

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: P531718

Luminaire Tested: **GALN-SA7A-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531718
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-SA7A-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA 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: 25103 lumens
Efficiency: N/A
Efficacy: 116.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

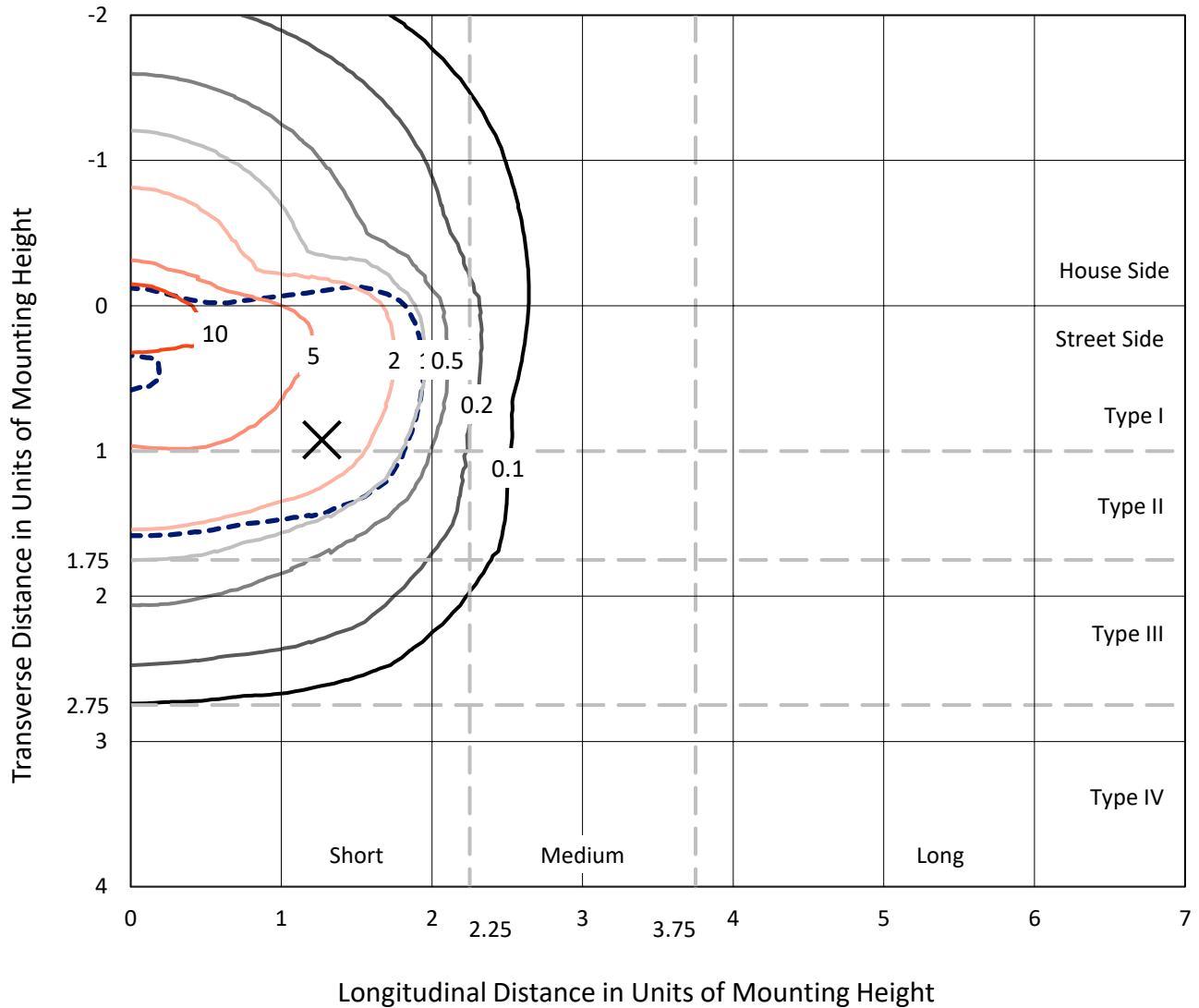
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

