.4	0.0	0.0
82.5°	59.7	65.1	81.4	76.0	76.0	76.0	59.7	27.2	5.4	0.0	0.0
85°	10.9	16.3	27.2	27.2	38.0	48.9	38.0	10.9	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)