

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: P533769

Luminaire Tested: **GALN-SA9B-727-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533769
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
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-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25180 lumens
Efficiency: N/A
Efficacy: 69.2 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

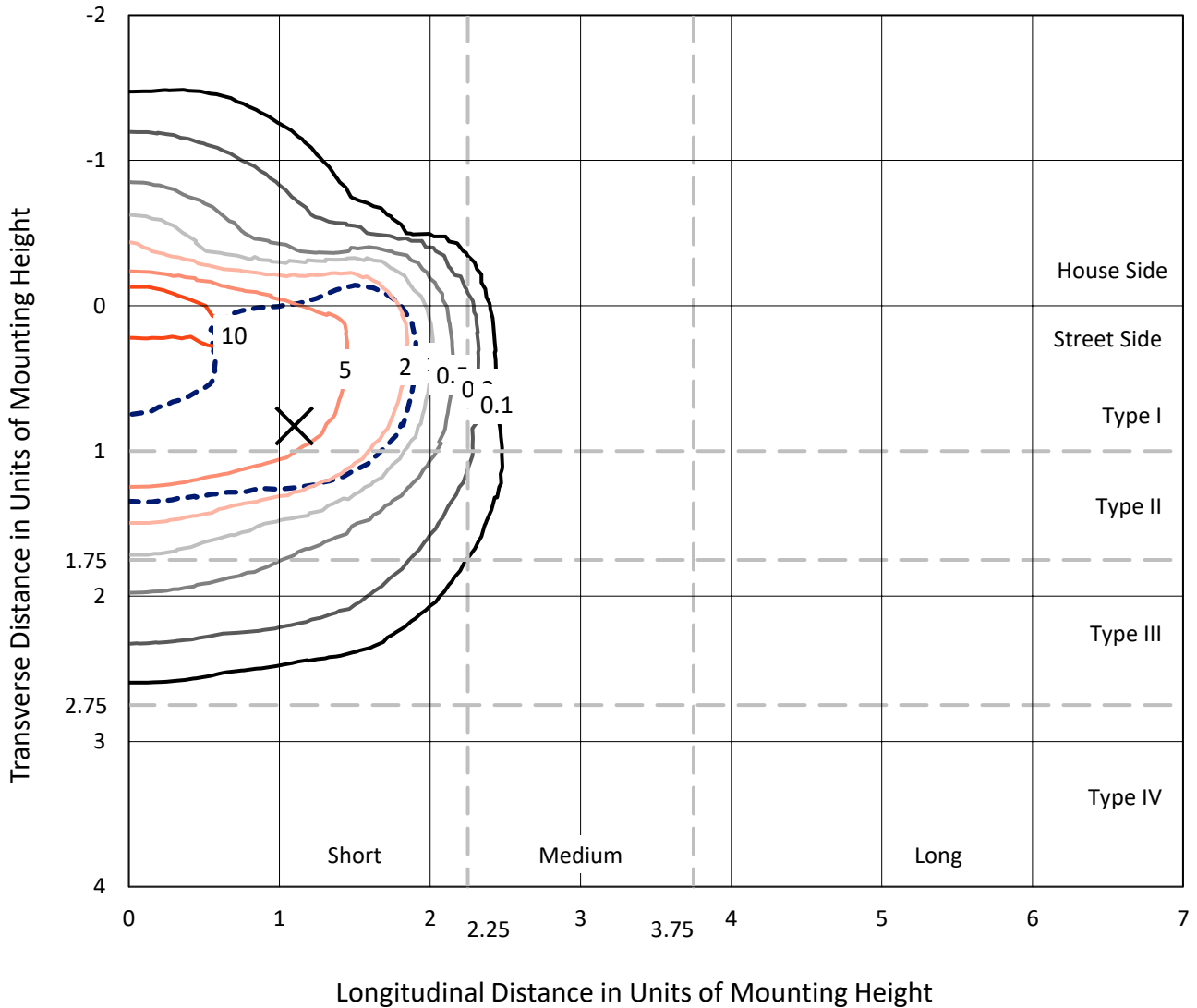
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

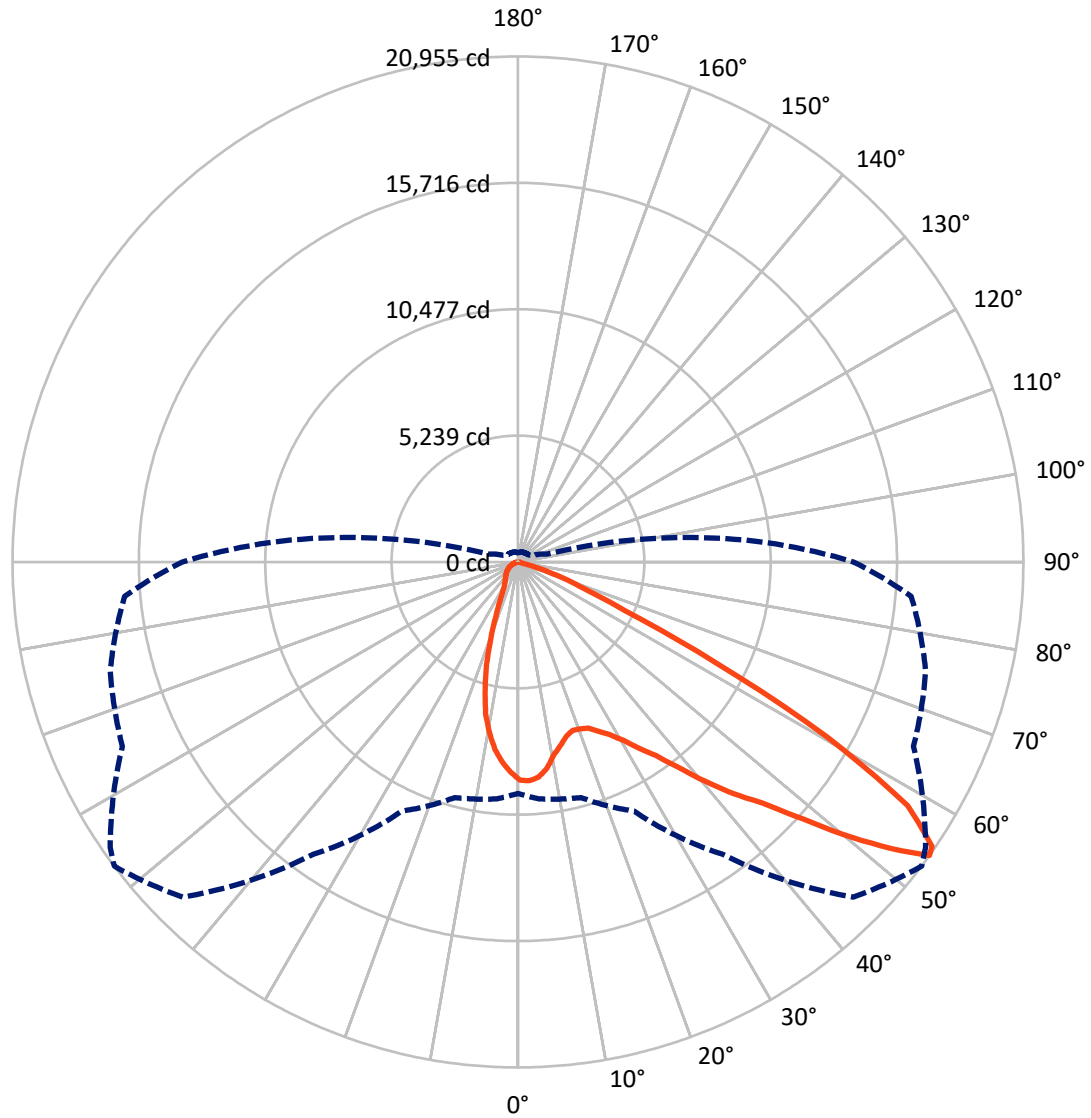
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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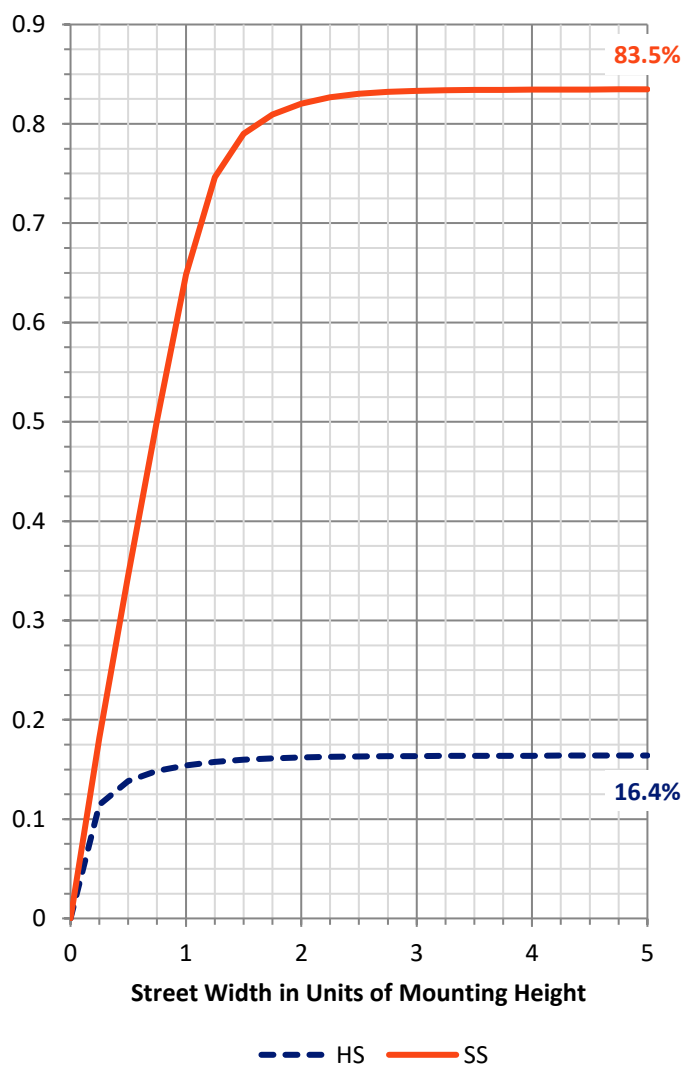
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4166.1	0.0	4166.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	21013.9	0.0	21013.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	25180.0	0.0	25180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	776.0	3.1
10°-20°	1779.1	7.1
20°-30°	2528.4	10.0
30°-40°	3902.0	15.5
40°-50°	6118.0	24.3
50°-60°	7106.9	28.2
60°-70°	2685.4	10.7
70°-80°	255.4	1.0
80°-90°	28.7	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°	25180.0	100.0
0°-180°	25180.0	100.0

Coefficient of Utilization



