

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: P530521

Luminaire Tested: **GALN-SA5D-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530521
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-SA5D-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA 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: 20633 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

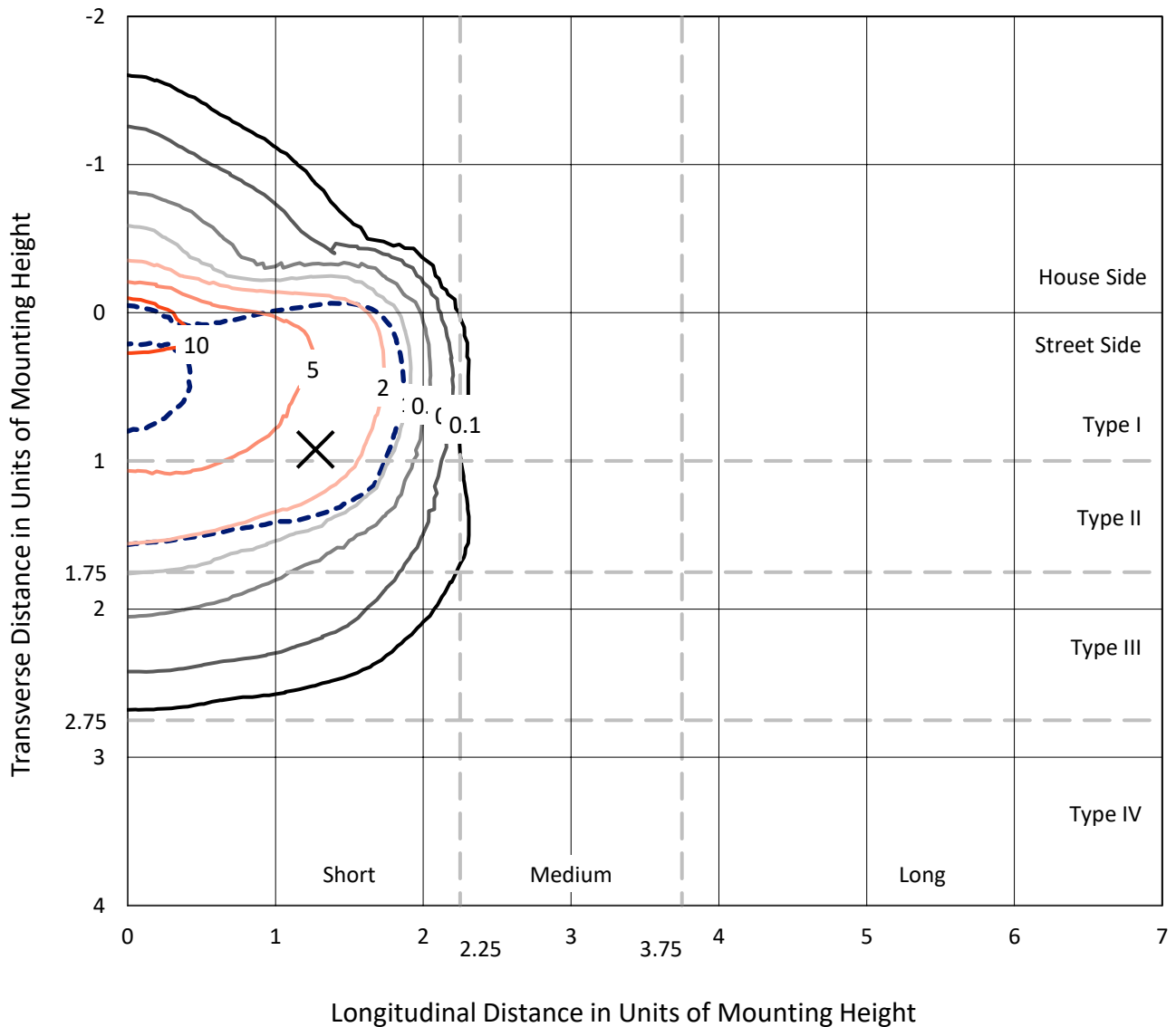
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

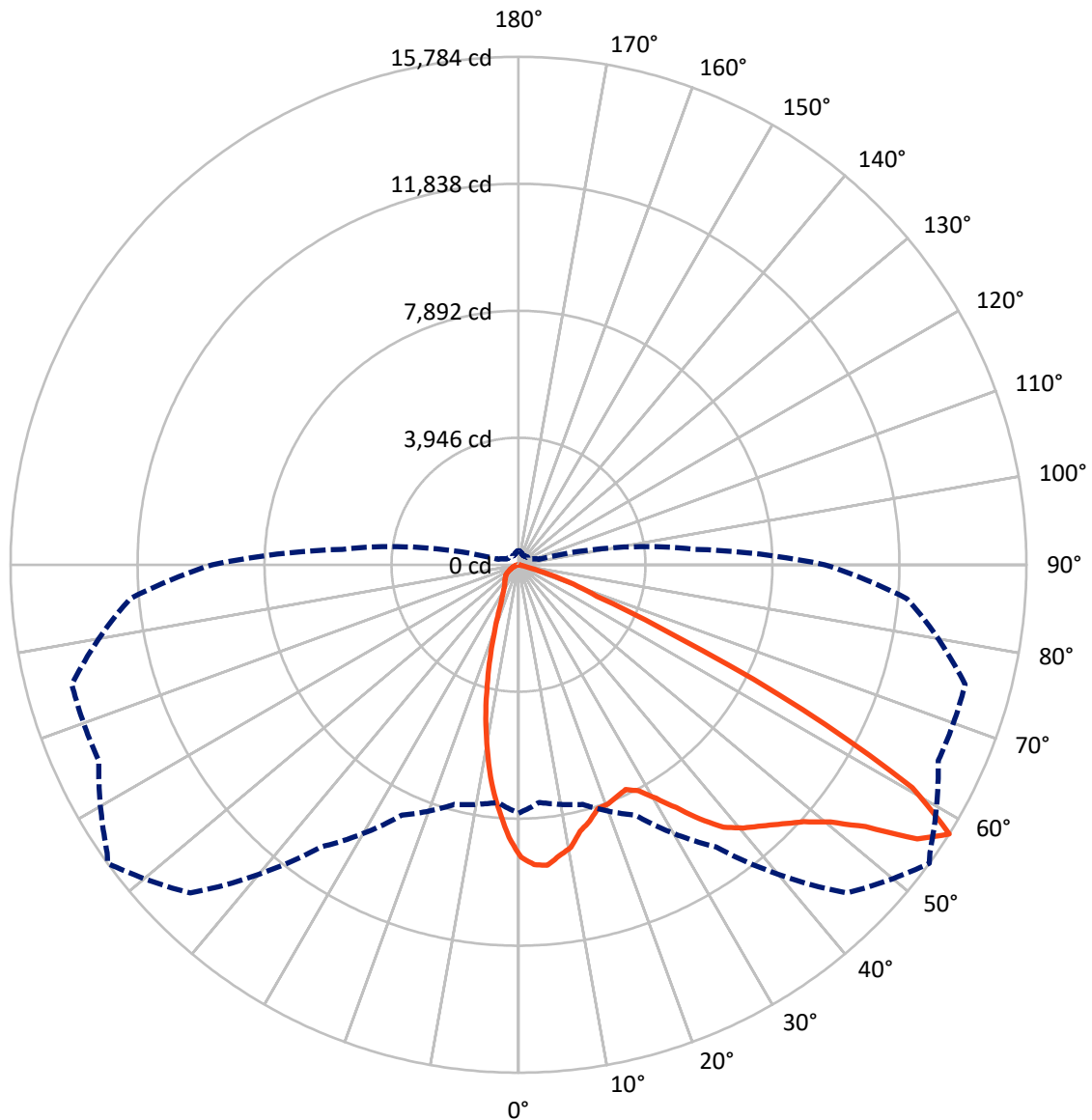
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 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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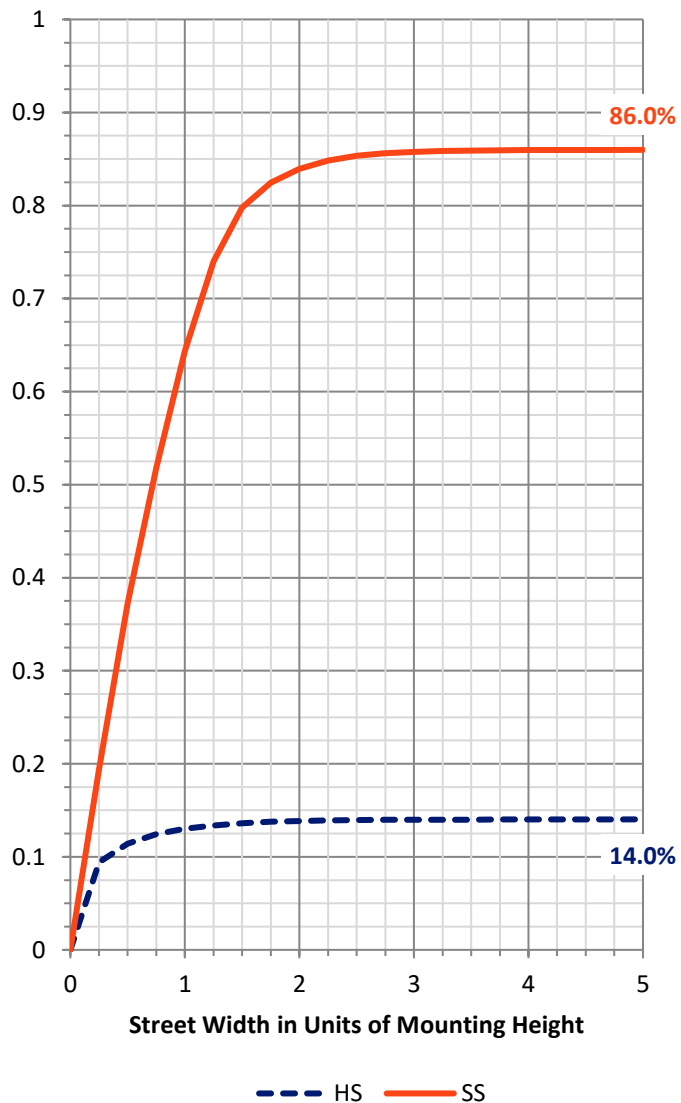
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2915.8	0.0	2915.8
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	17717.2	0.0	17717.2
	% Fixture	85.9	0.0	85.9
Total	Lumens	20633.0	0.0	20633.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	760.6	3.7
10°-20°	1623.9	7.9
20°-30°	2151.9	10.4
30°-40°	3127.4	15.2
40°-50°	4637.5	22.5
50°-60°	5798.9	28.1
60°-70°	2287.4	11.1
70°-80°	227.7	1.1
80°-90°	17.7	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°	20633.0	100.0
