

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: P530262

Luminaire Tested: **GALN-SA5C-727-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530262
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-727-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 24910 lumens
Efficiency: N/A
Efficacy: 92.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

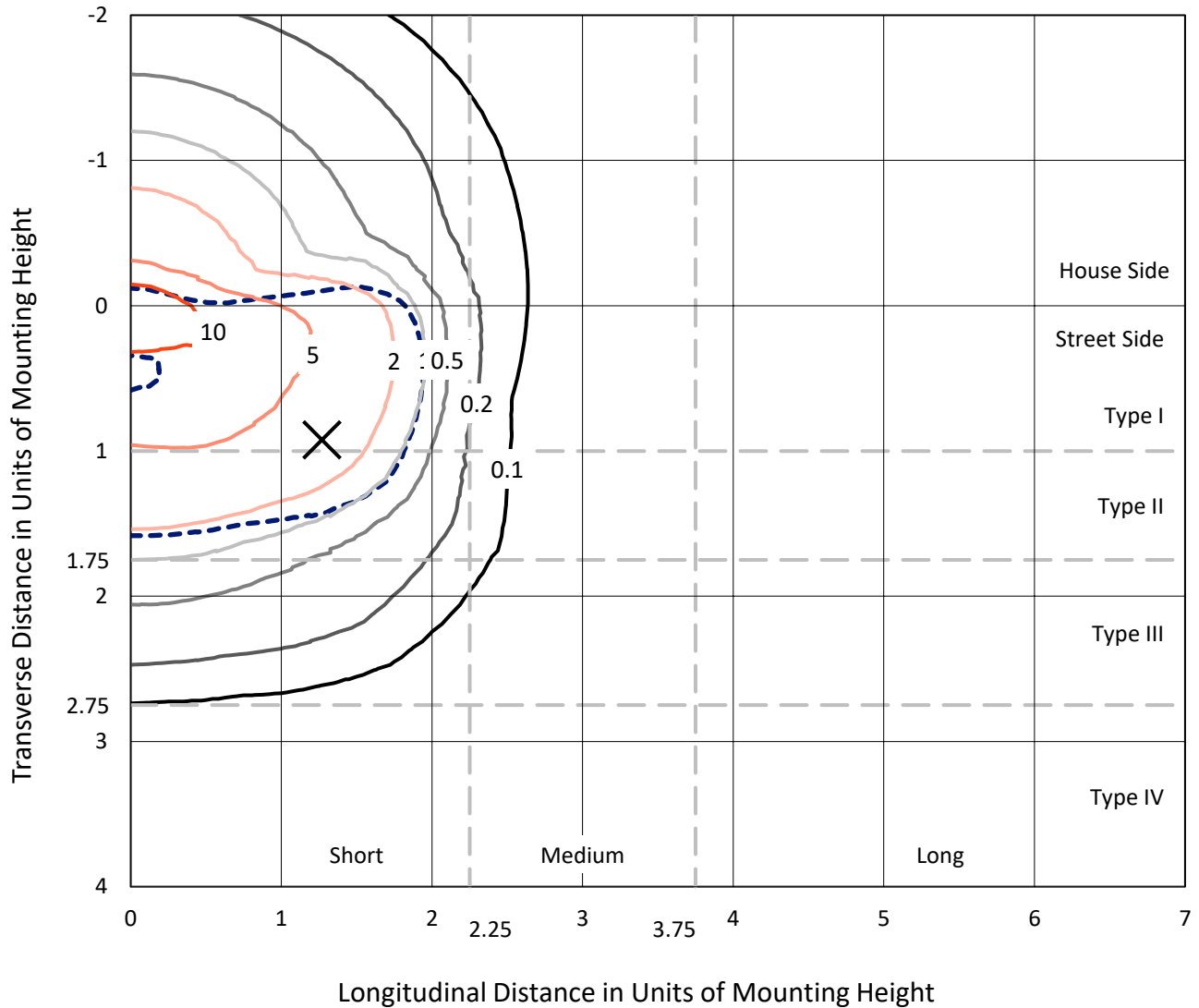
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

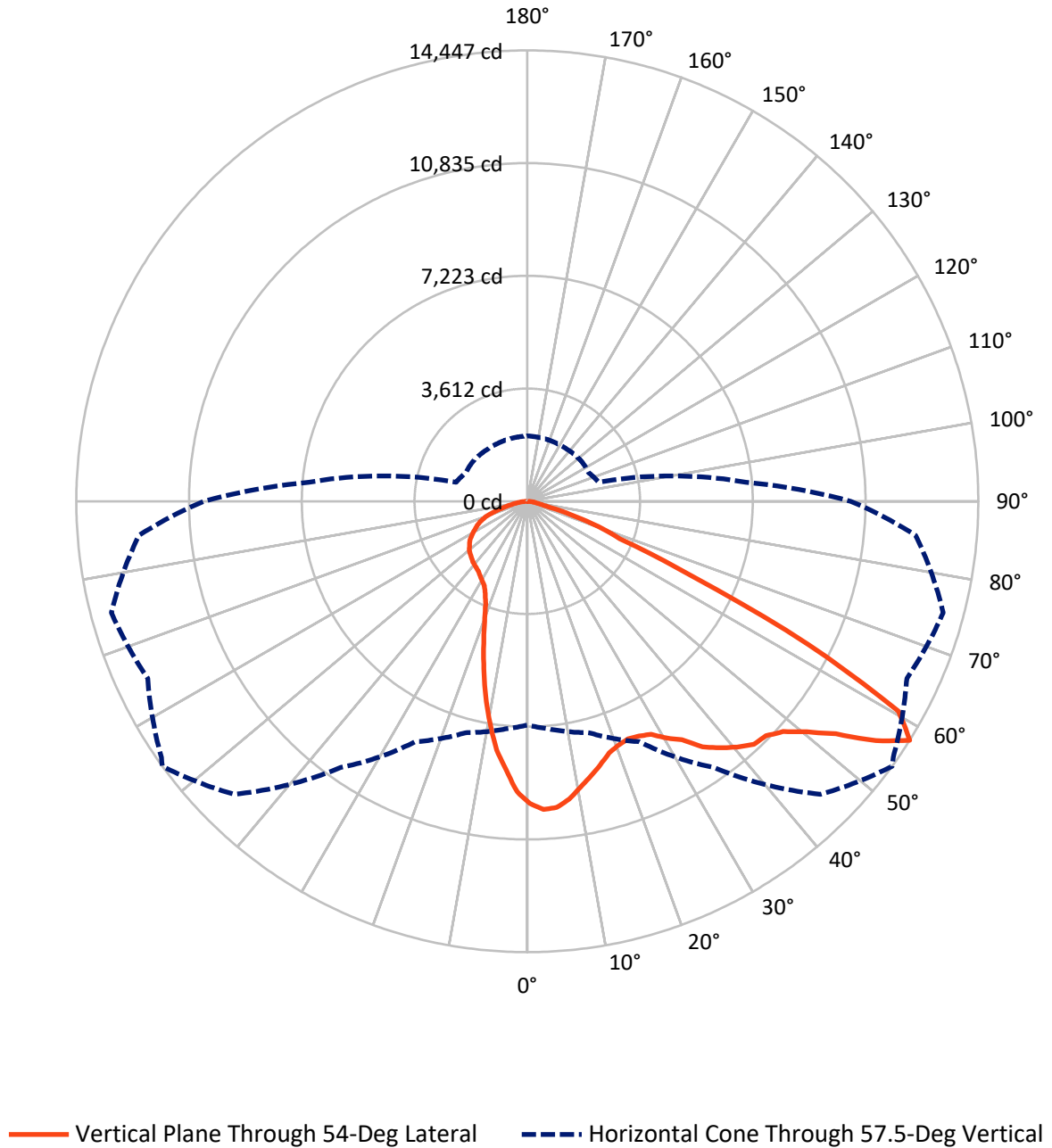
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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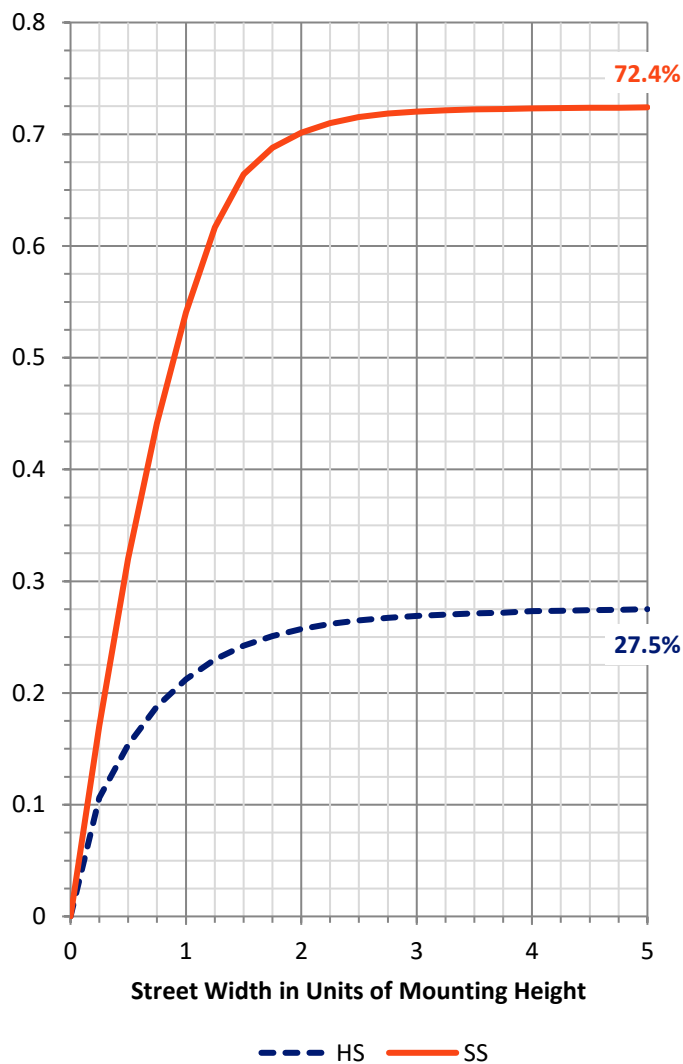
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6891.5	0.0	6891.5
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	18018.5	0.0	18018.5
	% Fixture	72.3	0.0	72.3
Total	Lumens	24910.0	0.0	24910.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	835.0	3.4
10°-20°	1933.3	7.8
20°-30°	2716.3	10.9
30°-40°	3797.5	15.2
40°-50°	5141.1	20.6
50°-60°	6262.0	25.1
60°-70°	3261.5	13.1
70°-80°	835.7	3.4
80°-90°	127.5	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°	24910.0	100.0
0°-180°	24910.0	100.0

Coefficient of Utilization



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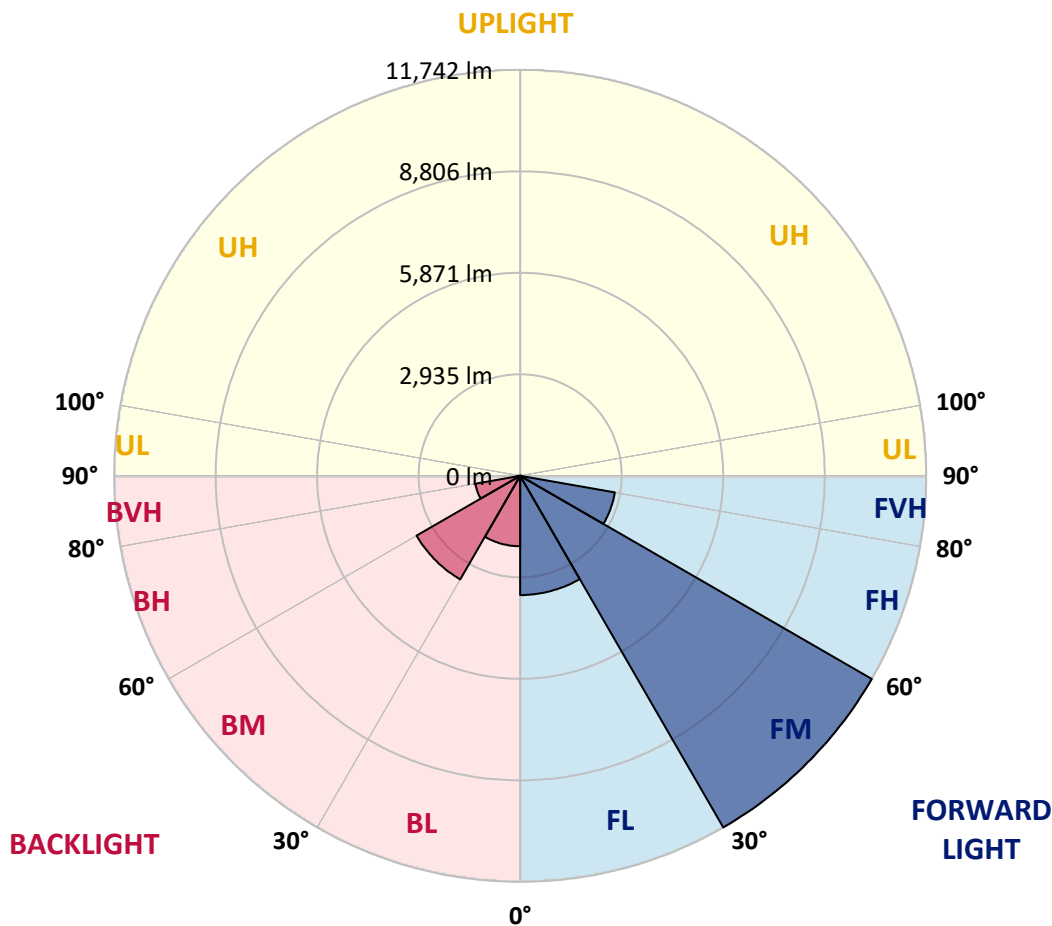