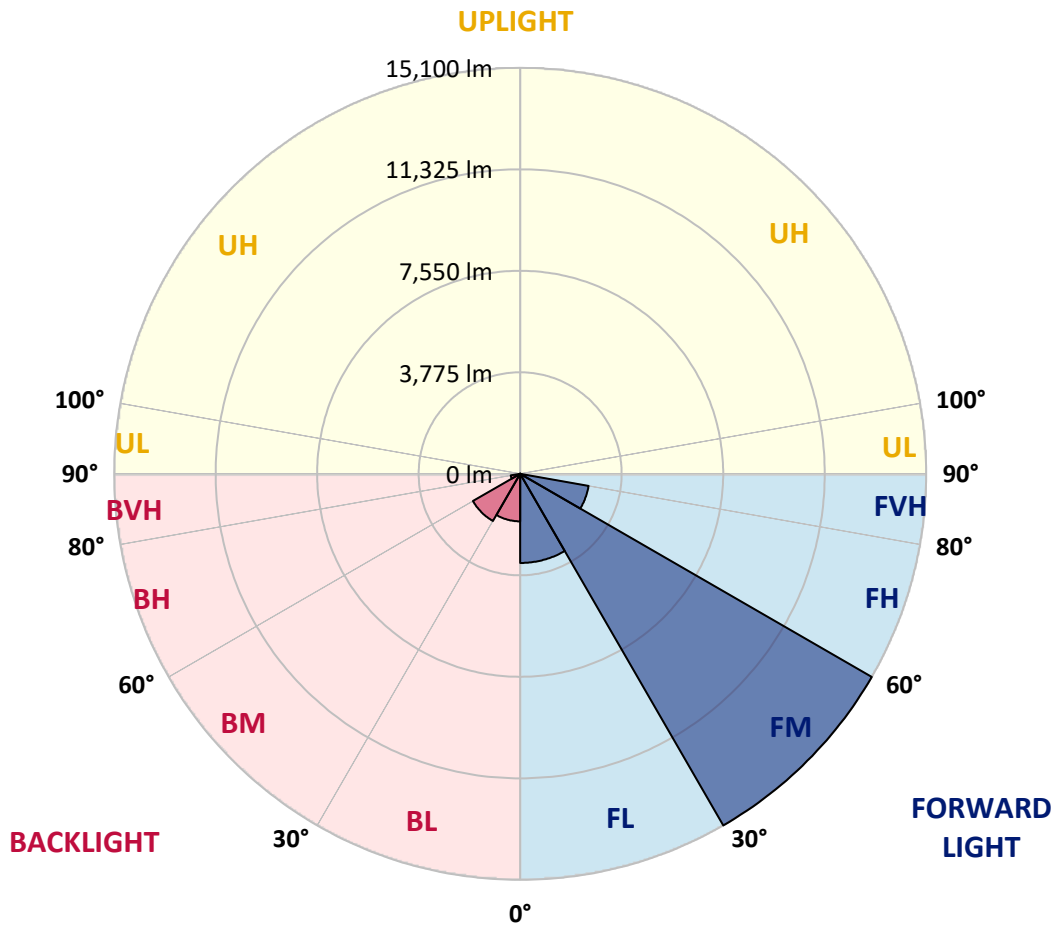
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3315.6	13.2			
FM (30°-60°)	15099.7	60.0			
FH (60°-80°)	2583.8	10.3			G2/5000
FVH (80°-90°)	14.8	0.1			G1/100
BL (0°-30°)	1767.9	7.0	B3/2500		
BM (30°-60°)	2027.3	8.1	B2/2500		
BH (60°-80°)	356.9	1.4	B1/500		G1/500
BVH (80°-90°)	13.9	0.1			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°	53°	55°	65°	75°	85°
0°	9044.2	9044.2	9044.2	9044.2	9044.2	9044.2	9044.2	9044.2	9044.2	9044.2	9044.2
2.5°	8997.3	8917.6	8997.3	9006.7	9063.0	9114.6	9081.8	9156.8	9114.6	9067.7	9053.6
5°	8270.2	8378.1	8382.8	8551.7	8514.1	8823.8	8959.8	8922.3	9152.1	9138.1	9105.2
7.5°	7618.2	7576.0	7632.2	7829.3	8077.9	8434.4	8631.4	8626.7	8955.1	9189.7	9166.2
10°	7013.0	7008.3	7125.6	7280.4	7491.5	7866.8	8138.9	8274.9	8786.2	9142.7	9194.3
12.5°	6604.9	6586.2	6712.8	6839.5	7172.5	7463.4	7810.5	7876.2	8462.5	8978.6	9063.0
15°	6337.5	6379.7	6389.1	6633.1	6844.2	7228.8	7500.9	7636.9	8312.4	8847.2	9170.9
17.5°	6290.6	6346.9	6351.6	6553.3	6778.5	7102.2	7341.4	7524.4	8185.8	8912.9	9175.6
20°	6384.4	6351.6	6379.7	6506.4	6726.9	7036.5	7383.6	7444.6	8143.6	8945.7	9227.2
22.5°	6651.8	6642.4	6572.1	6675.3	6830.1	7153.8	7482.1	7576.0	8265.5	9114.6	9269.4