0°-180°	20633.0	100.0

Coefficient of Utilization



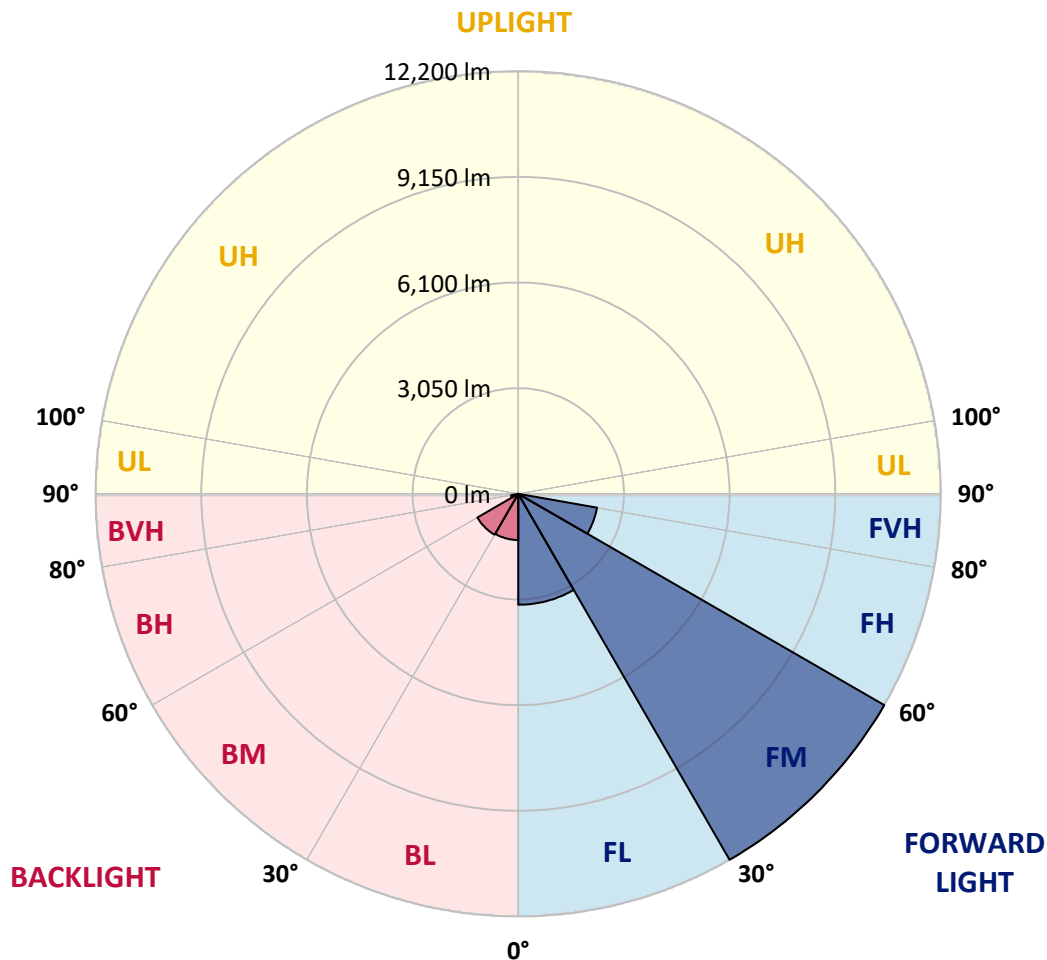
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3202.8	15.5			
FM (30°-60°)	12200.2	59.1			
FH (60°-80°)	2306.1	11.2			G2/5000
FVH (80°-90°)	8.0	0.0			G0/10
BL (0°-30°)	1333.5	6.5	B3/2500		
BM (30°-60°)	1363.5	6.6	B2/2500		
BH (60°-80°)	209.1	1.0	B1/500		G1/500
BVH (80°-90°)	9.7	0.0			G0/10
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°	9089.1	9089.1	9089.1	9089.1	9089.1	9089.1	9089.1	9089.1	9089.1	9089.1	9089.1
2.5°	9618.6	9518.8	9526.5	9492.0	9445.9	9480.5	9330.8	9365.4	9361.5	9158.2	9023.9
5°	9376.9	9484.3	9373.0	9465.1	9376.9	9472.8	9380.7	9311.6	9200.4	9050.7	8801.4
7.5°	8966.3	8862.7	8893.4	9008.5	9027.7	9242.6	9127.5	9215.7	9169.7	8874.3	8532.8
10°	8141.5	8118.4	8271.9	8425.4	8613.4	8843.6	8931.8	8881.9	8847.4	8736.1	8279.6
12.5°	7508.4	7573.6	7569.8	7823.0	8141.5	8271.9	8502.1	8494.4	8686.3	8479.1	8041.7
15°	6906.0	6940.6	7101.7	7259.0	7612.0	7984.1	8268.1	8306.4	8536.6	8390.8	7857.5
17.5°	6537.7	6487.8	6614.5	6802.4	7163.1	7650.4	7965.0	8057.0	8371.7	8341.0	7646.5
20°	6173.2	6173.2	6276.8	6499.3	6829.3	7378.0	7938.1	7911.3	8371.7	8283.4	7420.2