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3447.9	13.8			
FM (30°-60°)	11741.8	47.1			
FH (60°-80°)	2780.7	11.2			G2/5000
FVH (80°-90°)	48.2	0.2			G1/100
BL (0°-30°)	2036.8	8.2	B3/2500		
BM (30°-60°)	3458.8	13.9	B3/5000		
BH (60°-80°)	1316.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	79.3	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°	9682.2	9682.2	9682.2	9682.2	9682.2	9682.2	9682.2	9682.2	9682.2	9682.2	9682.2
2.5°	9957.6	9919.2	9925.6	9976.8	9912.8	9887.1	9887.1	9762.3	9771.9	9685.4	9663.0
5°	9727.1	9637.4	9698.2	9775.1	9787.9	9813.5	9855.1	9823.1	9733.5	9640.6	9490.1
7.5°	9125.1	9205.2	9227.6	9282.0	9397.3	9502.9	9634.2	9544.6	9541.4	9448.5	9358.9
10°	8596.8	8548.8	8670.5	8750.5	8942.6	9118.7	9320.4	9310.8	9358.9	9253.2	9099.5
12.5°	8071.7	8033.3	8090.9	8273.4	8542.4	8798.5	9038.7	8949.0	9205.2	9186.0	8856.2
15°	7514.6	7543.4	7626.7	7796.4	8148.6	8455.9	8760.1	8763.3	8990.6	9067.5	8625.6
17.5°	7124.0	7092.0	7197.6	7450.6	7764.4	8132.6	8478.4	8548.8	8897.8	8942.6	8555.2
20°	6832.6	6877.5	7015.1	7143.2	7505.0	7950.1	8340.7	8366.3	8878.6	9000.2	8443.1
22.5°	6762.2	6736.6	6781.4	6989.5	7287.3	7770.8	8267.0	8363.1	8875.4	8981.0	8231.8
25°	6688.6	6771.8	6768.6	6976.7	7194.4	7626.7	8327.9	8433.5	9045.1	9080.3	8260.6
