

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: P530547

Luminaire Tested: **GALN-SA5D-735-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530547
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-735-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 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: 21105 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

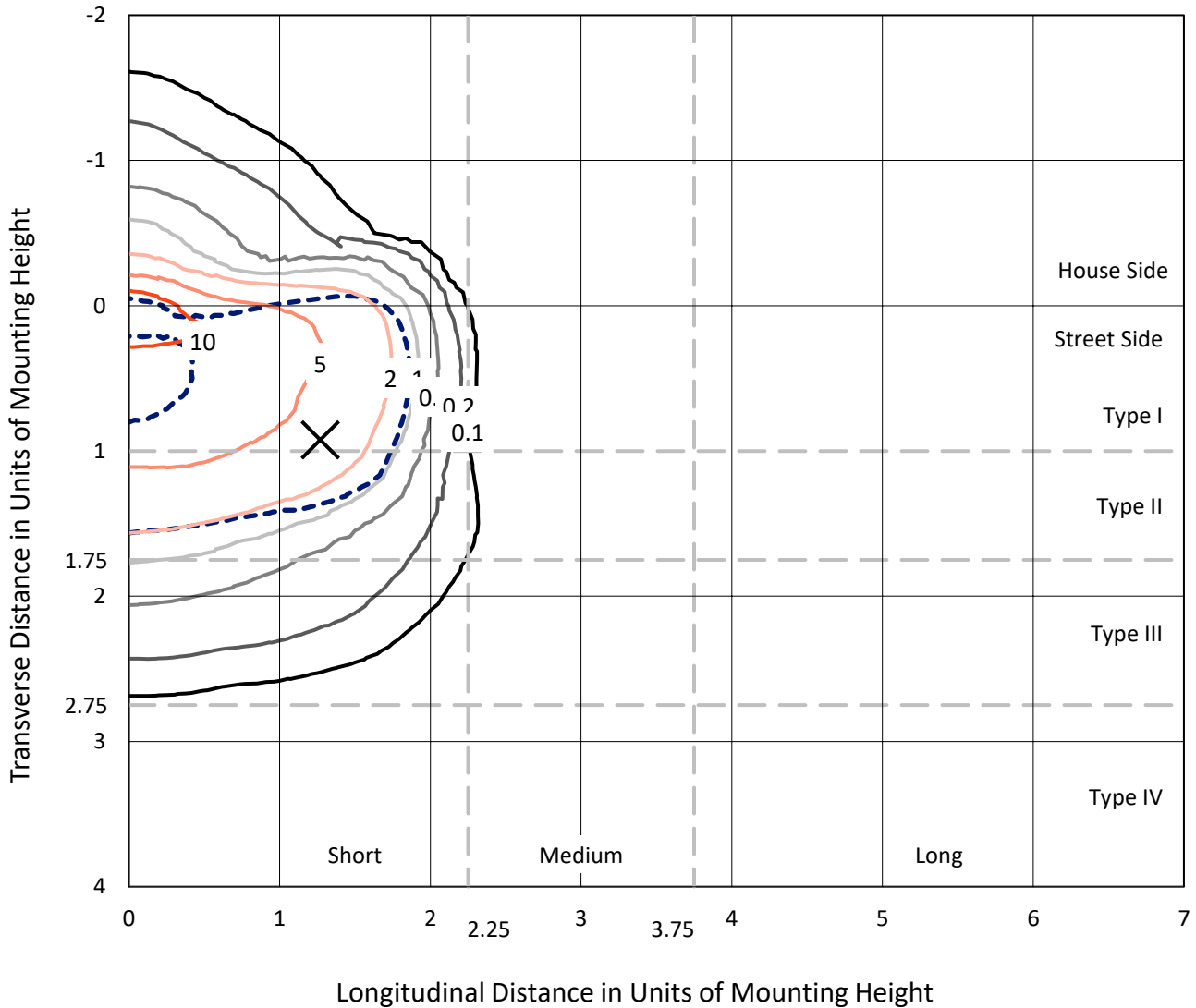
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

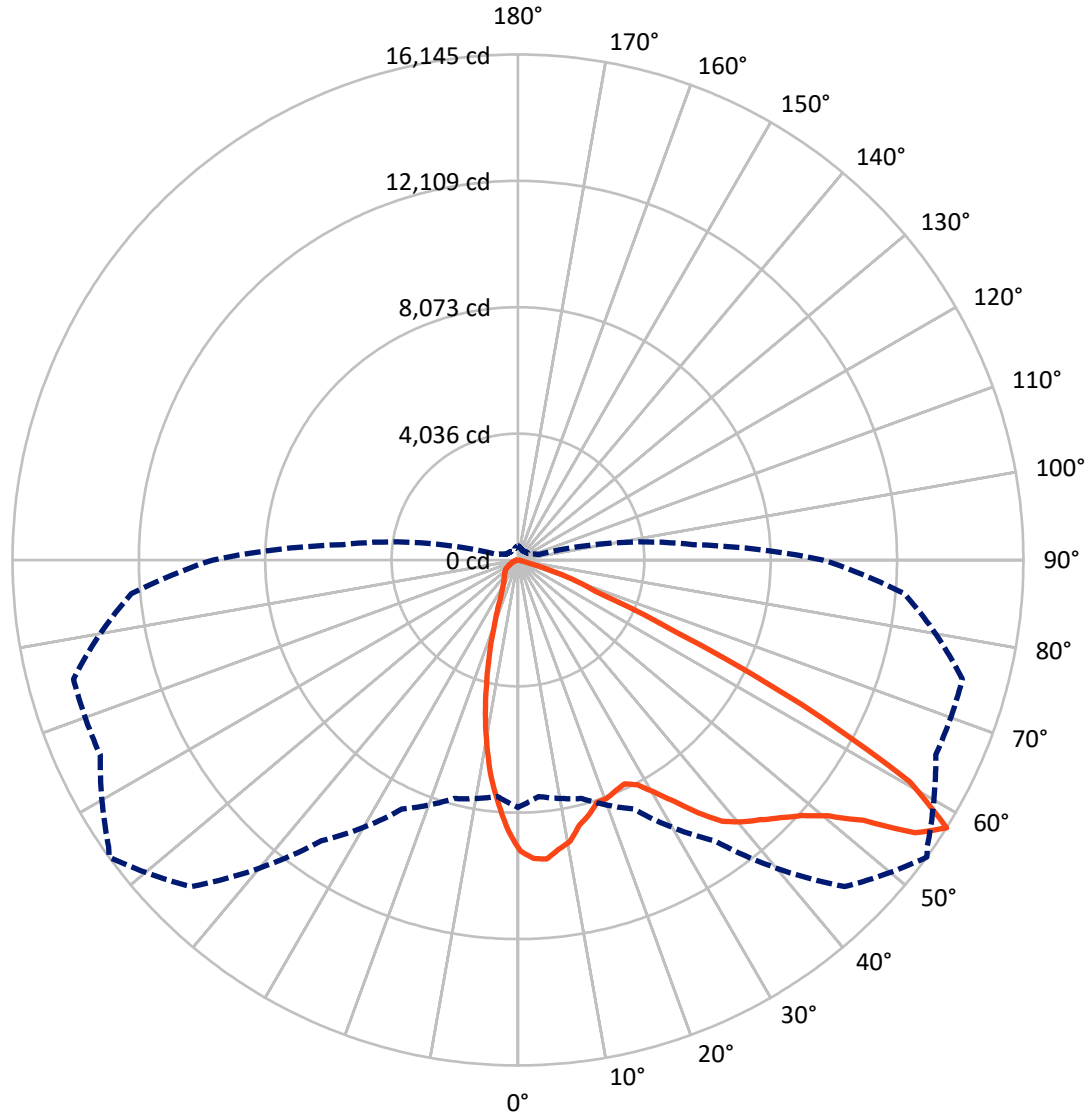
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 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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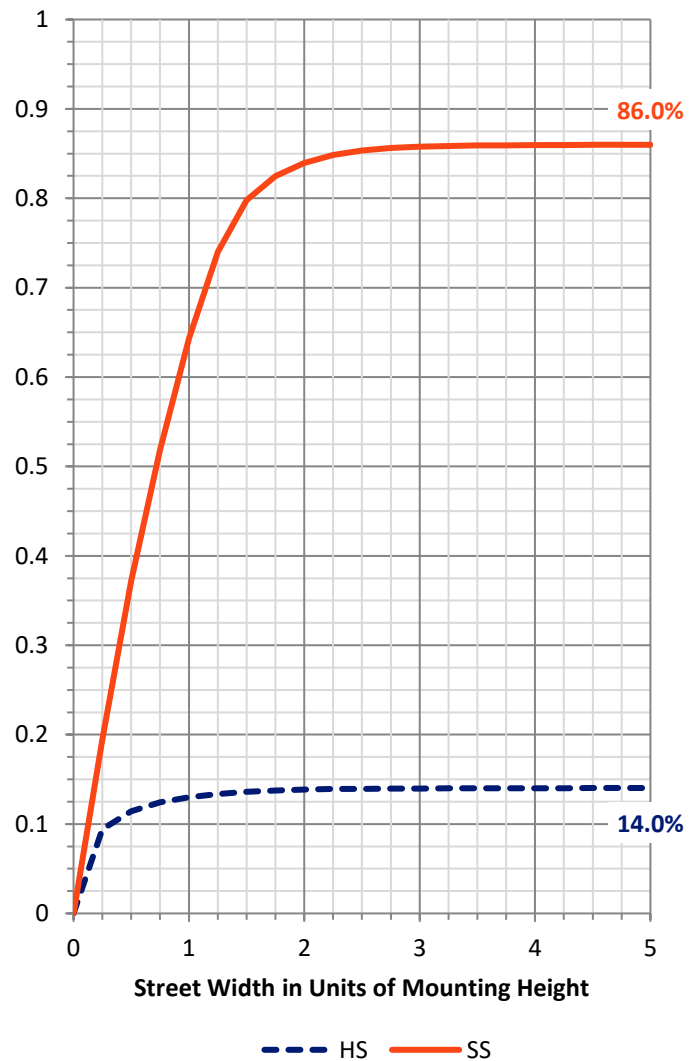
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2982.5	0.0	2982.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	18122.5	0.0	18122.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	21105.0	0.0	21105.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.0	3.7
10°-20°	1661.0	7.9
20°-30°	2201.2	10.4
30°-40°	3198.9	15.2
40°-50°	4743.5	22.5
50°-60°	5931.6	28.1
60°-70°	2339.7	11.1
70°-80°	233.0	1.1
80°-90°	18.1	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°	21105.0	100.0