22.5°	6050.5	6111.8	6138.7	6307.5	6698.9	7170.8	7823.0	7872.9	8436.9	8256.6	7320.4
25°	6219.3	6138.7	6146.4	6280.7	6649.0	7071.0	7738.6	7849.9	8555.8	8390.8	7239.8
27.5°	6246.1	6326.7	6349.7	6441.8	6687.3	7101.7	7949.6	8176.0	8851.2	8705.4	7262.9
30°	6480.2	6560.7	6556.9	6714.2	6883.0	7351.1	8421.5	8467.6	9461.3	9100.6	7404.8
32.5°	6764.1	6848.5	6875.3	7059.5	7193.8	7807.7	8997.0	9116.0	10048.3	9722.2	7777.0
35°	7117.1	7086.4	7209.1	7393.3	7681.0	8475.2	9699.1	9898.7	10681.3	10527.9	8160.6
37.5°	7558.3	7519.9	7638.8	7938.1	8329.5	9265.6	10347.5	10478.0	11141.7	11276.0	8870.4
40°	7869.0	7884.4	8245.0	8647.9	9062.3	10017.6	10758.1	10884.7	11464.0	11974.3	9407.6
42.5°	8387.0	8482.9	8916.5	9407.6	9841.1	10581.6	11091.9	11214.6	11613.7	12534.5	10132.7
45°	9139.0	9096.8	9576.4	10125.0	10604.6	11168.6	11487.0	11444.8	11701.9	13090.8	10589.3
47.5°	10105.8	10113.5	10432.0	10900.0	11398.8	11678.9	11928.3	11778.6	11886.1	13677.8	11199.3
50°	10765.7	10823.3	11080.4	11559.9	11809.3	12239.0	12557.5	12465.4	12430.9	14030.8	11583.0
52.5°	10934.6	11107.2	11245.3	11843.9	12427.0	13106.1	13512.8	13708.5	13094.6	14149.7	12070.2
55°	9660.8	9814.2	10301.5	11122.6	12661.1	14479.7	15039.8	15043.7	13961.7	14679.2	12411.7
