

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: P530314

Luminaire Tested: **GALN-SA5C-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530314
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
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-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27747 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

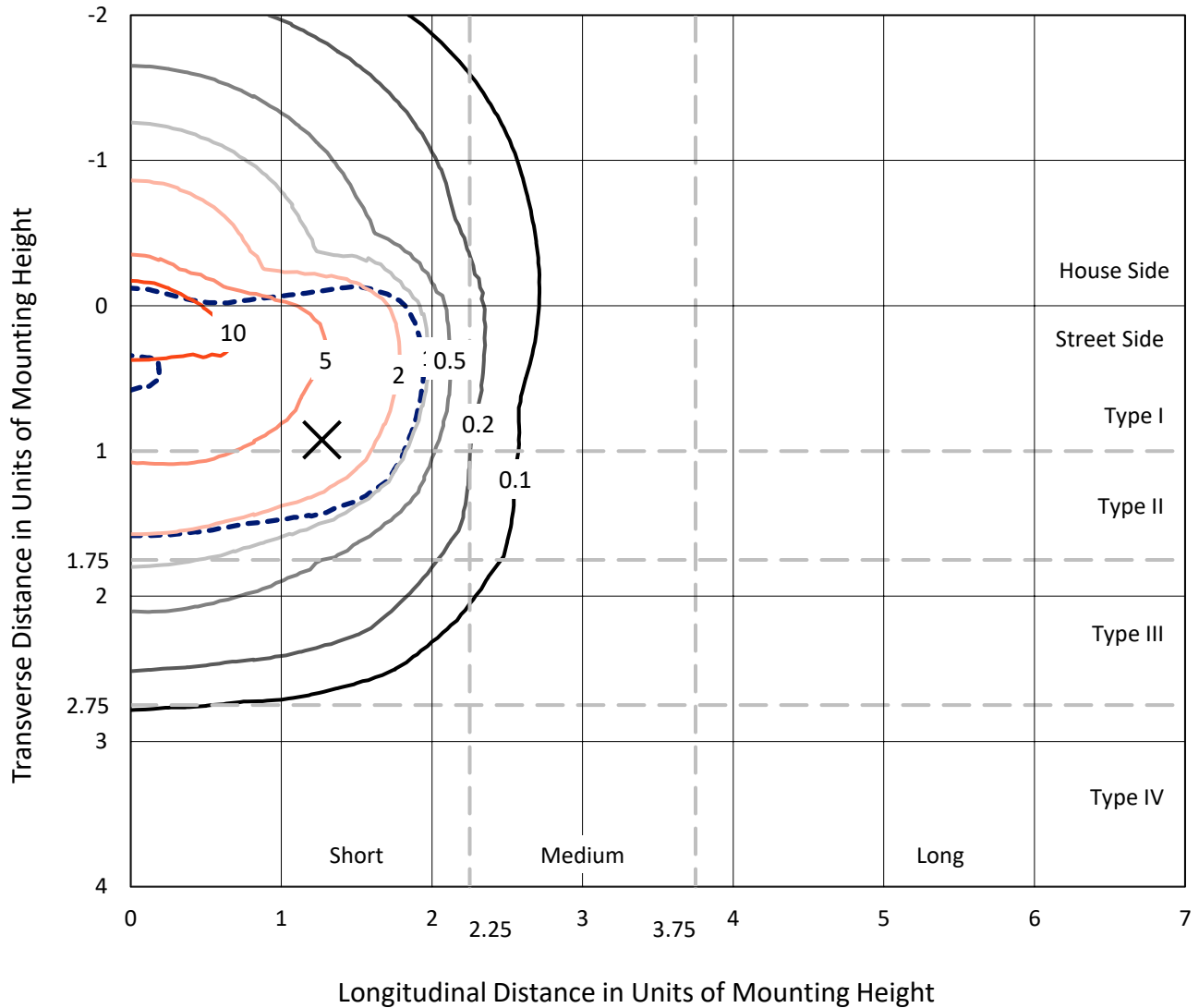
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

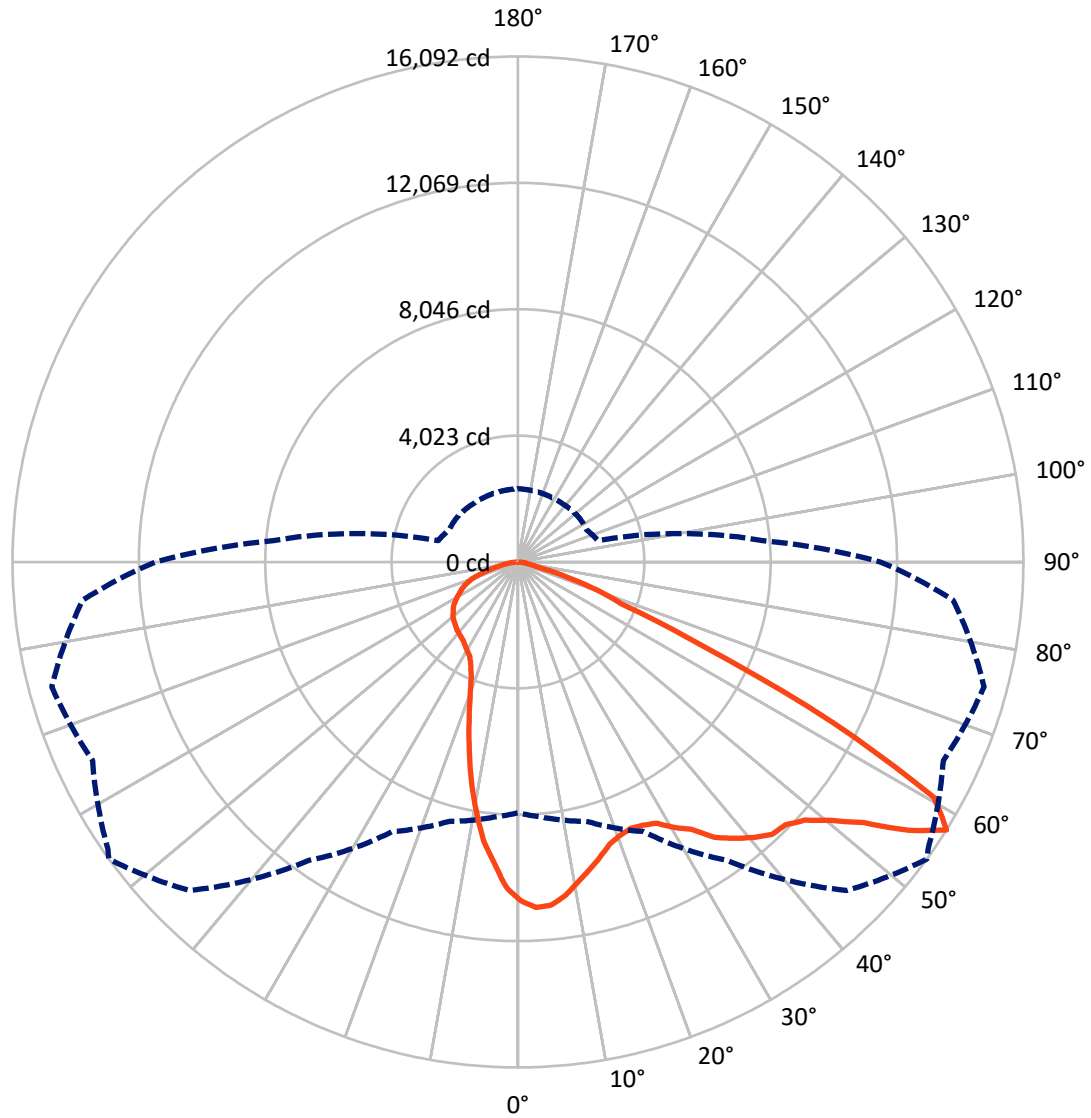
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.3 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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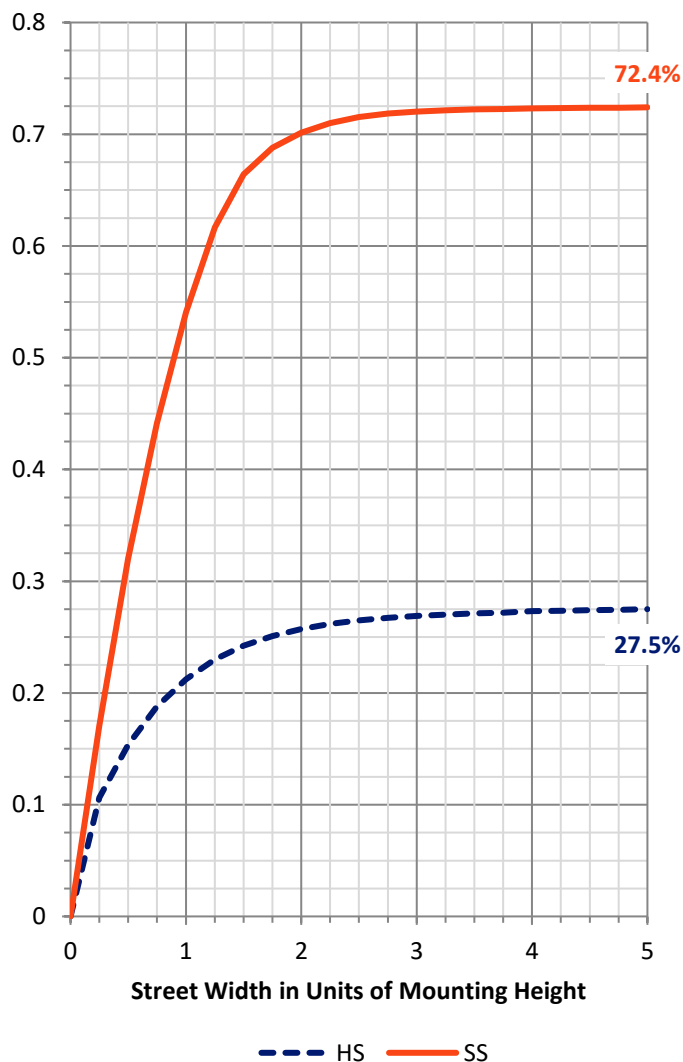
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7676.4	0.0	7676.4
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	20070.6	0.0	20070.6
	% Fixture	72.3	0.0	72.3
Total	Lumens	27747.0	0.0	27747.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	930.1	3.4
10°-20°	2153.5	7.8
20°-30°	3025.7	10.9
30°-40°	4230.0	15.2
40°-50°	5726.6	20.6
50°-60°	6975.2	25.1
60°-70°	3633.0	13.1
70°-80°	930.9	3.4
80°-90°	142.0	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°	27747.0	100.0
0°-180°	27747.0	100.0



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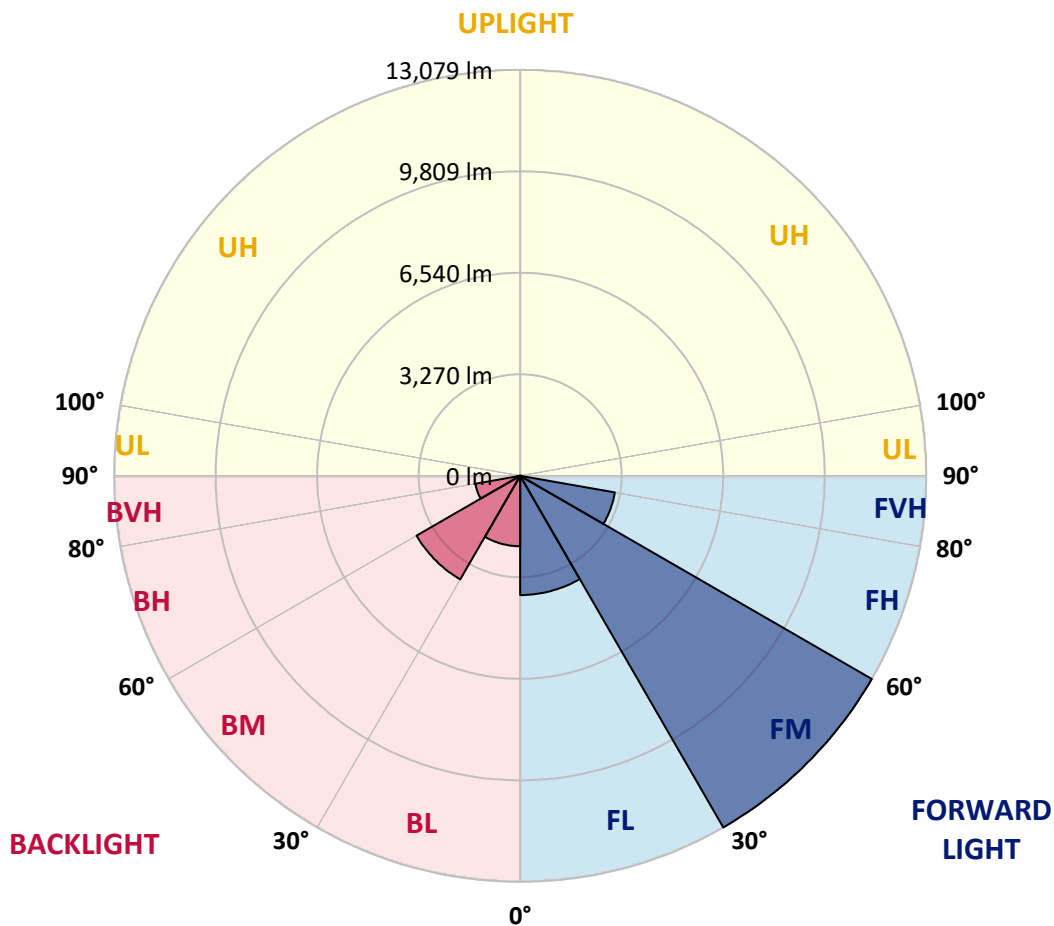