25°	6947.4	6999.0	6933.3	6919.2	7027.1	7346.1	7782.4	7904.3	8673.6	9419.5	9400.7
27.5°	7500.9	7449.3	7449.3	7383.6	7355.5	7510.3	8106.0	8307.7	9128.7	9813.6	9550.9
30°	8031.0	8087.3	8045.1	8068.5	7880.9	7866.8	8565.8	8814.4	9935.5	10414.0	9869.8
32.5°	8870.7	8795.6	8866.0	8805.0	8556.4	8303.1	9189.7	9447.7	10911.2	11103.6	10348.3
35°	9569.6	9536.8	9837.0	9827.6	9424.2	9175.6	9851.1	10235.7	11591.4	11929.2	10911.2
37.5°	10564.1	10503.1	10845.6	11009.8	10648.6	10278.0	10798.7	11244.3	12224.7	12590.6	11488.2
40°	11586.7	11741.6	12201.3	12473.3	12088.7	11596.1	11957.3	12093.4	12646.9	13022.2	11882.3
42.5°	12881.5	13106.6	13575.7	13810.3	13777.4	13242.7	13134.8	13130.1	12951.8	12900.2	12173.1
45°	14124.6	14040.1	14762.5	15273.9	15686.7	15531.9	14270.0	14129.3	13435.0	13083.2	12248.2
47.5°	14668.7	14640.6	15133.1	16043.2	17450.5	17642.8	15921.2	15377.1	14251.2	13852.5	12656.3
50°	13965.1	14110.5	14598.4	15606.9	17764.8	19233.1	17947.7	17215.9	15203.5	14790.7	13622.6
52.5°	11666.5	11765.0	12229.4	13510.1	16695.2	20171.3	19889.8	19467.6	16953.2	16268.4	15306.7
54°	9593.1	9855.8	10109.1	11394.4	14790.7	19650.6	20954.7	20631.0	18093.2	17497.4	16366.9
55°	8354.7	8509.5	8692.4	9973.0	13472.5	18768.7	20832.7	20860.8	18857.8	17882.1	17079.9