27.5°	6855.0	6845.4	6935.1	6951.1	7220.1	7665.1	8455.9	8536.0	9326.8	9298.0	8283.0
30°	7021.5	6973.5	7027.9	7216.8	7341.7	7886.0	8808.1	8801.7	9691.8	9672.6	8353.5
32.5°	7226.5	7204.0	7239.3	7405.8	7617.1	8180.6	9105.9	9294.8	10063.2	10184.9	8596.8
35°	7264.9	7357.7	7441.0	7665.1	7966.1	8657.7	9666.2	9823.1	10492.3	10873.3	9061.1
37.5°	7508.2	7543.4	7738.7	8135.8	8411.1	9294.8	10021.6	10120.9	10882.9	11315.1	9551.0
40°	7767.6	7809.2	8103.7	8520.0	8897.8	9711.0	10354.6	10386.6	11007.8	11654.5	9871.1
42.5°	8119.8	8158.2	8449.5	8971.4	9477.3	10066.4	10649.2	10684.4	10998.2	12045.2	10380.2
45°	8484.8	8577.6	8920.2	9512.5	9967.2	10482.7	10716.4	10860.5	11087.8	12394.2	10793.3
47.5°	8997.0	9083.5	9365.3	9944.8	10476.3	10847.7	11027.0	11167.9	11302.3	12698.3	11059.0
50°	9541.4	9557.4	9900.0	10425.0	10815.7	11260.7	11606.5	11654.5	11584.1	13050.5	11510.5
52.5°	9941.6	9992.8	10258.6	10770.8	11353.6	11901.1	12374.9	12426.2	12288.5	13181.8	11664.1
55°	9278.8	9250.0	9682.2	10364.2	11715.4	12855.2	13543.6	13582.0	12800.8	13588.4	12166.8
57.5°	7172.0	7309.7	7677.9	8500.8	10409.0	13277.8	14446.5	14308.8	13415.5	13793.3	12487.0
60°	5212.5	5180.5	5427.0	5977.8	7844.4	11443.2	13658.9	13799.7	12912.8	12432.6	10297.0
