

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: P530320

Luminaire Tested: **GALN-SA5C-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-735-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27511 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

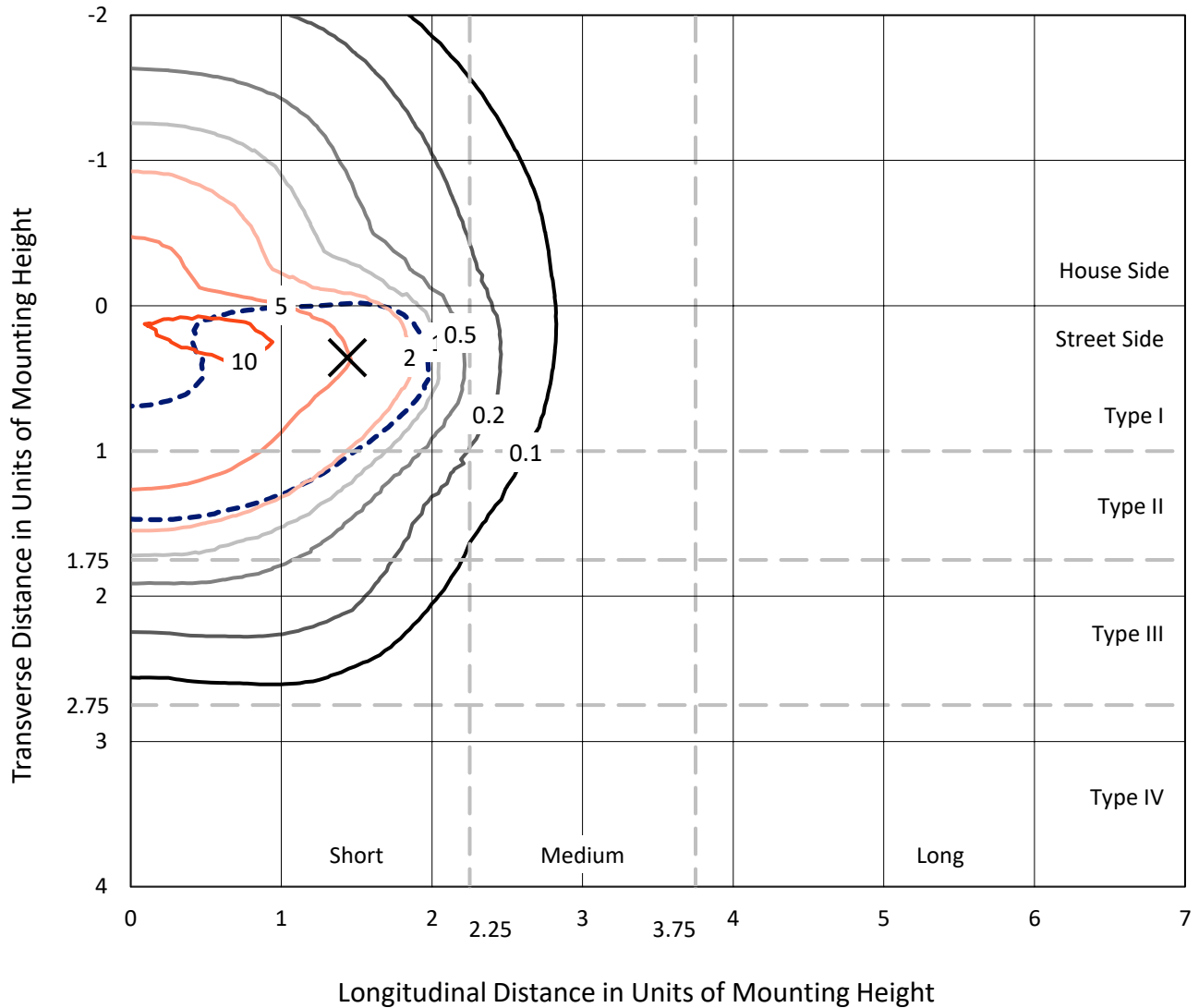
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

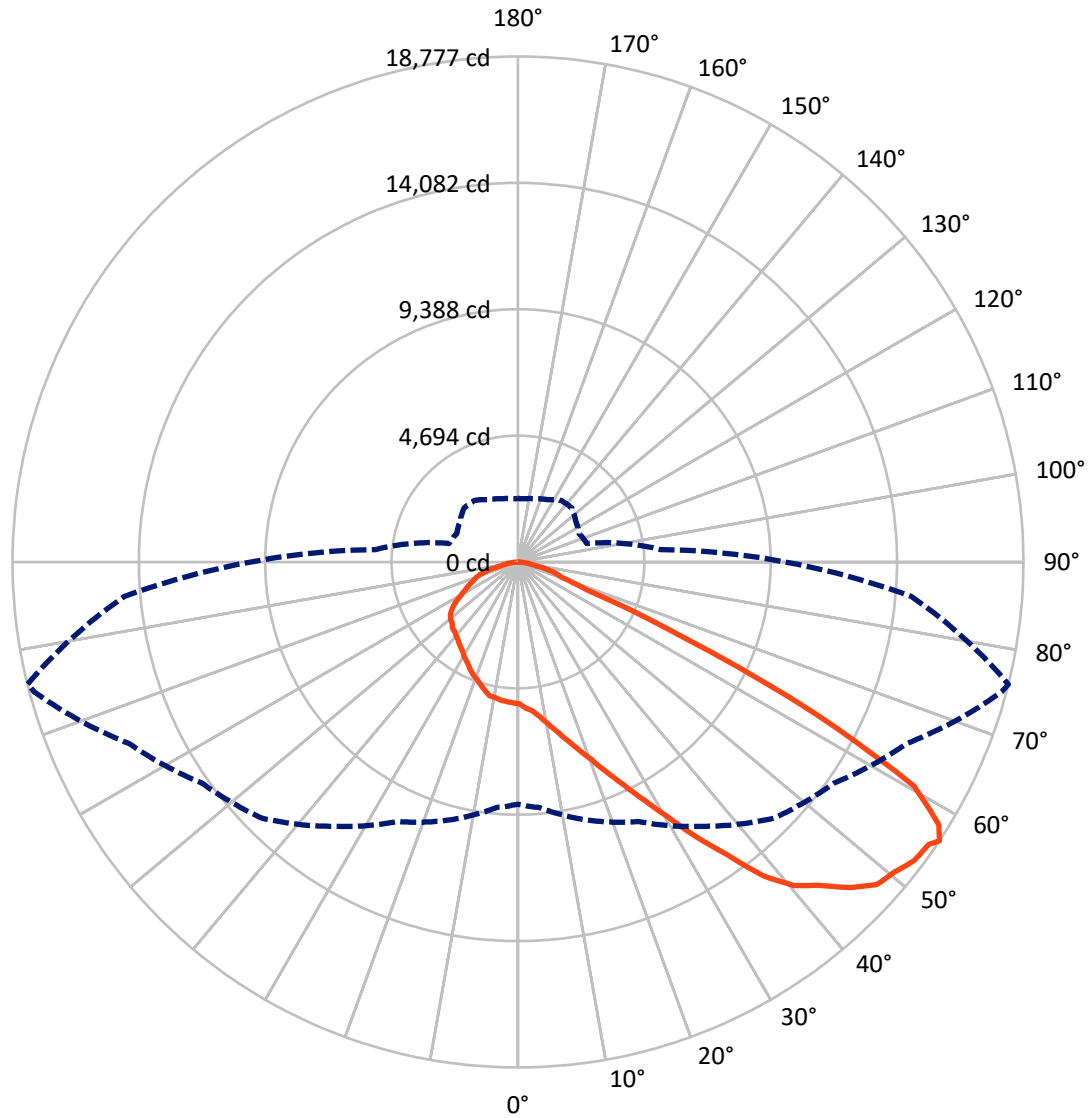
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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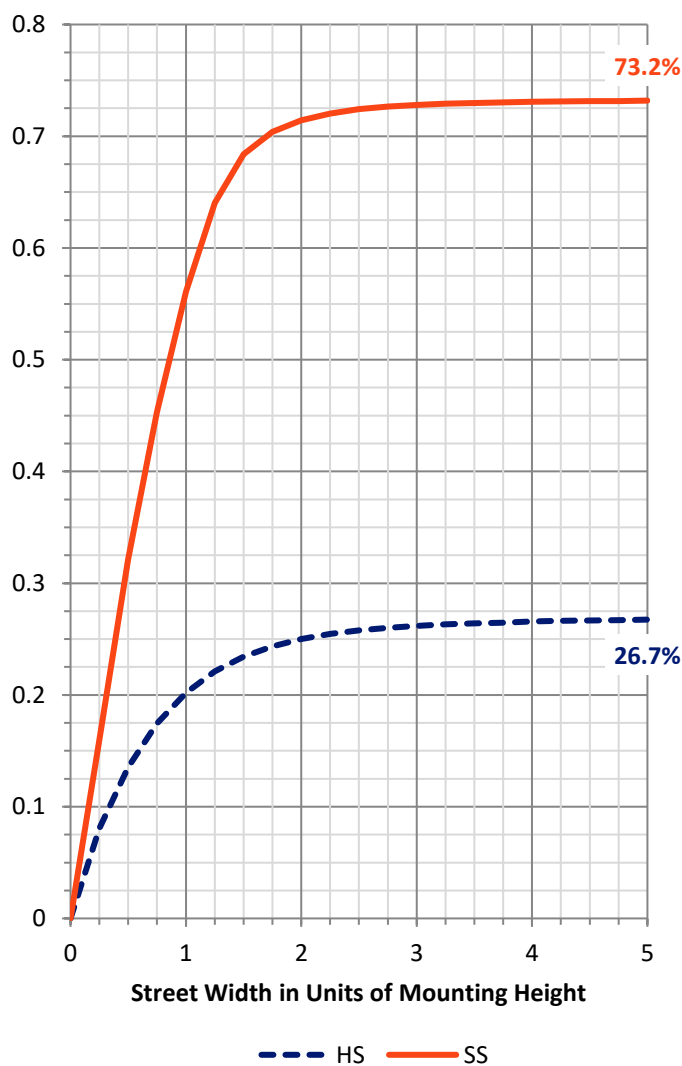
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7396.9	0.0	7396.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	20114.1	0.0	20114.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	27511.0	0.0	27511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.0	1.9
10°-20°	1639.8	6.0
20°-30°	2867.8	10.4
30°-40°	4490.2	16.3
40°-50°	6532.0	23.7
50°-60°	7179.0	26.1
60°-70°	3204.4	11.6
70°-80°	925.6	3.4
80°-90°	150.1	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°	27511.0	100.0
0°-180°	27511.0	100.0

Coefficient of Utilization



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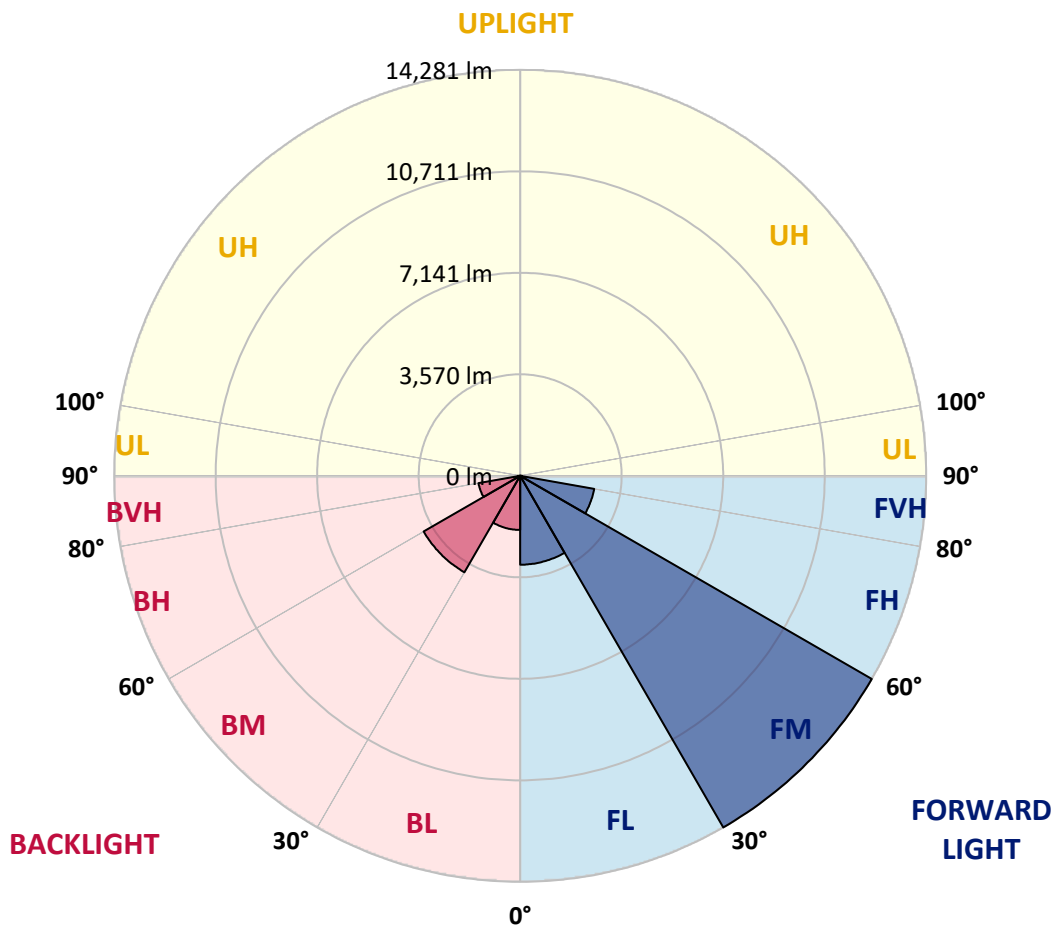
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3126.3	11.4			
