

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: P530426

Luminaire Tested: **GALN-SA5C-827-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530426
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-827-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22744 lumens
Efficiency: N/A
Efficacy: 84.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

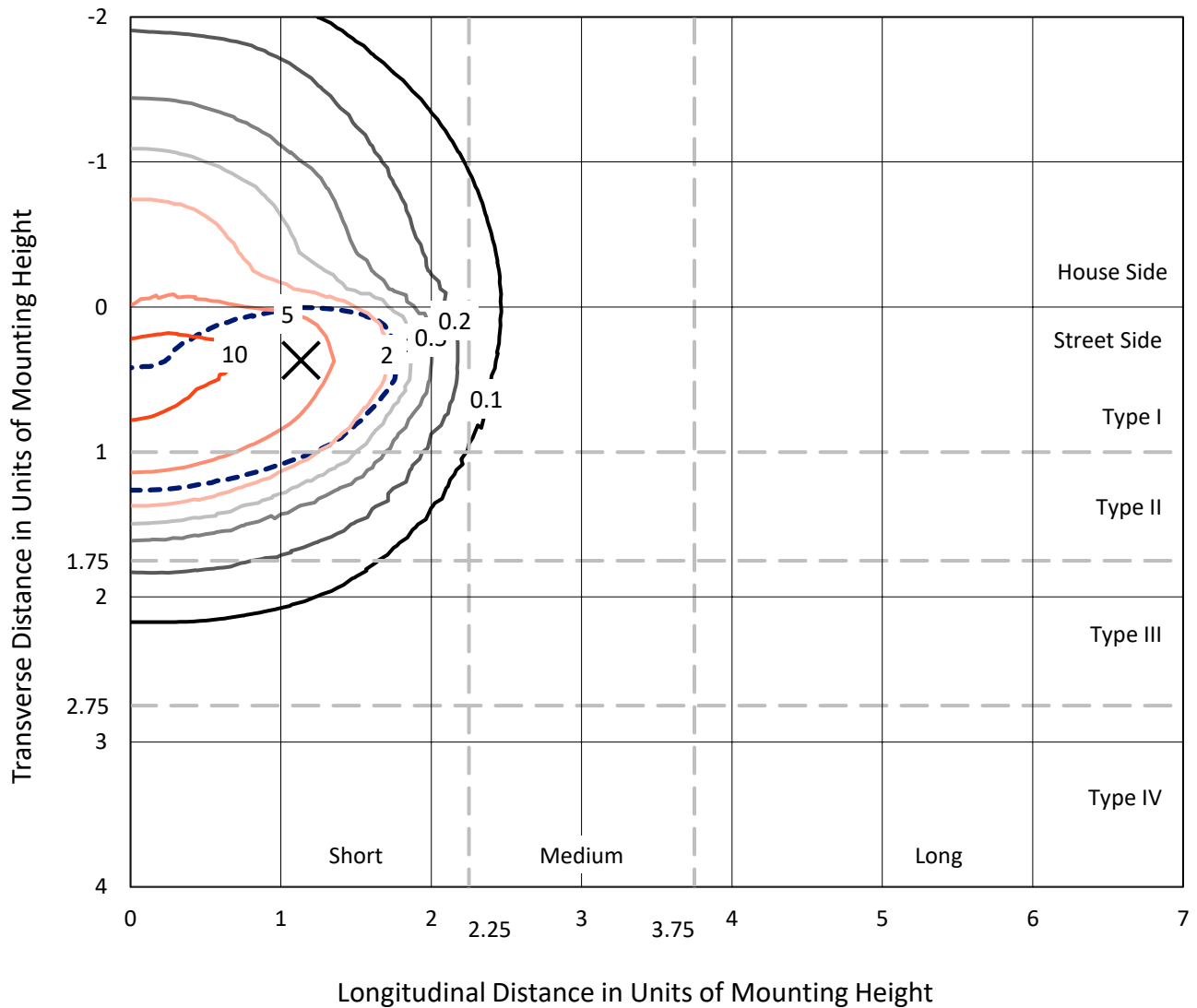
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

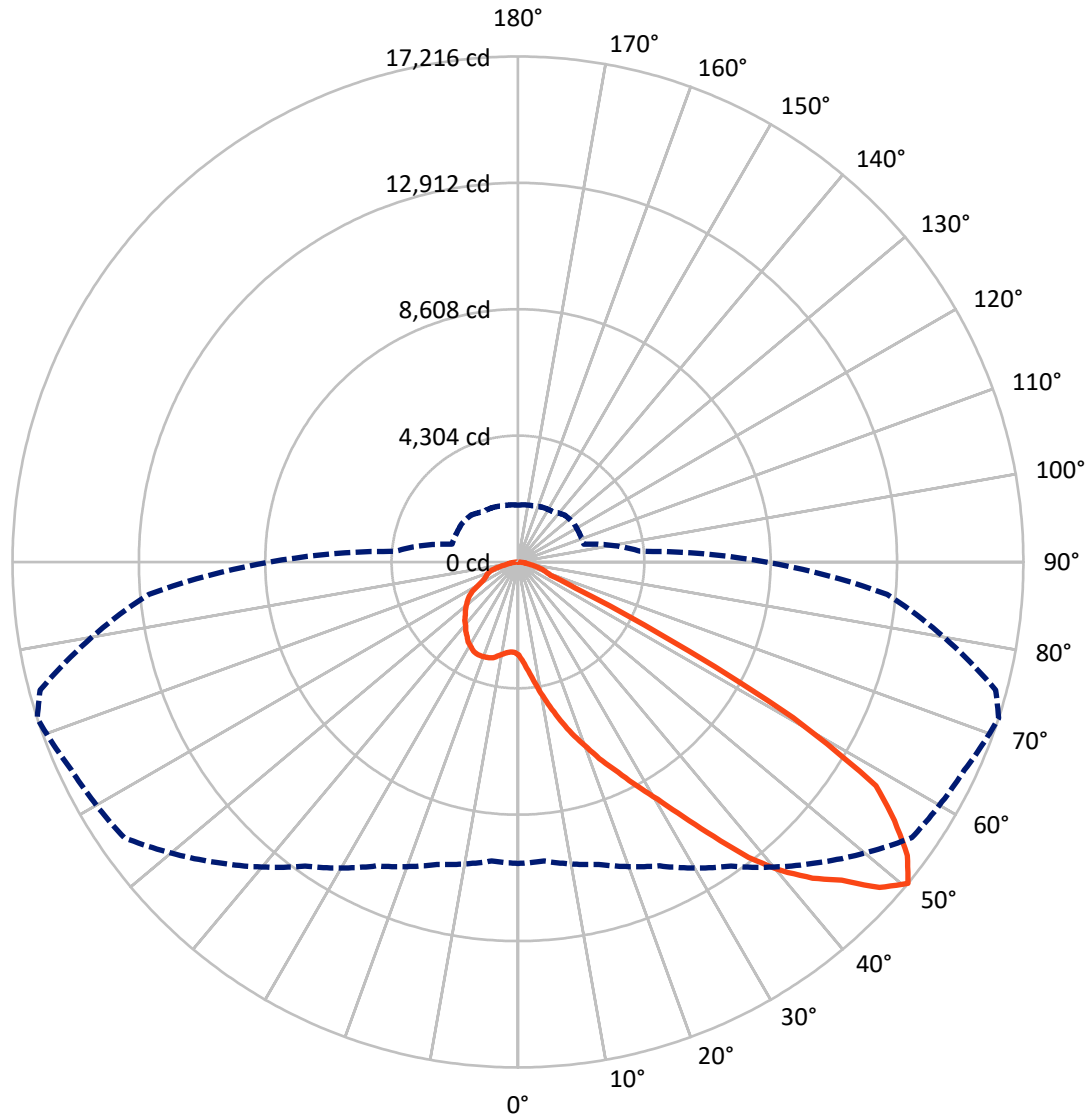
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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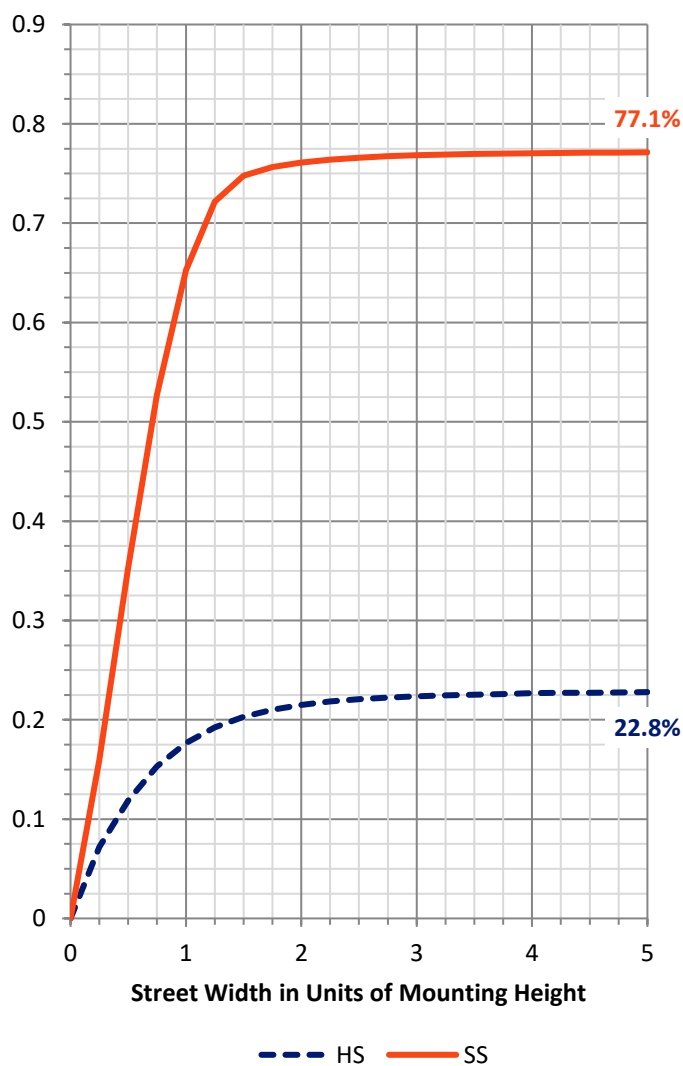
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5210.8	0.0	5210.8
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	17533.2	0.0	17533.2
	% Fixture	77.1	0.0	77.1
Total	Lumens	22744.0	0.0	22744.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.4	1.6
10°-20°	1392.2	6.1
20°-30°	2699.4	11.9
30°-40°	4472.0	19.7
40°-50°	6257.4	27.5
50°-60°	5278.9	23.2
60°-70°	1609.0	7.1
70°-80°	564.5	2.5
80°-90°	98.1	0.4
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°	22744.0	100.0
0°-180°	22744.0	100.0

Coefficient of Utilization

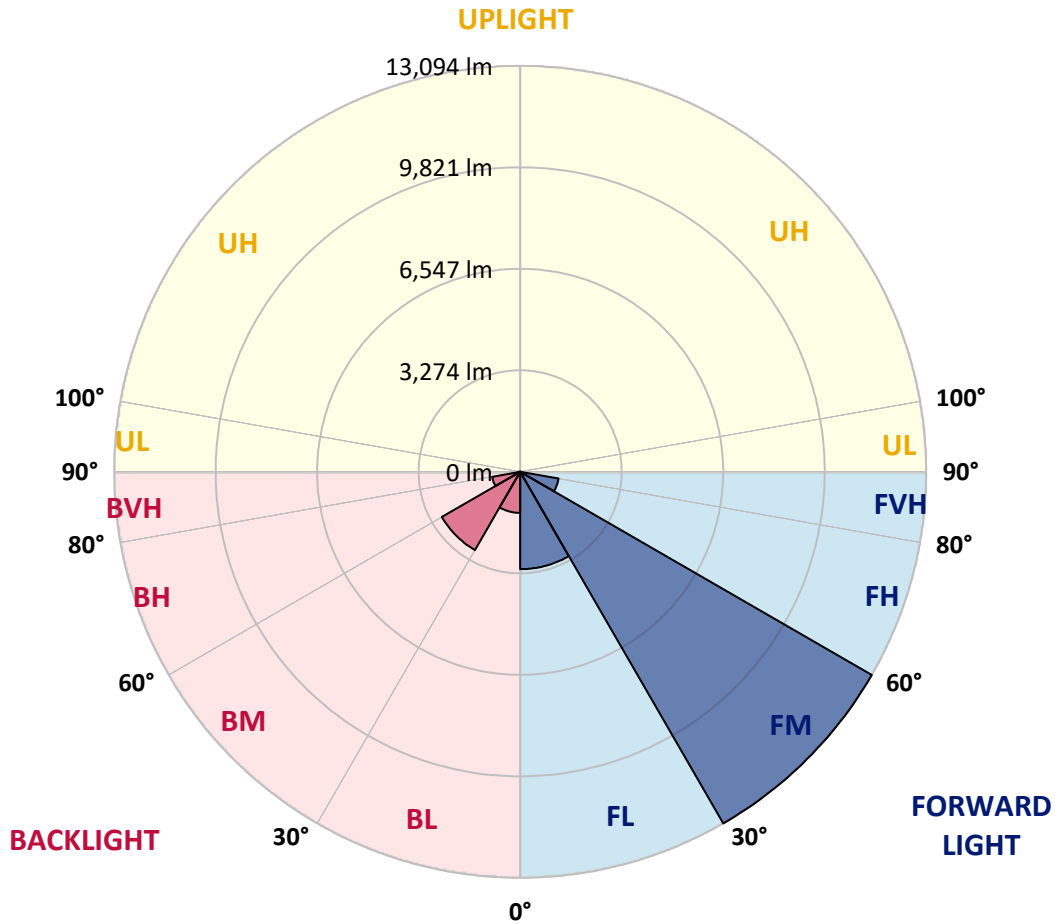