62.5°	4245.6	4200.8	4220.0	4239.2	5062.0	7594.7	10111.3	10108.1	9944.8	8936.2	6944.7
65°	3393.9	3499.6	3509.2	3653.2	3758.9	4536.9	5859.3	6173.1	5375.8	4408.9	3198.6
67.5°	2558.2	2519.8	2647.9	3160.2	3358.7	3275.4	3198.6	3233.8	2298.9	1658.5	1562.5
70°	1508.0	1492.0	1645.7	2202.8	2766.4	2603.1	2411.0	2414.2	1578.5	1159.1	1290.3
72.5°	826.1	822.9	854.9	1117.4	1572.1	1632.9	1447.2	1492.0	941.3	938.1	1008.6
75°	461.1	451.5	441.8	493.1	566.7	598.7	611.5	617.9	646.8	723.6	752.4
77.5°	169.7	163.3	163.3	188.9	240.1	301.0	381.0	387.4	457.9	525.1	553.9
80°	57.6	64.0	86.4	118.5	160.1	214.5	259.3	265.7	323.4	368.2	377.8
82.5°	35.2	38.4	57.6	83.2	115.3	150.5	192.1	195.3	240.1	269.0	281.8
85°	16.0	19.2	32.0	51.2	73.6	99.3	102.5	102.5	99.3	102.5	96.1
87.5°	0.0	0.0	6.4	6.4	6.4	9.6	12.8	9.6	16.0	19.2	19.2
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°	9682.2	9682.2	9682.2	9682.2	9682.2	9682.2	9682.2	9682.2	9682.2	9682.2	9682.2
2.5°	9595.8	9560.6	9451.7	9355.6	9326.8	9198.8	9009.9	9032.3	8894.6	8958.6	8891.4
5°	9464.5	9346.0	9067.5	8949.0	8638.4	8497.6	8401.5	8161.4	8049.3	8026.9	7930.8
7.5°	9128.3	9054.7	8705.7	8385.5	8055.7	7774.0	7412.2	7165.6	6989.5	6941.5	6800.6
10°	8862.6	8699.3	8215.8	7729.1	7258.5	6768.6	6297.9	5929.7	5750.4	5542.3	5471.9
