

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: P534070

Luminaire Tested: **GALN-SA9C-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534070
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51828 lumens
Efficiency: N/A
Efficacy: 107.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

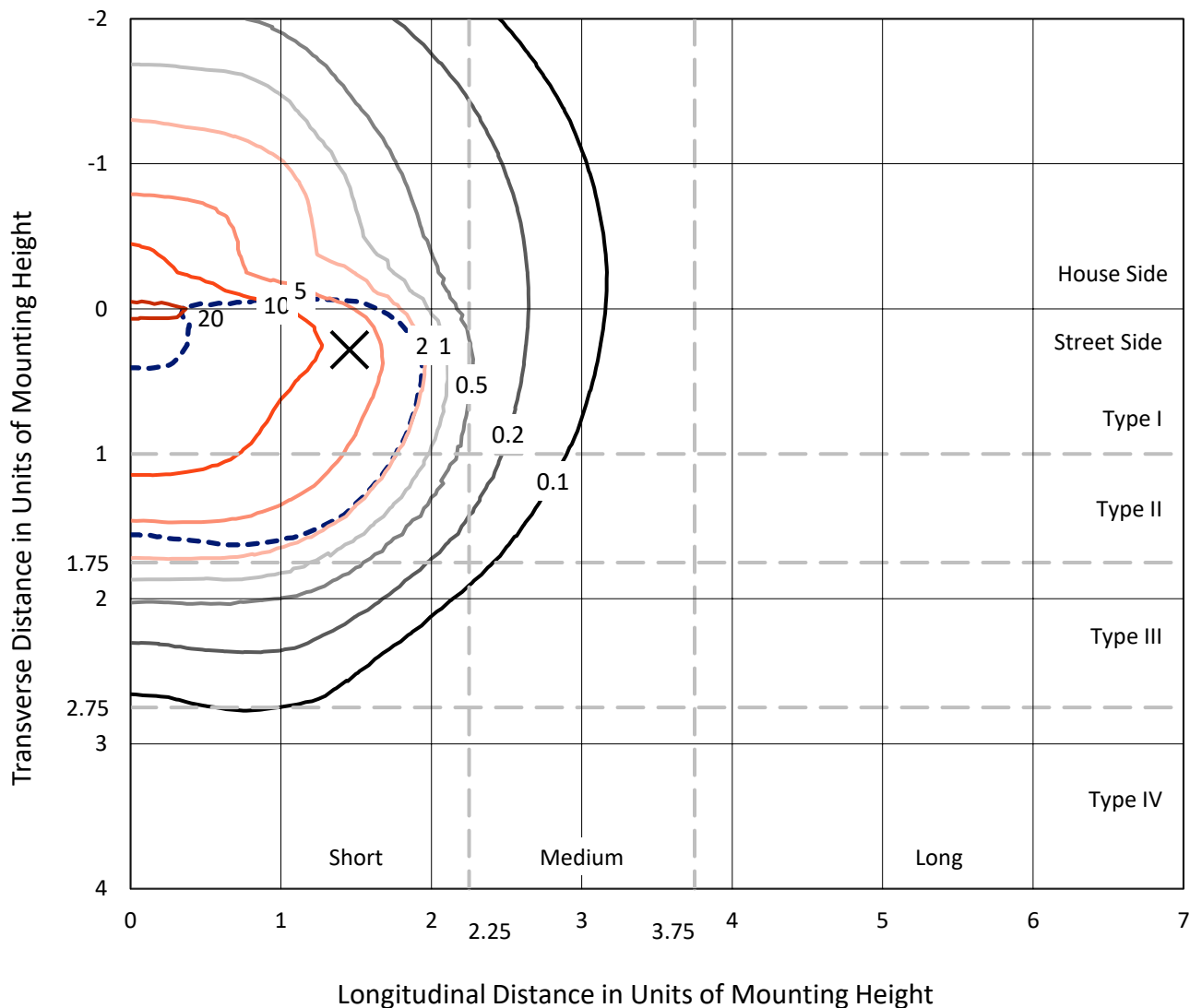
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

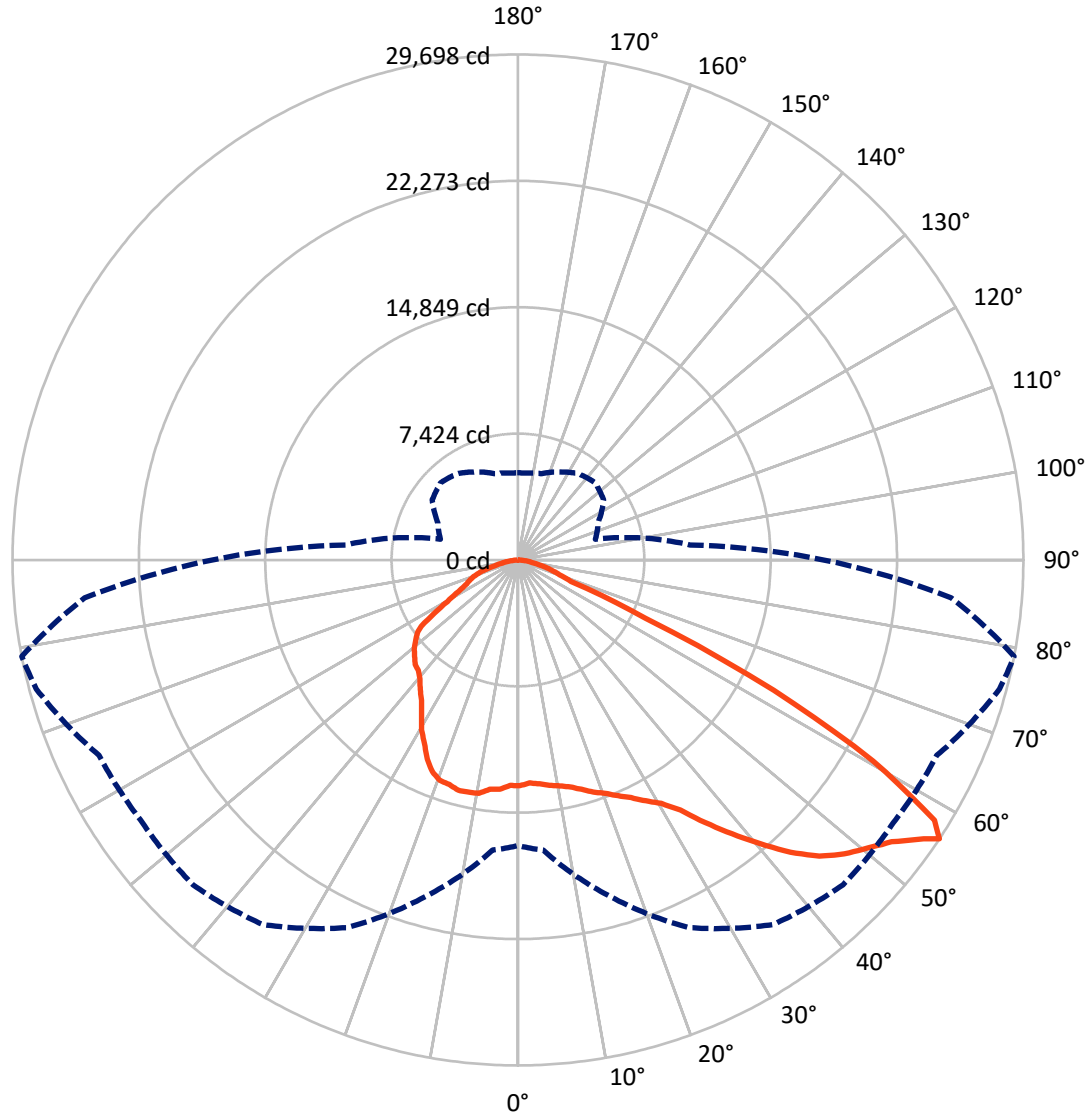
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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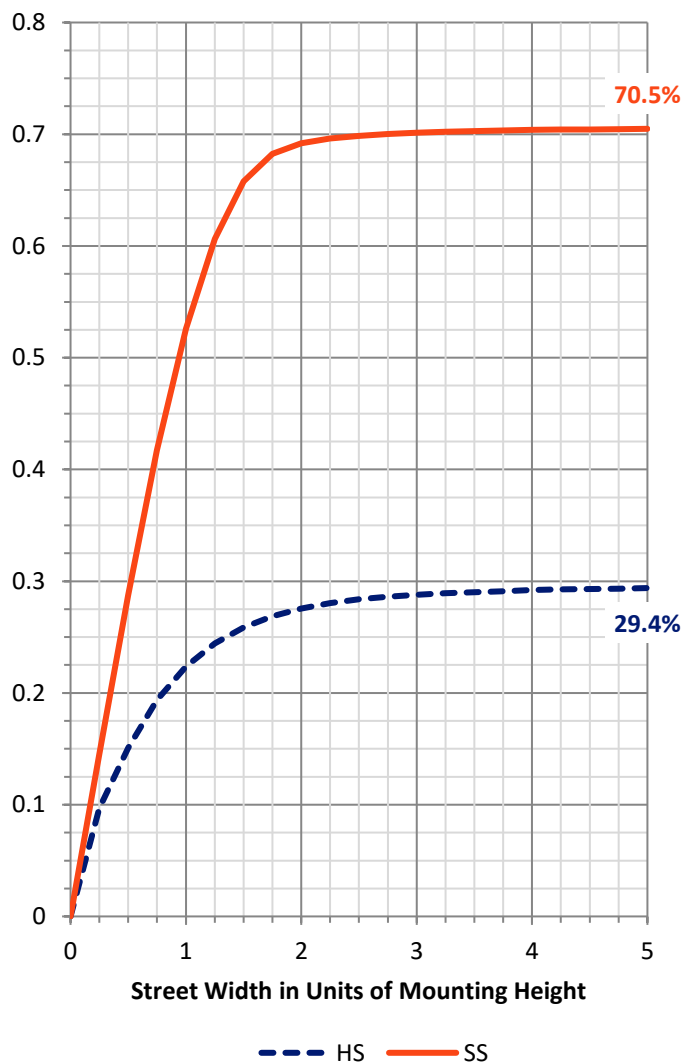
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15305.9	0.0	15305.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	36522.1	0.0	36522.1
	% Fixture	70.5	0.0	70.5
Total	Lumens	51828.0	0.0	51828.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1205.7	2.3
10°-20°	3299.5	6.4
20°-30°	5644.9	10.9
30°-40°	8651.5	16.7
40°-50°	11692.4	22.6
50°-60°	13429.1	25.9
60°-70°	6121.4	11.8
70°-80°	1509.2	2.9
80°-90°	274.3	0.5
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°	51828.0	100.0
0°-180°	51828.0	100.0

Coefficient of Utilization



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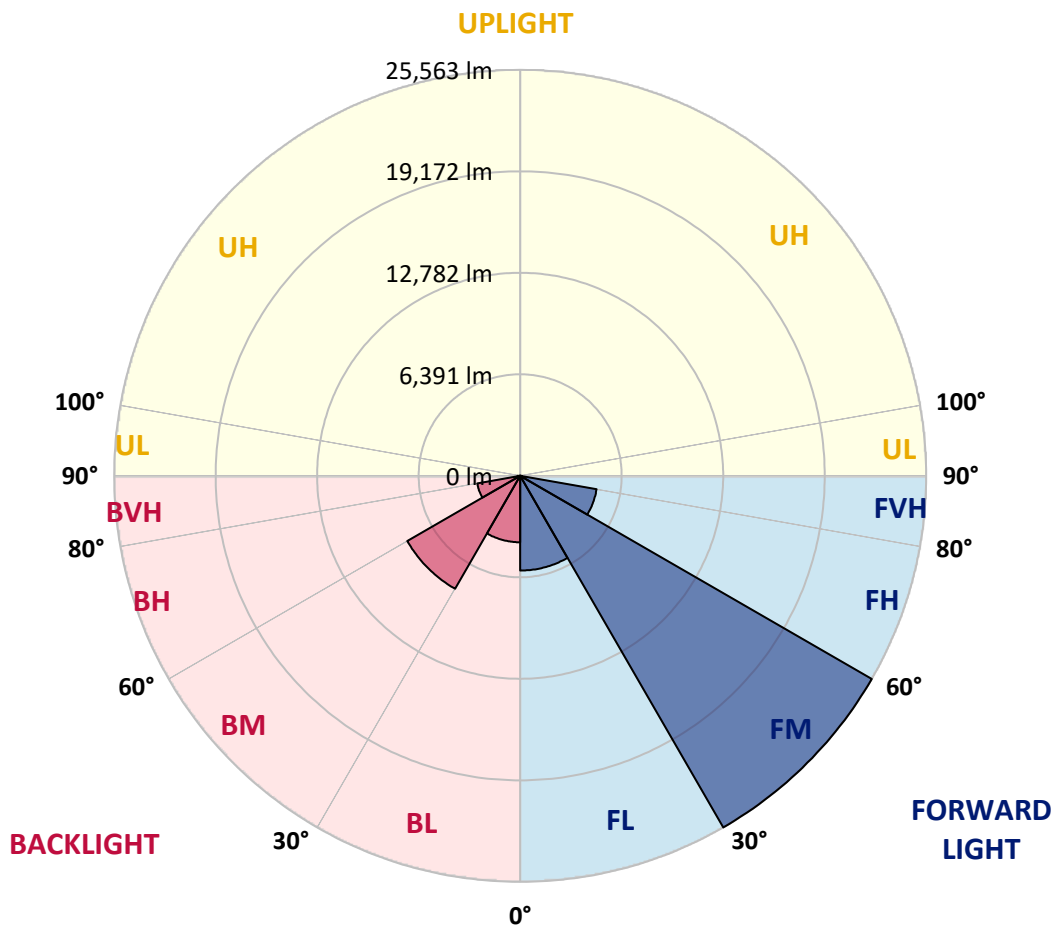
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5963.2	11.5			
FM (30°-60°)	25563.1	49.3			