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3139.5	13.8			
FM (30°-60°)	13094.3	57.6			
FH (60°-80°)	1255.4	5.5			G1/1800
FVH (80°-90°)	44.0	0.2			G1/100
BL (0°-30°)	1324.6	5.8	B3/2500		
BM (30°-60°)	2914.0	12.8	B3/5000		
BH (60°-80°)	918.0	4.0	B2/1000		G2/1000
BVH (80°-90°)	54.2	0.2			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°	55°	65°	72°	75°	85°
0°	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2
2.5°	4072.4	4047.1	3971.1	3945.7	3855.7	3692.4	3636.2	3470.1	3399.8	3335.0	3259.0
5°	5150.3	5032.1	5023.6	4880.1	4671.8	4550.8	4190.6	3948.6	3726.2	3613.6	3405.4
7.5°	5837.0	5839.8	5839.8	5721.6	5555.6	5248.8	4925.1	4488.9	4154.0	3988.0	3633.3
10°	6489.9	6433.6	6402.7	6391.4	6278.8	5980.5	5634.4	5094.0	4635.3	4441.1	3805.0
12.5°	6951.5	6903.6	6974.0	6937.4	6855.8	6661.6	6335.1	5718.8	5144.7	4882.9	4080.8
15°	7171.0	7204.8	7261.1	7362.4	7325.8	7252.6	6892.4	6360.5	5693.5	5397.9	4325.7
17.5°	7508.7	7415.8	7483.4	7610.0	7711.4	7677.6	7472.1	6824.8	6236.6	5873.6	4655.0
20°	7745.1	7691.7	7725.4	7871.8	7947.8	8139.1	8032.2	7432.7	6757.3	6374.5	5043.3
22.5°	8420.6	8341.8	8232.0	8254.5	8282.7	8417.8	8443.1	8099.7	7362.4	6957.1	5412.0
25°	9253.6	9180.5	9051.0	8918.7	8837.1	8811.8	8899.0	8623.2	7942.1	7522.8	5808.8