12.5°	8600.0	8353.5	7700.3	7076.0	6467.6	5849.7	5279.8	4831.5	4440.9	4348.0	4316.0
15°	8436.7	8007.7	7239.3	6486.8	5622.4	4815.5	4245.6	3951.0	3710.9	3611.6	3682.1
17.5°	8222.2	7722.7	6797.4	5795.3	4844.3	4101.5	3624.4	3441.9	3355.5	3365.1	3336.3
20°	7953.3	7453.8	6217.9	5167.7	4149.5	3557.2	3285.0	3217.8	3230.6	3253.0	3243.4
22.5°	7761.2	7127.2	5798.5	4527.3	3586.0	3256.2	3144.2	3096.1	3137.8	3157.0	3141.0
25°	7613.9	6848.6	5289.4	3960.6	3259.4	3086.5	3035.3	3032.1	3096.1	3121.8	3105.7
27.5°	7479.4	6589.3	4783.5	3528.4	3041.7	2955.3	2939.2	2977.7	3019.3	3044.9	3067.3
30°	7399.4	6390.8	4309.6	3166.6	2932.8	2891.2	2862.4	2897.6	2920.0	2945.7	2932.8
32.5°	7476.2	6249.9	3851.8	2961.7	2843.2	2801.6	2840.0	2817.6	2856.0	2878.4	2843.2
35°	7716.3	6125.0	3525.2	2852.8	2740.7	2756.7	2763.2	2753.5	2769.6	2750.3	2792.0
37.5°	7953.3	6080.2	3224.2	2759.9	2692.7	2692.7	2686.3	2667.1	2699.1	2692.7	2711.9
40°	8254.2	6109.0	2968.1	2660.7	2647.9	2641.5	2615.9	2612.7	2599.9	2603.1	2609.5
42.5°	8516.8	6173.1	2820.8	2596.7	2606.3	2619.1	2571.0	2532.6	2548.6	2516.6	2516.6
45°	8795.3	6230.7	2689.5	2551.8	2542.2	2539.0	2500.6	2478.2	2465.4	2468.6	2497.4
47.5°	9234.0	6313.9	2590.3	2491.0	2497.4	2449.4	2439.8	2411.0	2423.8	2443.0	2446.2