FH (60°-80°)	4886.2	9.4			G2/5000
FVH (80°-90°)	109.5	0.2			G2/225
BL (0°-30°)	4186.8	8.1	B4/5000		
BM (30°-60°)	8209.9	15.8	B4/8500		
BH (60°-80°)	2744.4	5.3	B4/5000		G4/5000
BVH (80°-90°)	164.8	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	13260.7	13260.7	13260.7	13260.7	13260.7	13260.7	13260.7	13260.7	13260.7	13260.7	13260.7
2.5°	12615.1	12582.8	12660.3	12718.4	12789.4	12879.8	12925.0	12950.8	13176.8	13118.7	13293.0
5°	12344.0	12260.0	12318.1	12363.3	12486.0	12595.8	12718.4	12912.1	13118.7	13209.1	13422.1
7.5°	12105.1	12059.9	12047.0	12079.3	12247.1	12389.2	12602.2	12886.3	13222.0	13370.5	13493.2
10°	11711.3	11646.7	11743.6	11956.6	12001.8	12298.8	12544.1	12950.8	13241.4	13499.6	13861.1
12.5°	11537.0	11472.4	11491.8	11614.4	11930.8	12214.9	12505.4	12963.8	13577.1	13680.4	14164.6
15°	11814.6	11750.0	11769.4	11737.1	12040.5	12189.0	12647.4	13222.0	13809.5	13983.8	14500.3
17.5°	12447.3	12453.7	12369.8	12298.8	12227.8	12544.1	12860.5	13376.9	13899.9	14338.9	14726.3
20°	13654.6	13441.5	13273.6	12873.4	12763.6	12899.2	13299.5	13796.6	14267.9	14629.4	15068.4
22.5°	14584.2	14603.6	14364.7	13706.2	13467.3	13525.4	13867.6	14274.3	14790.8	15049.1	15552.6
25°	15933.5	15798.0	15539.7	15016.8	14480.9	14526.1	14777.9	15145.9	15287.9	15468.7	16017.5
27.5°	17166.6	17205.4	16695.4	16204.7	15539.7	15410.6	15862.5	15927.1	15688.2	16030.4	16217.6