0°-180°	21105.0	100.0



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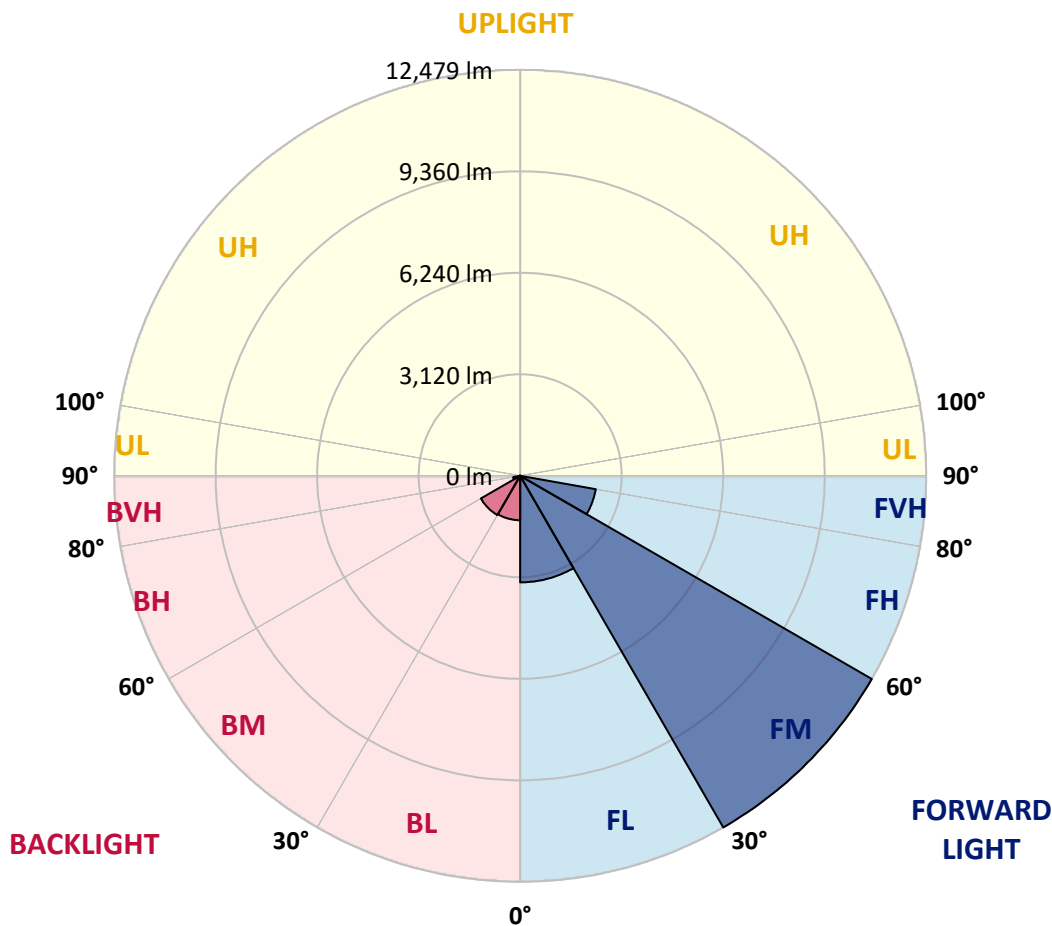
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3276.1	15.5			
FM (30°-60°)	12479.3	59.1			
FH (60°-80°)	2358.8	11.2			G2/5000
FVH (80°-90°)	8.2	0.0			G0/10
BL (0°-30°)	1364.0	6.5	B3/2500		
BM (30°-60°)	1394.7	6.6	B2/2500		
BH (60°-80°)	213.9	1.0	B1/500		G1/500
BVH (80°-90°)	9.9	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°	9297.0	9297.0	9297.0	9297.0	9297.0	9297.0	9297.0	9297.0	9297.0	9297.0	9297.0
2.5°	9838.6	9736.6	9744.4	9709.1	9662.0	9697.3	9544.3	9579.6	9575.7	9367.7	9230.3
5°	9591.4	9701.3	9587.4	9681.6	9591.4	9689.5	9595.3	9524.7	9410.8	9257.8	9002.7
7.5°	9171.5	9065.5	9096.9	9214.6	9234.2	9454.0	9336.3	9426.5	9379.5	9077.3	8728.0
10°	8327.7	8304.1	8461.1	8618.1	8810.4	9045.9	9136.1	9085.1	9049.8	8936.0	8469.0
12.5°	7680.2	7746.9	7743.0	8002.0	8327.7	8461.1	8696.6	8688.7	8885.0	8673.0	8225.7
15°	7064.0	7099.3	7264.2	7425.1	7786.1	8166.8	8457.2	8496.4	8731.9	8582.8	8037.3
17.5°	6687.3	6636.3	6765.8	6958.1	7327.0	7825.4	8147.2	8241.4	8563.2	8531.8	7821.4
20°	6314.4	6314.4	6420.4	6648.0	6985.5	7546.7	8119.7	8092.2	8563.2	8472.9	7589.9