57.5°	6103.0	6210.9	6023.2	6590.8	9250.6	15241.0	19054.8	19814.7	19889.8	18459.1	17516.2
60°	4662.8	4709.8	4498.7	4587.8	5751.2	10460.9	14739.1	15653.8	17943.0	16132.3	14837.6
62.5°	3616.8	3626.1	3621.4	3776.2	3963.9	6154.6	9217.8	10029.3	12370.1	11455.4	10076.2
65°	2664.5	2622.3	2697.3	3166.4	3382.2	3870.1	4855.2	5446.2	6722.2	5676.1	4057.7
67.5°	1726.3	1740.4	1815.4	2354.9	2899.0	2969.4	2988.2	2941.3	2945.9	1623.1	1017.9
70°	1036.7	1060.2	1036.7	1332.2	2073.4	2129.7	1946.8	1899.9	1482.4	384.7	380.0
72.5°	614.5	581.7	520.7	572.3	863.1	1032.0	928.8	924.1	581.7	225.2	225.2
75°	258.0	234.5	192.3	173.6	229.9	220.5	220.5	197.0	154.8	150.1	140.7
77.5°	51.6	51.6	37.5	42.2	56.3	65.7	79.7	79.7	93.8	93.8	89.1
80°	0.0	4.7	14.1	28.1	42.2	61.0	70.4	70.4	79.7	79.7	65.7
82.5°	0.0	4.7	14.1	28.1	37.5	56.3	70.4	70.4	79.7	84.4	70.4
85°	0.0	4.7	14.1	23.5	37.5	46.9	46.9	42.2	32.8	28.1	18.8
87.5°	0.0	0.0	4.7	9.4	4.7	9.4	9.4	9.4	9.4	9.4	9.4
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°	9044.2	9044.2	9044.2	9044.2	9044.2	9044.2	9044.2	9044.2	9044.2	9044.2	9044.2
2.5°	9086.5	9081.8	8969.2	8786.2	8744.0	8589.2	8570.4	8476.6	8528.2	8354.7	8335.9
5°	9011.4	8955.1	8819.1	8701.8	8359.3	8115.4	7923.1	7688.5	7552.5	7576.0	7486.8