27.5°	10171.1	10047.3	9965.7	9692.7	9473.1	9439.4	9397.2	9248.0	8628.8	8175.7	6256.3
30°	11063.3	10964.8	10855.0	10418.8	10190.8	10154.2	9946.0	9988.2	9374.6	8870.9	6762.9
32.5°	11738.7	11747.2	11496.7	11167.4	10953.5	10759.3	10683.3	10804.3	10331.5	9926.3	7328.6
35°	12284.7	12310.0	12070.8	11772.5	11541.7	11676.8	11643.0	11699.3	11474.2	10978.8	7987.2
37.5°	12816.6	12690.0	12433.9	12290.3	12169.3	12391.6	12678.7	12726.6	12768.8	12186.2	8752.7
40°	12903.9	12915.1	12766.0	12867.3	12715.3	13050.2	13717.2	13655.3	13827.0	13317.6	9582.9
42.5°	12780.0	12805.4	12864.5	13008.0	13373.9	13776.3	14767.0	14513.7	14721.9	14268.8	10390.6
45°	12577.4	12473.3	12546.4	13092.4	13725.6	14620.6	15726.7	15529.7	15462.1	15082.2	11353.1
47.5°	11609.2	11716.2	11944.2	12616.8	13568.0	14767.0	16407.7	16362.7	16565.3	16298.0	12228.4
50°	10266.8	10224.6	10663.6	11420.7	12647.7	14479.9	16371.2	16779.2	17215.5	16844.0	12619.6
52.5°	7688.8	7914.0	8291.1	9231.1	10981.6	12915.1	15571.9	16252.9	16607.6	16528.8	12304.4
55°	4860.4	4928.0	5155.9	6273.2	7849.3	10365.3	13348.5	14927.4	15560.6	15856.1	12014.5
57.5°	2361.3	2234.6	2513.2	3411.0	4533.9	6971.2	10294.9	13002.4	14378.6	14913.3	11384.1
60°	1232.7	1280.5	1390.3	1711.1	2344.4	3619.3	6416.7	8665.4	10767.8	11589.5	8628.8