22.5°	6188.9	6251.7	6279.1	6451.8	6852.1	7334.8	8002.0	8053.0	8629.9	8445.4	7487.9
25°	6361.5	6279.1	6287.0	6424.3	6801.1	7232.8	7915.6	8029.4	8751.5	8582.8	7405.4
27.5°	6389.0	6471.4	6495.0	6589.2	6840.3	7264.2	8131.5	8363.0	9053.7	8904.6	7429.0
30°	6628.4	6710.8	6706.9	6867.8	7040.5	7519.3	8614.2	8661.3	9677.7	9308.8	7574.2
32.5°	6918.8	7005.2	7032.6	7221.0	7358.4	7986.3	9202.8	9324.5	10278.2	9944.6	7954.9
35°	7279.9	7248.5	7374.1	7562.4	7856.8	8669.1	9921.0	10125.1	10925.7	10768.7	8347.3
37.5°	7731.2	7691.9	7813.6	8119.7	8520.0	9477.6	10584.3	10717.7	11396.6	11534.0	9073.3
40°	8049.1	8064.8	8433.7	8845.7	9269.6	10246.8	11004.2	11133.7	11726.3	12248.2	9622.8
42.5°	8578.9	8677.0	9120.4	9622.8	10066.2	10823.7	11345.6	11471.2	11879.3	12821.2	10364.5
45°	9348.1	9304.9	9795.4	10356.6	10847.2	11424.1	11749.8	11706.7	11969.6	13390.2	10831.5
47.5°	10337.0	10344.9	10670.6	11149.4	11659.6	11946.0	12201.1	12048.1	12158.0	13990.7	11455.5
50°	11012.0	11070.9	11333.8	11824.4	12079.5	12519.0	12844.7	12750.6	12715.2	14351.7	11847.9
52.5°	11184.7	11361.3	11502.6	12114.8	12711.3	13405.9	13821.9	14022.1	13394.2	14473.4	12346.3
55°	9881.8	10038.8	10537.2	11377.0	12950.7	14810.9	15383.9	15387.8	14281.1	15015.0	12695.6