FM (30°-60°)	14281.5	51.9			
FH (60°-80°)	2641.7	9.6			G2/5000
FVH (80°-90°)	64.6	0.2			G1/100
BL (0°-30°)	1903.4	6.9	B3/2500		
BM (30°-60°)	3919.8	14.2	B3/5000		
BH (60°-80°)	1488.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	85.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9
2.5°	5798.8	5706.1	5699.0	5674.0	5688.3	5624.1	5556.3	5467.2	5374.4	5431.5	5296.0
5°	6205.4	6080.6	6130.5	6044.9	6055.6	5970.0	5830.9	5727.5	5613.4	5545.6	5449.3
7.5°	6348.0	6358.7	6394.4	6380.1	6308.8	6308.8	6216.1	6034.2	5834.5	5795.3	5634.8
10°	6540.6	6544.2	6505.0	6515.7	6615.5	6569.1	6487.1	6408.7	6151.9	6105.5	5820.2
12.5°	6608.4	6544.2	6608.4	6665.4	6783.1	6847.3	6829.5	6772.4	6497.8	6465.7	6048.5
15°	6619.1	6579.8	6633.3	6761.7	6865.2	7136.2	7271.7	7232.5	6868.7	6872.3	6305.2
17.5°	6569.1	6622.6	6644.0	6754.6	6993.5	7246.7	7639.0	7692.5	7393.0	7346.6	6629.8
20°	6636.9	6597.7	6626.2	6726.1	7043.5	7439.3	7952.9	8305.9	7885.1	7853.0	6965.0
22.5°	6897.2	6843.8	6836.6	6900.8	7129.1	7539.2	8284.5	8919.3	8484.3	8502.1	7382.3
25°	7100.5	7129.1	7104.1	7100.5	7243.2	7689.0	8723.2	9650.4	9297.4	9194.0	7874.4
27.5°	7450.0	7517.8	7467.9	7535.6	7503.5	7913.6	9037.0	10460.0	10174.7	10035.6	8320.2
30°	7935.0	7970.7	7924.3	7924.3	7828.1	8227.5	9322.3	11305.2	11187.5	10998.5	8844.5