7.5°	9119.3	8973.9	8734.6	8326.5	7909.0	7482.1	7252.3	6773.8	6600.2	6342.2	6304.7
10°	9006.7	8898.8	8528.2	7852.7	7275.7	6661.2	6121.7	5591.7	5188.2	5014.7	4977.1
12.5°	8997.3	8809.7	8190.5	7439.9	6604.9	5723.0	4939.6	4278.2	3879.4	3654.3	3602.7
15°	8851.9	8626.7	7810.5	6801.9	5648.0	4550.3	3696.5	3058.5	2753.6	2622.3	2659.8
17.5°	8866.0	8528.2	7430.5	6126.4	4705.1	3340.0	2523.8	2195.4	2115.6	2148.5	2148.5
20°	8851.9	8307.7	6970.8	5347.7	3602.7	2317.3	1852.9	1735.7	1787.3	1890.5	1867.0
22.5°	8776.8	8204.5	6548.6	4526.8	2650.4	1716.9	1487.0	1491.7	1571.5	1698.1	1726.3
25°	8833.1	7974.7	6013.9	3696.5	1932.7	1369.8	1290.0	1322.9	1407.3	1501.1	1519.9
27.5°	8790.9	7810.5	5455.6	2870.9	1412.0	1177.4	1172.7	1210.3	1247.8	1318.2	1318.2
30°	8837.8	7660.4	4906.8	2134.4	1163.4	1078.9	1060.2	1088.3	1125.8	1139.9	1135.2
32.5°	9011.4	7547.8	4273.5	1594.9	1027.3	985.1	985.1	985.1	980.4	999.2	1003.9
35°	9391.4	7566.6	3715.3	1233.7	938.2	905.4	891.3	872.5	863.1	872.5	877.2
37.5°	9804.2	7557.2	3138.3	1050.8	872.5	844.4	811.5	783.4	778.7	788.1	774.0
40°	9987.1	7646.3	2603.5	942.9	811.5	778.7	727.1	703.6	708.3	717.7	708.3
42.5°	10235.7	7674.5	2256.4	858.5	755.2	703.6	670.8	642.7	638.0	652.0	647.4
45°	10231.1	7515.0	1890.5	811.5	703.6	647.4	605.1	581.7	581.7	591.1	595.8