57.5°	7899.9	7582.0	7888.2	8779.0	10949.2	14752.0	16145.2	15960.8	14724.6	14697.1	12393.4
60°	5462.8	5384.4	5404.0	5757.2	7578.1	11734.1	14387.1	14626.4	13559.0	12738.8	9811.1
62.5°	4328.7	4262.0	4175.6	4136.4	4705.4	7311.3	10148.6	10486.1	9481.5	8261.0	5816.0
65°	3390.7	3351.5	3363.3	3520.2	3516.3	4148.2	5549.2	5411.8	4332.6	3202.4	1828.8
67.5°	2288.0	2346.8	2393.9	2868.8	3112.1	2888.4	2680.4	2601.9	1408.9	592.6	404.2
70°	1287.2	1295.1	1346.1	1793.5	2362.5	2240.9	1848.4	1848.4	702.5	215.8	231.5
72.5°	702.5	678.9	631.8	773.1	1051.8	1067.5	824.1	718.2	208.0	141.3	129.5
75°	341.4	337.5	290.4	239.4	227.6	188.4	145.2	133.4	94.2	90.3	78.5
77.5°	70.6	66.7	35.3	35.3	39.2	43.2	54.9	54.9	66.7	66.7	54.9
80°	0.0	0.0	3.9	15.7	27.5	39.2	47.1	47.1	54.9	54.9	43.2
82.5°	0.0	0.0	3.9	11.8	23.5	35.3	43.2	47.1	54.9	58.9	47.1
85°	0.0	0.0	0.0	7.8	19.6	27.5	23.5	23.5	19.6	15.7	7.8
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°	9297.0	9297.0	9297.0	9297.0	9297.0	9297.0	9297.0	9297.0	9297.0	9297.0	9297.0
2.5°	9159.7	9151.8	8971.3	8869.3	8684.8	8523.9	8394.4	8300.2	8300.2	8241.4	8186.4
5°	8900.7	8834.0	8449.4	8202.1	7852.8	7593.8	7417.2	7279.9	7064.0	7122.9	6891.3