62.5°	1021.6	1038.5	1111.7	1272.1	1559.2	2082.6	3275.9	4224.4	5490.8	6231.0	4908.2
65°	866.8	875.3	954.1	1061.0	1243.9	1466.3	1685.8	1764.6	2136.1	2192.4	1744.9
67.5°	723.3	731.7	816.2	917.5	1035.7	1094.8	1151.1	1145.4	1187.7	1170.8	1168.0
70°	557.2	565.7	652.9	759.9	819.0	785.2	959.7	999.1	1016.0	1030.1	1052.6
72.5°	402.5	419.3	486.9	562.9	531.9	610.7	790.8	849.9	872.5	880.9	909.0
75°	292.7	298.3	315.2	292.7	337.7	425.0	557.2	630.4	658.6	667.0	709.2
77.5°	129.5	132.3	135.1	168.9	216.7	264.6	332.1	391.2	430.6	441.9	453.1
80°	67.5	70.4	87.2	115.4	154.8	194.2	242.0	275.8	301.1	304.0	315.2
82.5°	42.2	45.0	61.9	81.6	109.8	143.5	177.3	205.4	225.1	228.0	230.8
85°	19.7	25.3	36.6	50.7	73.2	92.9	95.7	81.6	87.2	90.1	84.4
87.5°	5.6	8.4	11.3	8.4	11.3	11.3	14.1	16.9	16.9	16.9	19.7
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°	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2	3166.2
2.5°	3216.8	3191.5	3093.0	3056.4	2960.7	2977.6	2926.9	2924.1	2912.9	2910.1	2907.2
5°	3295.6	3216.8	3098.6	3008.6	2955.1	2949.5	2912.9	2912.9	2924.1	2932.6	2912.9
7.5°	3425.1	3335.0	3135.2	3050.8	3002.9	2994.5	2969.2	2949.5	2974.8	2966.3	2943.8
10°	3574.2	3416.6	3205.6	3132.4	3053.6	3033.9	3033.9	3042.3	3000.1	3014.2	2991.7