30°	18419.1	18386.8	18051.1	17476.5	16824.5	16850.3	17050.4	16734.1	16404.8	16592.1	16721.2
32.5°	19716.8	19348.8	19335.9	18819.4	18322.3	18083.4	17838.1	17993.0	17483.0	17521.7	17399.1
35°	20756.2	20807.9	20510.9	20142.9	19897.6	19477.9	18806.5	19084.1	18987.3	18942.1	18412.7
37.5°	21511.6	21311.4	21459.9	21337.3	21104.8	20581.9	19884.6	20149.3	20194.5	20414.0	19800.7
40°	22131.3	22047.4	22441.2	22505.8	22344.4	21214.6	19962.1	20749.8	21427.6	21905.4	21175.9
42.5°	22428.3	22609.1	23022.3	23519.4	23157.9	21950.6	20362.4	21208.1	22718.9	23474.2	22480.0
45°	22828.6	22596.2	23209.5	24119.8	24126.3	22570.4	20749.8	21827.9	23726.0	24823.5	23370.9
47.5°	22421.9	22538.1	23170.8	24326.4	24623.4	23222.4	21795.6	22705.9	24836.4	25811.3	24197.3
50°	21511.6	21744.0	22899.6	24100.4	24997.8	23913.2	22996.5	23655.0	25862.9	26605.4	24332.9
52.5°	20562.5	20691.6	22499.3	24274.8	25165.7	24804.2	24604.0	24965.6	27115.4	27502.8	24500.7
55°	17980.1	18593.4	21175.9	24197.3	25985.6	26411.7	26256.8	26786.2	28535.8	28923.1	25417.5
56°	16785.7	17108.5	20381.8	23835.7	26147.0	26999.2	26921.7	27160.6	29291.1	29697.8	25559.5
57.5°	14577.8	14603.6	17379.7	22234.6	25540.1	27173.5	27096.1	27283.3	29142.6	28865.0	24313.5
60°	9122.4	9522.7	11827.5	17102.1	21718.2	25210.9	25649.9	24145.6	24571.7	23984.2	18916.2