32.5°	8573.4	8626.9	8534.2	8480.7	8466.4	8694.7	9835.9	12139.7	12339.4	12179.0	9539.9
35°	9418.6	9386.5	9276.0	9226.0	9033.5	9411.5	10599.1	13099.1	13623.3	13338.0	10381.5
37.5°	10164.0	10114.1	10106.9	9828.8	9875.1	10185.4	11248.1	13826.6	14868.0	14785.9	11269.5
40°	10859.4	10905.8	10980.7	10823.8	10752.4	11094.8	12004.2	14382.9	15834.4	15802.3	11954.3
42.5°	11604.8	11562.0	11693.9	11562.0	11455.0	11940.0	12824.5	14768.1	16683.2	16419.3	12671.1
45°	12685.4	12549.9	12596.2	12606.9	12528.5	12706.8	13163.3	15046.3	17278.8	17250.3	13195.4
47.5°	13587.6	13591.2	13512.8	13452.1	13213.2	13391.5	13541.3	15221.0	17963.5	17917.2	13398.6
50°	13922.9	13876.5	14104.8	14236.7	14251.0	13887.2	13837.3	15317.3	18323.7	18120.4	13601.9
52.5°	12717.5	12760.3	13120.5	13905.1	14358.0	14397.2	14183.2	15517.0	18469.9	18427.1	13766.0
55°	10235.3	10442.2	11034.2	11940.0	13013.5	14193.9	14557.7	15723.9	18548.4	18512.7	14493.5
56°	8997.8	9158.3	9928.6	10638.3	11986.4	13455.7	14322.3	15945.0	18609.0	18776.6	14664.7
57.5°	7243.2	7428.6	7981.4	8787.4	10378.0	12050.6	13673.2	15673.9	18373.6	18437.8	14789.5
60°	4529.2	4547.0	5210.4	5741.8	6861.6	8495.0	10435.0	13637.6	17004.2	16911.5	13284.5
62.5°	2970.7	2974.3	3577.0	4012.1	4522.1	4896.5	6141.2	9044.2	12546.3	12382.2	9457.9