12.5°	3740.3	3529.2	3295.6	3211.2	3118.3	3107.1	3101.4	3039.5	3062.0	3050.8	2994.5
15°	3951.4	3658.7	3411.0	3267.5	3188.7	3138.0	3064.8	3053.6	3039.5	3011.4	2986.0
17.5°	4179.3	3799.4	3464.5	3284.4	3166.2	3129.6	3073.3	3014.2	2972.0	2977.6	2957.9
20°	4373.5	3928.9	3484.2	3301.2	3149.3	3078.9	2991.7	2955.1	2910.1	2907.2	2904.4
22.5°	4604.3	4103.3	3512.3	3256.2	3098.6	3025.4	2966.3	2901.6	2870.7	2831.2	2851.0
25°	4880.1	4170.9	3518.0	3230.9	3062.0	2932.6	2901.6	2831.2	2820.0	2763.7	2775.0
27.5°	5079.9	4207.5	3472.9	3152.1	2977.6	2879.1	2822.8	2772.1	2752.4	2710.2	2699.0
30°	5347.3	4263.8	3377.2	3053.6	2893.2	2783.4	2749.6	2738.4	2682.1	2637.1	2631.4
32.5°	5651.2	4300.3	3315.3	2952.3	2805.9	2721.5	2738.4	2684.9	2614.5	2575.1	2563.9
35°	5893.3	4314.4	3160.5	2836.9	2746.8	2693.3	2673.6	2662.4	2561.1	2524.5	2496.3
37.5°	6262.0	4283.5	3031.1	2755.3	2682.1	2662.4	2645.5	2569.5	2454.1	2400.7	2361.3
40°	6692.6	4275.0	2865.0	2639.9	2620.2	2642.7	2592.0	2473.8	2313.4	2254.3	2226.2
42.5°	7106.3	4334.1	2760.9	2578.0	2552.6	2561.1	2490.7	2313.4	2234.6	2200.8	2155.8
45°	7798.6	4458.0	2589.2	2482.3	2471.0	2465.4	2381.0	2195.2	2150.2	2108.0	2099.5
47.5°	8423.4	4376.3	2479.5	2383.8	2395.0	2364.1	2183.9	2124.8	2074.2	2032.0	2017.9