47.5°	10531.3	7491.5	1623.1	769.3	666.1	609.8	558.2	539.5	534.8	534.8	525.4
50°	11230.2	7819.9	1416.7	722.4	619.2	567.6	525.4	501.9	483.2	473.8	469.1
52.5°	12595.3	8842.5	1257.2	666.1	567.6	525.4	487.9	469.1	445.6	422.2	417.5
54°	13918.2	9898.0	1247.8	619.2	525.4	497.2	464.4	455.0	426.9	394.0	384.7
55°	14513.9	10512.5	1280.6	581.7	497.2	478.5	450.3	441.0	412.8	375.3	370.6
57.5°	15006.5	10751.8	1261.9	483.2	450.3	445.6	422.2	408.1	375.3	323.7	314.3
60°	12079.3	8129.5	905.4	426.9	412.8	403.4	384.7	375.3	333.1	276.8	272.1
62.5°	7632.2	4676.9	577.0	375.3	361.2	347.1	323.7	314.3	276.8	220.5	206.4
65°	3250.9	1937.4	389.4	333.1	309.6	286.2	267.4	253.3	220.5	164.2	159.5
67.5°	844.4	689.6	323.7	290.8	258.0	225.2	211.1	187.6	150.1	112.6	107.9
70°	380.0	347.1	272.1	243.9	206.4	173.6	154.8	131.3	98.5	75.1	70.4
72.5°	225.2	220.5	206.4	182.9	154.8	131.3	112.6	89.1	65.7	42.2	42.2
75°	140.7	136.0	140.7	126.7	107.9	98.5	84.4	61.0	37.5	18.8	18.8
77.5°	84.4	84.4	84.4	79.7	75.1	75.1	61.0	37.5	18.8	4.7	4.7
80°	65.7	65.7	70.4	65.7	65.7	65.7	51.6	28.1	9.4	0.0	0.0
82.5°	65.7	70.4	79.7	75.1	65.7	56.3	46.9	28.1	9.4	0.0	0.0
85°	18.8	14.1	23.5	32.8	46.9	42.2	32.8	23.5	9.4	0.0	0.0
87.5°	9.4	9.4	9.4	9.4	4.7	4.7	4.7	4.7	4.7	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)