65°	2086.3	2132.7	2599.8	3181.2	3388.0	3191.8	3152.6	4768.2	7007.8	6772.4	5082.0
67.5°	1526.4	1529.9	1943.6	2567.7	2867.3	2428.7	1972.2	2328.8	2774.6	2767.5	2353.8
70°	1009.3	1052.1	1369.5	1918.7	2261.0	1950.8	1612.0	1665.5	1765.3	1765.3	1751.1
72.5°	588.4	627.7	838.1	1216.1	1269.6	1219.7	1276.7	1426.5	1490.7	1487.2	1469.3
75°	335.2	353.1	399.4	506.4	631.2	745.4	937.9	1080.6	1144.8	1184.0	1137.7
77.5°	196.1	206.8	235.4	288.9	328.1	403.0	510.0	609.8	695.4	684.7	691.9
80°	103.4	103.4	132.0	171.2	228.2	285.3	338.8	395.9	442.2	452.9	463.6
82.5°	60.6	64.2	85.6	124.8	164.1	203.3	260.3	299.6	342.4	345.9	353.1
85°	32.1	35.7	53.5	82.0	110.6	124.8	128.4	121.3	132.0	124.8	142.7
87.5°	10.7	10.7	17.8	14.3	14.3	17.8	21.4	21.4	28.5	28.5	28.5
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°	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9	5263.9
2.5°	5292.4	5292.4	5231.8	5117.7	5099.8	5053.5	5010.7	5007.1	4975.0	4946.5	4932.2
5°	5392.3	5281.7	5192.6	5089.1	4967.9	4910.8	4846.6	4775.3	4746.8	4775.3	4771.7
7.5°	5506.4	5413.7	5146.2	4953.6	4814.5	4757.5	4686.1	4611.2	4618.4	4618.4	4568.4
10°	5616.9	5492.1	5064.2	4818.1	4614.8	4572.0	4532.8	4561.3	4597.0	4604.1	4572.0
12.5°	5802.4	5520.7	5024.9	4682.6	4554.2	4461.5	4486.4	4564.9	4639.8	4618.4	4643.3