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3840.6	13.8			
FM (30°-60°)	13079.1	47.1			
FH (60°-80°)	3097.3	11.2			G2/5000
FVH (80°-90°)	53.7	0.2			G1/100
BL (0°-30°)	2268.8	8.2	B3/2500		
BM (30°-60°)	3852.7	13.9	B3/5000		
BH (60°-80°)	1466.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	88.3	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°	54°	55°	65°	75°	85°
0°	10784.9	10784.9	10784.9	10784.9	10784.9	10784.9	10784.9	10784.9	10784.9	10784.9	10784.9
2.5°	11091.7	11048.9	11056.0	11113.1	11041.7	11013.2	11013.2	10874.1	10884.8	10788.5	10763.5
5°	10834.9	10735.0	10802.8	10888.4	10902.6	10931.2	10977.5	10941.9	10842.0	10738.6	10571.0
7.5°	10164.4	10253.5	10278.5	10339.1	10467.5	10585.2	10731.4	10631.6	10628.0	10524.6	10424.7
10°	9575.9	9522.4	9657.9	9747.1	9961.1	10157.2	10381.9	10371.2	10424.7	10307.0	10135.8
12.5°	8991.0	8948.2	9012.4	9215.7	9515.3	9800.6	10068.1	9968.2	10253.5	10232.1	9864.8
15°	8370.5	8402.6	8495.3	8684.3	9076.6	9419.0	9757.8	9761.4	10014.6	10100.2	9608.0
17.5°	7935.3	7899.7	8017.4	8299.1	8648.6	9058.8	9444.0	9522.4	9911.2	9961.1	9529.6
20°	7610.8	7660.7	7814.1	7956.7	8359.8	8855.5	9290.6	9319.1	9889.8	10025.3	9404.7
22.5°	7532.3	7503.8	7553.7	7785.6	8117.2	8655.8	9208.6	9315.6	9886.2	10003.9	9169.3