62.5°	4725.8	4667.7	6197.8	10000.4	14416.4	18051.1	18457.9	18386.8	17728.3	16869.7	12356.9
65°	2356.5	2369.4	3240.9	4951.8	7385.7	9451.7	10587.9	10710.6	8961.0	8244.4	5862.1
67.5°	1710.9	1775.4	2330.6	3027.9	3479.8	3893.0	4771.0	4680.6	3544.4	3370.1	3124.7
70°	1329.9	1388.1	1891.6	2311.3	2098.2	2098.2	2285.4	2362.9	2524.3	2595.3	2679.3
72.5°	968.4	1013.6	1446.2	1594.6	1375.1	1478.4	1710.9	1891.6	2059.5	2085.3	2182.1
75°	665.0	703.7	949.0	878.0	826.4	1020.1	1252.5	1420.3	1543.0	1607.6	1665.7
77.5°	432.6	445.5	542.3	458.4	529.4	658.5	813.5	955.5	1078.2	1129.8	1142.7
80°	193.7	213.0	232.4	290.5	368.0	471.3	581.0	697.3	774.7	794.1	832.8
82.5°	109.8	109.8	142.0	206.6	271.2	342.2	419.6	503.6	594.0	613.3	606.9
85°	58.1	58.1	83.9	122.7	167.9	200.1	193.7	200.1	213.0	245.3	238.9
87.5°	19.4	19.4	25.8	25.8	32.3	38.7	32.3	45.2	58.1	58.1	58.1
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°	13260.7	13260.7	13260.7	13260.7	13260.7	13260.7	13260.7	13260.7	13260.7	13260.7	13260.7
2.5°	13241.4	13299.5	13222.0	13389.9	13389.9	13357.6	13196.2	13247.8	13286.6	13286.6	13318.8
5°	13493.2	13473.8	13525.4	13325.3	13202.6	13157.4	12892.7	12763.6	12653.9	12647.4	12550.6
7.5°	13635.2	13583.5	13564.2	13415.7	12873.4	12544.1	11976.0	11646.7	11575.7	11323.9	11420.8
10°	13861.1	13958.0	13861.1	13054.1	12298.8	11543.4	10988.2	10478.2	10278.0	10116.6	10019.8