50°	9544.6	6490.0	2513.4	2420.6	2443.0	2411.0	2353.3	2340.5	2340.5	2372.5	2366.1
52.5°	9762.3	6736.6	2439.8	2343.7	2353.3	2327.7	2308.5	2279.7	2260.5	2305.3	2327.7
55°	10428.3	7146.4	2420.6	2279.7	2276.5	2250.9	2215.6	2186.8	2177.2	2183.6	2228.5
57.5°	10364.2	7018.3	2359.7	2167.6	2161.2	2126.0	2090.8	2081.2	2078.0	2084.4	2097.2
60°	8414.3	5183.7	2106.8	2039.5	2029.9	2023.5	1988.3	1949.9	1930.7	1949.9	1933.9
62.5°	5567.9	3470.7	1857.0	1885.9	1892.3	1876.3	1818.6	1780.2	1786.6	1809.0	1773.8
65°	2734.3	2039.5	1684.1	1761.0	1767.4	1722.6	1668.1	1623.3	1600.9	1620.1	1604.1
67.5°	1562.5	1559.3	1543.3	1623.3	1620.1	1575.3	1488.8	1450.4	1412.0	1418.4	1408.8
70°	1325.5	1351.2	1383.2	1431.2	1428.0	1376.8	1274.3	1245.5	1191.1	1184.7	1168.7
72.5°	1043.8	1088.6	1159.1	1194.3	1165.5	1101.4	1034.2	986.2	938.1	909.3	918.9
75°	774.8	838.9	877.3	899.7	854.9	819.7	765.2	707.6	650.0	624.4	614.7
77.5°	563.5	582.7	617.9	634.0	605.1	569.9	537.9	480.3	425.8	390.6	381.0
80°	393.8	406.6	432.2	432.2	432.2	416.2	374.6	317.0	281.8	249.7	243.3
82.5°	275.4	288.2	313.8	301.0	297.8	278.6	252.9	208.1	169.7	147.3	140.9
85°	96.1	105.7	128.1	153.7	163.3	160.1	144.1	115.3	89.7	73.6	67.2
87.5°	22.4	22.4	25.6	22.4	22.4	25.6	22.4	22.4	22.4	16.0	12.8
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)