50°	8460.0	4182.1	2324.7	2307.8	2310.6	2257.1	2085.4	2046.0	1981.3	1953.2	1933.5
52.5°	8268.6	3864.1	2181.1	2186.8	2195.2	2108.0	1964.4	1936.3	1882.8	1843.4	1832.2
55°	7731.1	3368.8	2040.4	2062.9	2085.4	1919.4	1874.4	1804.0	1761.8	1705.5	1708.3
57.5°	6810.8	2713.0	1843.4	1880.0	1927.8	1744.9	1711.1	1623.9	1562.0	1516.9	1511.3
60°	4564.9	1930.7	1547.9	1562.0	1668.9	1595.7	1592.9	1505.7	1421.3	1381.9	1359.3
62.5°	2693.3	1474.7	1336.8	1322.8	1319.9	1362.2	1432.5	1401.6	1291.8	1215.8	1238.3
65°	1410.0	1274.9	1243.9	1196.1	1168.0	1156.7	1210.2	1224.2	1151.1	1069.5	1063.8
67.5°	1184.8	1184.8	1159.5	1142.6	1103.2	1055.4	1021.6	976.6	965.3	942.8	914.7
70°	1077.9	1106.0	1097.6	1058.2	1024.4	971.0	883.7	810.5	740.2	714.8	731.7
72.5°	940.0	968.1	968.1	948.4	903.4	821.8	737.4	652.9	593.8	548.8	543.2
75°	723.3	737.4	771.1	748.6	689.5	638.9	551.6	464.4	408.1	365.9	357.4
77.5°	461.6	484.1	484.1	481.3	439.0	391.2	334.9	273.0	230.8	199.8	191.4
80°	306.8	320.8	332.1	320.8	292.7	256.1	213.9	171.7	140.7	115.4	109.8
82.5°	225.1	242.0	250.5	239.2	211.1	182.9	152.0	121.0	90.1	70.4	64.7
85°	87.2	90.1	101.3	121.0	118.2	115.4	92.9	67.5	50.7	36.6	33.8
87.5°	22.5	19.7	22.5	22.5	19.7	16.9	16.9	16.9	16.9	8.4	11.3
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)