12.5°	14326.0	14280.8	13719.1	12628.0	11569.2	10671.9	9845.5	9309.6	9109.5	8967.5	8954.5
15°	14719.8	14493.8	13635.2	11956.6	10433.0	9477.5	8799.6	8418.7	8328.3	8341.2	8399.3
17.5°	14855.4	14700.4	13196.2	11259.4	9587.2	8463.9	8147.5	8089.4	8173.4	8270.2	8296.0
20°	15068.4	14823.1	13015.4	10310.3	8541.4	7831.2	7811.8	8018.4	8173.4	8315.4	8334.8
22.5°	15513.9	14894.1	12427.9	9412.9	7824.7	7644.0	7831.2	8005.5	8244.4	8360.6	8257.3
25°	15643.0	14739.2	11601.5	8334.8	7372.8	7527.8	7727.9	7966.8	8134.6	8199.2	8244.4
27.5°	15752.8	14500.3	10484.6	7618.1	7230.8	7521.3	7727.9	7928.0	8018.4	8076.5	8128.2
30°	16062.7	14429.3	9516.2	7140.4	7140.4	7392.2	7656.9	7708.5	7831.2	7902.2	7992.6
32.5°	16217.6	13938.6	8522.0	6837.0	7050.0	7456.7	7476.1	7573.0	7579.4	7637.5	7540.7
35°	16624.3	13590.0	7598.8	6617.5	7088.7	7392.2	7489.0	7430.9	7114.6	6959.6	6991.9
37.5°	16921.3	13415.7	6933.8	6591.6	7095.2	7463.2	7514.8	7075.8	6746.6	6488.3	6552.9
40°	17721.9	12983.1	6430.2	6546.4	7153.3	7540.7	7398.6	6920.9	6326.9	6062.2	6017.0
42.5°	18335.2	12673.2	6113.9	6494.8	7198.5	7650.4	7340.5	6611.0	6004.1	5758.8	5823.4
45°	19045.4	12602.2	5946.0	6507.7	7276.0	7708.5	7269.5	6372.1	5726.5	5629.7	5610.3
47.5°	19297.1	12092.2	5765.3	6397.9	7256.6	7689.2	7030.6	6191.4	5623.2	5636.1	5687.8
50°	18877.5	11569.2	5629.7	6172.0	7127.5	7514.8	6656.2	5952.5	5565.1	5726.5	5816.9