15°	5941.5	5545.6	4846.6	4543.5	4383.0	4425.8	4515.0	4568.4	4693.3	4679.0	4704.0
17.5°	6077.0	5559.9	4671.9	4358.0	4290.3	4408.0	4475.7	4629.1	4668.3	4753.9	4786.0
20°	6355.2	5588.4	4493.6	4243.9	4222.5	4358.0	4475.7	4547.0	4632.6	4707.5	4707.5
22.5°	6497.8	5574.1	4375.9	4094.1	4161.9	4247.5	4354.5	4475.7	4475.7	4547.0	4550.6
25°	6676.1	5517.1	4190.4	4022.8	4072.7	4154.8	4276.0	4233.2	4279.6	4279.6	4336.6
27.5°	6879.4	5395.8	4029.9	3894.4	3994.3	4083.4	4101.3	4072.7	4019.2	4012.1	3990.7
30°	7043.5	5246.0	3912.2	3851.6	3933.6	3983.6	3926.5	3865.9	3773.2	3766.0	3716.1
32.5°	7268.1	5060.6	3766.0	3744.6	3837.4	3840.9	3823.1	3730.4	3594.8	3537.8	3480.7
35°	7646.2	4953.6	3655.5	3687.6	3716.1	3705.4	3673.3	3573.4	3437.9	3413.0	3391.6
37.5°	7924.3	4875.1	3541.3	3580.6	3605.5	3619.8	3523.5	3413.0	3416.5	3366.6	3352.3
40°	8238.2	4825.2	3448.6	3466.5	3470.0	3516.4	3398.7	3345.2	3370.2	3338.1	3359.5
42.5°	8641.2	4839.5	3352.3	3338.1	3405.8	3388.0	3330.9	3259.6	3273.9	3177.6	3191.8
45°	8855.2	4935.8	3295.3	3231.1	3306.0	3302.4	3227.5	3159.8	3074.2	2888.7	2895.8
47.5°	8997.8	4960.7	3159.8	3117.0	3195.4	3241.8	3156.2	2999.3	2878.0	2746.1	2714.0
50°	9144.0	5007.1	3095.6	3006.4	3038.5	3149.1	3042.1	2892.3	2774.6	2656.9	2674.7