25°	7450.3	7543.0	7539.5	7771.3	8013.8	8495.3	9276.3	9394.0	10075.2	10114.4	9201.4
27.5°	7635.8	7625.1	7724.9	7742.8	8042.3	8538.1	9419.0	9508.2	10389.1	10357.0	9226.4
30°	7821.2	7767.7	7828.4	8038.8	8177.9	8784.2	9811.3	9804.2	10795.6	10774.2	9304.9
32.5°	8049.5	8024.5	8063.7	8249.2	8484.6	9112.3	10143.0	10353.4	11209.3	11344.9	9575.9
35°	8092.3	8195.7	8288.4	8538.1	8873.3	9643.7	10767.1	10941.9	11687.3	12111.7	10093.1
37.5°	8363.3	8402.6	8620.1	9062.3	9369.1	10353.4	11163.0	11273.5	12122.4	12603.8	10638.7
40°	8652.2	8698.6	9026.7	9490.3	9911.2	10817.0	11533.9	11569.6	12261.5	12981.9	10995.4
42.5°	9044.5	9087.3	9411.9	9993.2	10556.7	11212.9	11862.0	11901.2	12250.8	13417.0	11562.4
45°	9451.1	9554.5	9936.1	10595.9	11102.4	11676.6	11936.9	12097.4	12350.6	13805.7	12022.5
47.5°	10021.7	10118.0	10431.9	11077.4	11669.4	12083.1	12282.8	12439.8	12589.6	14144.5	12318.5
50°	10628.0	10645.8	11027.5	11612.4	12047.5	12543.2	12928.4	12981.9	12903.4	14536.8	12821.4
52.5°	11073.8	11130.9	11426.9	11997.5	12646.6	13256.5	13784.3	13841.4	13688.0	14683.1	12992.6
55°	10335.6	10303.5	10784.9	11544.6	13049.6	14319.3	15086.1	15128.9	14258.7	15136.0	13552.5
57.5°	7988.8	8142.2	8552.3	9468.9	11594.5	14790.1	16091.8	15938.5	14943.4	15364.3	13909.2