52.5°	18341.6	11033.4	5352.1	5868.6	6862.8	7243.7	6481.9	5939.6	5507.0	5455.4	5474.7
55°	18503.0	10594.4	4964.7	5455.4	6436.7	6740.1	6288.2	5816.9	5365.0	5171.3	5235.9
56°	17980.1	10142.5	4712.9	5197.1	6146.2	6417.3	6191.4	5707.2	5248.8	5119.7	5119.7
57.5°	16501.7	8625.3	4383.7	4783.9	5532.8	5855.6	6004.1	5642.6	5119.7	4893.7	4900.1
60°	12169.7	6133.3	3931.7	4215.8	4583.8	4842.0	5532.8	5461.8	4796.8	4641.9	4583.8
62.5°	7501.9	4480.5	3608.9	3718.7	3905.9	4119.0	4829.1	4945.3	4454.7	4286.8	4248.1
65°	4202.9	3428.2	3363.6	3408.8	3499.2	3608.9	4009.2	4267.5	3931.7	3673.5	3660.6
67.5°	3073.1	3066.6	3118.3	3157.0	3195.7	3195.7	3292.6	3395.9	3350.7	3144.1	3124.7
70°	2730.9	2750.3	2789.0	2795.5	2808.4	2763.2	2685.7	2653.4	2705.1	2576.0	2550.1
72.5°	2253.2	2317.7	2362.9	2369.4	2298.4	2240.3	2137.0	2027.2	1988.5	1962.6	1956.2
75°	1730.2	1775.4	1794.8	1788.3	1762.5	1678.6	1555.9	1446.2	1375.1	1297.7	1336.4
77.5°	1168.5	1233.1	1265.4	1265.4	1226.7	1097.5	1039.4	955.5	884.5	800.6	813.5
80°	819.9	865.1	916.8	910.3	845.7	781.2	697.3	619.8	561.7	497.1	490.7
82.5°	613.3	639.1	665.0	652.1	606.9	542.3	484.2	413.2	348.6	303.4	303.4
85°	219.5	238.9	290.5	303.4	329.3	329.3	277.6	232.4	187.2	154.9	154.9
87.5°	64.6	64.6	71.0	71.0	64.6	71.0	58.1	64.6	71.0	45.2	45.2
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)