7.5°	8578.9	8410.1	7899.9	7523.2	7040.5	6671.6	6294.8	5961.2	5639.4	5494.2	5572.7
10°	8233.5	7939.2	7252.4	6655.9	6055.4	5380.4	4940.9	4407.2	4077.5	4057.9	3971.5
12.5°	7868.5	7535.0	6699.0	5874.9	5086.1	4273.7	3602.7	3104.2	2880.6	2633.3	2680.4
15°	7593.8	7099.3	6082.9	5090.0	4042.2	3222.0	2547.0	2162.4	1950.5	1891.6	1872.0
17.5°	7295.6	6765.8	5455.0	4254.1	3171.0	2319.4	1832.7	1648.3	1565.9	1565.9	1554.1
20°	6985.5	6389.0	4831.0	3477.1	2378.2	1730.7	1467.7	1408.9	1405.0	1401.0	1401.0
22.5°	6781.5	5957.3	4265.9	2762.8	1793.5	1385.3	1275.4	1251.9	1267.6	1314.7	1314.7
25°	6565.6	5541.3	3641.9	2131.0	1389.3	1189.1	1126.3	1142.0	1181.3	1224.4	1208.7
27.5°	6345.8	5270.5	3053.2	1671.8	1138.1	1040.0	1016.4	1051.8	1094.9	1134.2	1122.4
30°	6294.8	4980.1	2496.0	1267.6	977.2	906.5	922.2	953.6	996.8	1012.5	1028.2
32.5°	6373.3	4752.5	2044.6	1040.0	851.6	832.0	832.0	847.7	875.2	910.5	898.7
35°	6597.0	4623.0	1616.9	902.6	781.0	761.3	757.4	773.1	788.8	800.6	788.8
37.5°	6938.4	4521.0	1322.5	800.6	733.9	702.5	694.6	690.7	706.4	710.3	718.2
40°	7374.1	4575.9	1122.4	737.8	686.8	651.5	627.9	627.9	627.9	639.7	643.6
42.5°	7845.0	4650.5	969.3	702.5	643.6	600.4	576.9	569.0	576.9	592.6	588.7