60°	5806.2	5770.5	6045.1	6658.6	8737.8	12746.5	15214.5	15371.4	14383.5	13848.5	11469.7
62.5°	4729.1	4679.2	4700.6	4722.0	5638.6	8459.6	11262.8	11259.3	11077.4	9954.0	7735.6
65°	3780.4	3898.1	3908.8	4069.3	4187.0	5053.7	6526.6	6876.1	5988.1	4911.0	3562.9
67.5°	2849.6	2806.8	2949.5	3520.1	3741.2	3648.5	3562.9	3602.1	2560.7	1847.4	1740.4
70°	1679.8	1662.0	1833.2	2453.7	3081.4	2899.5	2685.5	2689.1	1758.3	1291.1	1437.3
72.5°	920.1	916.6	952.2	1244.7	1751.1	1818.9	1612.0	1662.0	1048.5	1045.0	1123.4
75°	513.6	502.9	492.2	549.2	631.3	666.9	681.2	688.3	720.4	806.0	838.1
77.5°	189.0	181.9	181.9	210.4	267.5	335.2	424.4	431.5	510.0	584.9	617.0
80°	64.2	71.3	96.3	132.0	178.3	239.0	288.9	296.0	360.2	410.1	420.8
82.5°	39.2	42.8	64.2	92.7	128.4	167.6	214.0	217.6	267.5	299.6	313.8
85°	17.8	21.4	35.7	57.1	82.0	110.6	114.1	114.1	110.6	114.1	107.0
87.5°	0.0	0.0	7.1	7.1	7.1	10.7	14.3	10.7	17.8	21.4	21.4
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°	10784.9	10784.9	10784.9	10784.9	10784.9	10784.9	10784.9	10784.9	10784.9	10784.9	10784.9
2.5°	10688.6	10649.4	10528.2	10421.2	10389.1	10246.4	10036.0	10061.0	9907.6	9978.9	9904.0
5°	10542.4	10410.5	10100.2	9968.2	9622.3	9465.4	9358.4	9090.9	8966.1	8941.1	8834.1
7.5°	10167.9	10085.9	9697.2	9340.5	8973.2	8659.3	8256.3	7981.7	7785.6	7732.1	7575.1