57.5°	7723.3	7412.5	7711.7	8582.7	10704.4	14422.1	15784.1	15603.8	14395.3	14368.4	12116.3
60°	5340.7	5263.9	5283.1	5628.4	7408.6	11471.7	14065.3	14299.3	13255.8	12453.9	9591.7
62.5°	4231.9	4166.6	4082.2	4043.9	4600.2	7147.8	9921.7	10251.6	9269.4	8076.2	5686.0
65°	3314.9	3276.5	3288.0	3441.5	3437.7	4055.4	5425.1	5290.8	4235.7	3130.7	1787.9
67.5°	2236.8	2294.3	2340.4	2804.6	3042.5	2823.8	2620.5	2543.7	1377.4	579.3	395.2
70°	1258.4	1266.1	1316.0	1753.4	2309.7	2190.7	1807.1	1807.1	686.8	211.0	226.4
72.5°	686.8	663.7	617.7	755.8	1028.2	1043.6	805.7	702.1	203.3	138.1	126.6
75°	333.8	330.0	283.9	234.0	222.5	184.2	142.0	130.4	92.1	88.2	76.7
77.5°	69.1	65.2	34.5	34.5	38.4	42.2	53.7	53.7	65.2	65.2	53.7
80°	0.0	0.0	3.8	15.3	26.9	38.4	46.0	46.0	53.7	53.7	42.2
82.5°	0.0	0.0	3.8	11.5	23.0	34.5	42.2	46.0	53.7	57.6	46.0
85°	0.0	0.0	0.0	7.7	19.2	26.9	23.0	23.0	19.2	15.3	7.7
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°	9089.1	9089.1	9089.1	9089.1	9089.1	9089.1	9089.1	9089.1	9089.1	9089.1	9089.1
2.5°	8954.8	8947.2	8770.7	8670.9	8490.6	8333.3	8206.7	8114.6	8114.6	8057.0	8003.3
5°	8701.6	8636.4	8260.4	8018.7	7677.2	7424.0	7251.3	7117.1	6906.0	6963.6	6737.2