52.5°	9272.4	5096.3	2970.7	2838.8	2895.8	3017.1	2960.0	2778.2	2649.8	2553.5	2524.9
55°	9843.0	5296.0	2760.3	2589.1	2724.7	2878.0	2845.9	2624.8	2485.7	2435.8	2428.7
56°	9932.2	5303.1	2649.8	2503.6	2628.4	2831.7	2792.4	2557.0	2432.2	2353.8	2357.3
57.5°	9946.4	5217.5	2492.9	2425.1	2532.1	2763.9	2714.0	2503.6	2332.4	2261.0	2239.6
60°	8751.7	4072.7	2296.7	2253.9	2378.7	2557.0	2539.2	2357.3	2164.8	2082.7	2122.0
62.5°	5966.4	2985.0	2143.4	2136.2	2200.4	2375.2	2328.8	2164.8	2004.3	1950.8	1925.8
65°	3473.6	2264.6	1993.6	1965.0	2018.5	2111.3	2143.4	1972.2	1804.6	1768.9	1758.2
67.5°	2050.6	1872.3	1801.0	1754.6	1736.8	1793.9	1818.8	1719.0	1551.3	1501.4	1544.2
70°	1715.4	1665.5	1669.0	1590.6	1547.8	1508.6	1487.2	1398.0	1258.9	1194.7	1176.9
72.5°	1480.0	1458.6	1444.4	1373.0	1333.8	1244.6	1151.9	1062.8	959.3	905.8	909.4
75°	1130.5	1123.4	1130.5	1094.9	1027.1	955.8	870.2	756.1	677.6	609.8	624.1
77.5°	674.0	695.4	706.1	691.9	663.3	599.1	545.6	470.8	395.9	342.4	335.2
80°	463.6	481.5	499.3	481.5	452.9	406.6	349.5	292.4	238.9	210.4	203.3
82.5°	353.1	370.9	381.6	363.8	328.1	278.2	238.9	199.7	156.9	128.4	121.3
85°	128.4	146.2	142.7	171.2	185.4	178.3	153.4	117.7	89.2	64.2	60.6
87.5°	35.7	32.1	35.7	35.7	35.7	32.1	28.5	28.5	28.5	17.8	14.3
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)