10°	9871.9	9690.0	9151.5	8609.4	8085.1	7539.5	7015.2	6605.1	6405.3	6173.5	6095.1
12.5°	9579.5	9304.9	8577.3	7881.9	7204.2	6515.9	5881.1	5381.8	4946.7	4843.2	4807.6
15°	9397.6	8919.7	8063.7	7225.6	6262.7	5363.9	4729.1	4401.0	4133.5	4023.0	4101.4
17.5°	9158.6	8602.3	7571.6	6455.3	5396.0	4568.6	4037.2	3833.9	3737.6	3748.3	3716.2
20°	8859.1	8302.7	6926.0	5756.2	4622.1	3962.3	3659.2	3584.3	3598.5	3623.5	3612.8
22.5°	8645.1	7938.9	6458.8	5043.0	3994.4	3627.1	3502.3	3448.8	3495.1	3516.5	3498.7
25°	8481.0	7628.6	5891.8	4411.7	3630.6	3438.1	3381.0	3377.4	3448.8	3477.3	3459.5
27.5°	8331.2	7339.8	5328.3	3930.2	3388.1	3291.8	3274.0	3316.8	3363.2	3391.7	3416.7
30°	8242.1	7118.6	4800.4	3527.2	3266.9	3220.5	3188.4	3227.6	3252.6	3281.1	3266.9
32.5°	8327.7	6961.7	4290.4	3299.0	3167.0	3120.6	3163.4	3138.5	3181.3	3206.2	3167.0
35°	8595.1	6822.6	3926.7	3177.7	3052.9	3070.7	3077.8	3067.1	3085.0	3063.6	3109.9
37.5°	8859.1	6772.7	3591.4	3074.3	2999.4	2999.4	2992.3	2970.9	3006.5	2999.4	3020.8
40°	9194.3	6804.8	3306.1	2963.7	2949.5	2942.3	2913.8	2910.2	2896.0	2899.5	2906.7
42.5°	9486.8	6876.1	3142.0	2892.4	2903.1	2917.4	2863.9	2821.1	2838.9	2803.2	2803.2
45°	9797.0	6940.3	2995.8	2842.5	2831.8	2828.2	2785.4	2760.4	2746.2	2749.7	2781.8
47.5°	10285.6	7033.0	2885.3	2774.7	2781.8	2728.3	2717.6	2685.5	2699.8	2721.2	2724.8