7.5°	8387.0	8222.0	7723.3	7354.9	6883.0	6522.4	6154.0	5827.9	5513.3	5371.4	5448.1
10°	8049.4	7761.6	7090.2	6507.0	5920.0	5260.1	4830.4	4308.6	3986.3	3967.1	3882.7
12.5°	7692.6	7366.4	6549.2	5743.5	4972.3	4178.2	3522.1	3034.8	2816.1	2574.4	2620.5
15°	7424.0	6940.6	5946.9	4976.2	3951.8	3149.9	2490.0	2114.0	1906.8	1849.3	1830.1
17.5°	7132.4	6614.5	5333.0	4159.0	3100.0	2267.5	1791.7	1611.4	1530.8	1530.8	1519.3
20°	6829.3	6246.1	4723.0	3399.3	2325.0	1692.0	1434.9	1377.4	1373.5	1369.7	1369.7
22.5°	6629.8	5824.1	4170.5	2701.0	1753.4	1354.4	1246.9	1223.9	1239.3	1285.3	1285.3
25°	6418.8	5417.4	3560.4	2083.3	1358.2	1162.5	1101.1	1116.5	1154.8	1197.0	1181.7
27.5°	6203.9	5152.7	2984.9	1634.4	1112.6	1016.7	993.7	1028.2	1070.4	1108.8	1097.3
30°	6154.0	4868.8	2440.1	1239.3	955.3	886.3	901.6	932.3	974.5	989.9	1005.2
32.5°	6230.8	4646.2	1998.9	1016.7	832.6	813.4	813.4	828.7	855.6	890.1	878.6
35°	6449.5	4519.6	1580.7	882.4	763.5	744.3	740.5	755.8	771.2	782.7	771.2
37.5°	6783.3	4419.9	1293.0	782.7	717.5	686.8	679.1	675.3	690.6	694.4	702.1
40°	7209.1	4473.6	1097.3	721.3	671.4	636.9	613.9	613.9	613.9	625.4	629.2
42.5°	7669.5	4546.5	947.7	686.8	629.2	587.0	564.0	556.3	564.0	579.3	575.5