45°	8339.5	4795.7	871.2	647.5	604.4	549.4	518.0	510.2	529.8	561.2	557.3
47.5°	8802.6	5003.7	796.7	612.2	565.1	514.1	474.9	467.0	502.3	545.5	549.4
50°	9265.6	5364.7	769.2	584.7	537.7	478.8	443.5	435.6	474.9	529.8	541.6
52.5°	9799.4	5753.3	749.6	549.4	506.3	451.3	412.1	404.2	447.4	518.0	522.0
55°	10148.6	6082.9	733.9	486.6	447.4	408.1	376.7	372.8	419.9	482.7	498.4
57.5°	9740.5	5623.7	678.9	423.8	380.7	361.0	333.6	333.6	372.8	431.7	443.5
60°	7385.8	3700.8	482.7	341.4	321.8	310.0	298.3	298.3	329.7	372.8	376.7
62.5°	4324.8	1993.6	310.0	274.7	274.7	262.9	243.3	243.3	274.7	298.3	302.2
65°	1283.3	639.7	251.2	235.5	231.5	211.9	192.3	188.4	211.9	223.7	219.8
67.5°	368.9	294.3	208.0	196.2	192.3	160.9	149.1	145.2	149.1	141.3	137.4
70°	219.8	200.1	160.9	164.8	145.2	117.7	106.0	102.0	94.2	82.4	74.6
72.5°	121.7	121.7	117.7	125.6	102.0	78.5	66.7	54.9	43.2	35.3	31.4
75°	74.6	78.5	82.4	86.3	66.7	51.0	43.2	27.5	15.7	7.8	7.8
77.5°	51.0	54.9	58.9	62.8	54.9	47.1	35.3	19.6	3.9	0.0	0.0
80°	39.2	43.2	51.0	54.9	58.9	62.8	47.1	19.6	3.9	0.0	0.0
82.5°	43.2	47.1	58.9	54.9	54.9	54.9	43.2	19.6	3.9	0.0	0.0
85°	7.8	11.8	19.6	19.6	27.5	35.3	27.5	7.8	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)