50°	10631.6	7229.2	2799.7	2696.2	2721.2	2685.5	2621.3	2607.1	2607.1	2642.7	2635.6
52.5°	10874.1	7503.8	2717.6	2610.6	2621.3	2592.8	2571.4	2539.3	2517.9	2567.8	2592.8
55°	11615.9	7960.3	2696.2	2539.3	2535.7	2507.2	2468.0	2435.9	2425.2	2432.3	2482.2
57.5°	11544.6	7817.7	2628.5	2414.5	2407.4	2368.1	2328.9	2318.2	2314.6	2321.8	2336.0
60°	9372.6	5774.1	2346.7	2271.8	2261.1	2254.0	2214.8	2172.0	2150.6	2172.0	2154.1
62.5°	6202.1	3866.0	2068.5	2100.6	2107.8	2089.9	2025.7	1982.9	1990.1	2015.0	1975.8
65°	3045.7	2271.8	1876.0	1961.5	1968.7	1918.7	1858.1	1808.2	1783.2	1804.6	1786.8
67.5°	1740.4	1736.9	1719.0	1808.2	1804.6	1754.7	1658.4	1615.6	1572.8	1579.9	1569.2
70°	1476.5	1505.0	1540.7	1594.2	1590.6	1533.6	1419.4	1387.3	1326.7	1319.6	1301.8
72.5°	1162.7	1212.6	1291.1	1330.3	1298.2	1226.9	1152.0	1098.5	1045.0	1012.9	1023.6
75°	863.1	934.4	977.2	1002.2	952.2	913.0	852.4	788.2	724.0	695.5	684.8
77.5°	627.7	649.1	688.3	706.2	674.1	634.8	599.2	535.0	474.3	435.1	424.4
80°	438.7	452.9	481.5	481.5	481.5	463.6	417.3	353.1	313.8	278.2	271.1
82.5°	306.7	321.0	349.5	335.2	331.7	310.3	281.7	231.8	189.0	164.1	156.9
85°	107.0	117.7	142.7	171.2	181.9	178.3	160.5	128.4	99.9	82.0	74.9
87.5°	25.0	25.0	28.5	25.0	25.0	28.5	25.0	25.0	25.0	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)