45°	8153.0	4688.4	851.7	633.1	590.8	537.1	506.4	498.8	518.0	548.6	544.8
47.5°	8605.7	4891.8	778.8	598.5	552.5	502.6	464.2	456.6	491.1	533.3	537.1
50°	9058.4	5244.8	752.0	571.7	525.6	468.1	433.5	425.9	464.2	518.0	529.5
52.5°	9580.2	5624.6	732.8	537.1	494.9	441.2	402.9	395.2	437.4	506.4	510.3
55°	9921.7	5946.9	717.5	475.7	437.4	399.0	368.3	364.5	410.5	471.9	487.3
57.5°	9522.7	5498.0	663.7	414.4	372.2	353.0	326.1	326.1	364.5	422.0	433.5
60°	7220.6	3618.0	471.9	333.8	314.6	303.1	291.6	291.6	322.3	364.5	368.3
62.5°	4228.0	1949.0	303.1	268.6	268.6	257.1	237.9	237.9	268.6	291.6	295.4
65°	1254.6	625.4	245.5	230.2	226.4	207.2	188.0	184.2	207.2	218.7	214.9
67.5°	360.6	287.8	203.3	191.8	188.0	157.3	145.8	142.0	145.8	138.1	134.3
70°	214.9	195.7	157.3	161.1	142.0	115.1	103.6	99.8	92.1	80.6	72.9
72.5°	118.9	118.9	115.1	122.8	99.8	76.7	65.2	53.7	42.2	34.5	30.7
75°	72.9	76.7	80.6	84.4	65.2	49.9	42.2	26.9	15.3	7.7	7.7
77.5°	49.9	53.7	57.6	61.4	53.7	46.0	34.5	19.2	3.8	0.0	0.0
80°	38.4	42.2	49.9	53.7	57.6	61.4	46.0	19.2	3.8	0.0	0.0
82.5°	42.2	46.0	57.6	53.7	53.7	53.7	42.2	19.2	3.8	0.0	0.0
85°	7.7	11.5	19.2	19.2	26.9	34.5	26.9	7.7	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)