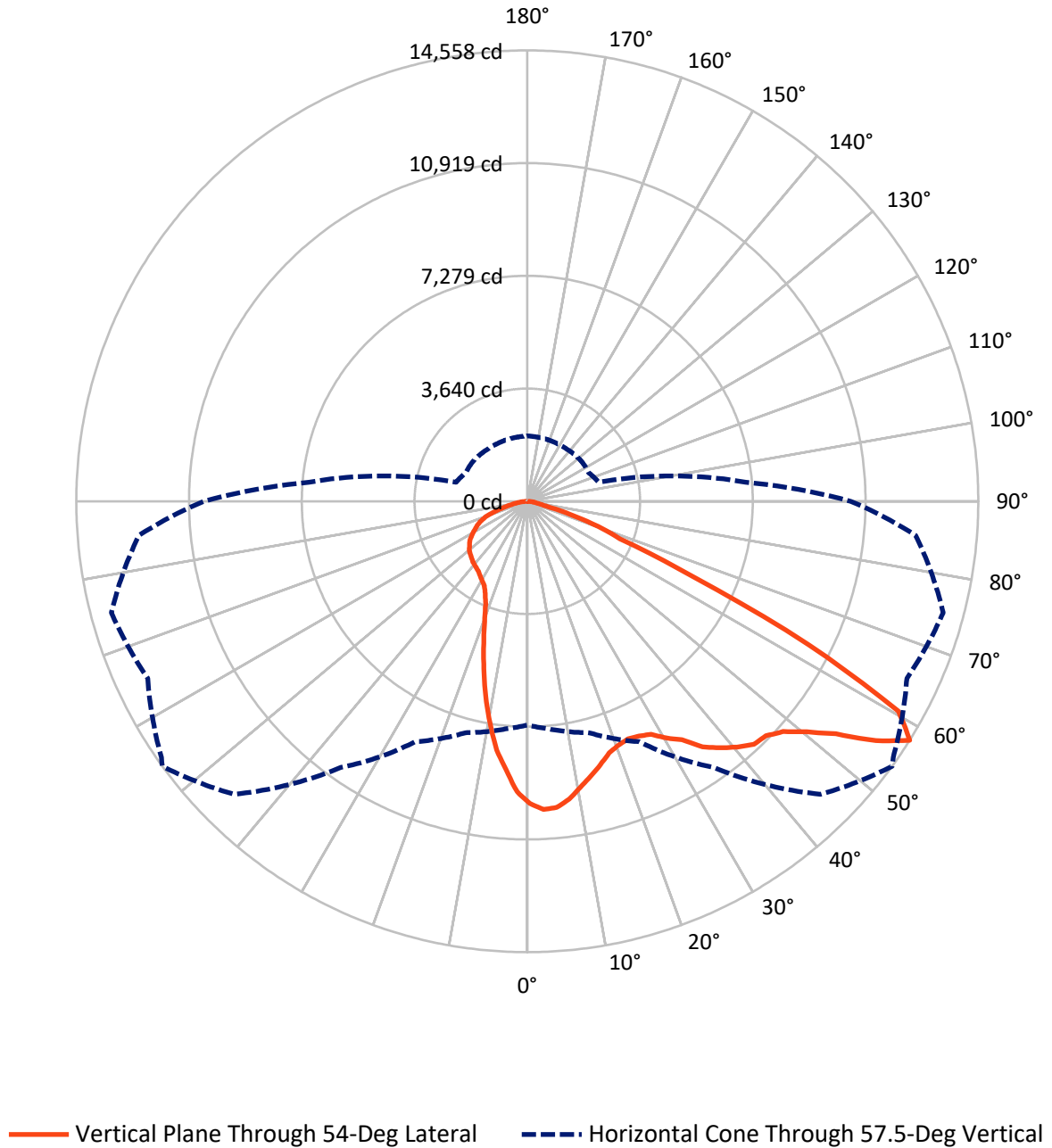
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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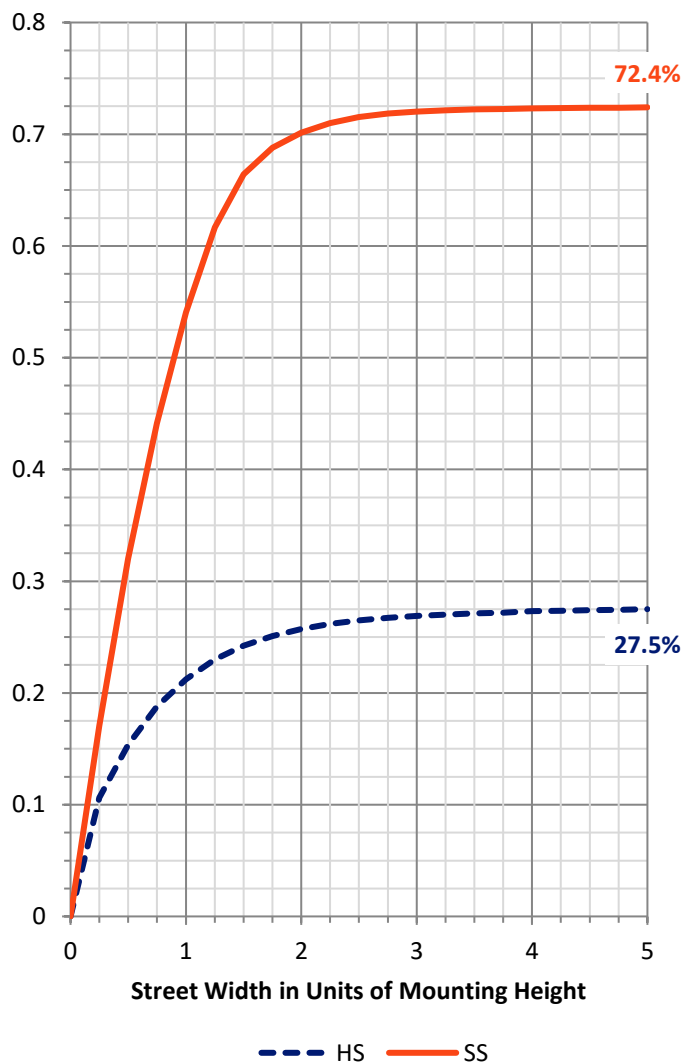
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6944.9	0.0	6944.9
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	18158.1	0.0	18158.1
	% Fixture	72.3	0.0	72.3
Total	Lumens	25103.0	0.0	25103.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.5	3.4
10°-20°	1948.3	7.8
20°-30°	2737.4	10.9
30°-40°	3826.9	15.2
40°-50°	5180.9	20.6
50°-60°	6310.5	25.1
60°-70°	3286.8	13.1
70°-80°	842.2	3.4
80°-90°	128.5	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°	25103.0	100.0
0°-180°	25103.0	100.0

Coefficient of Utilization



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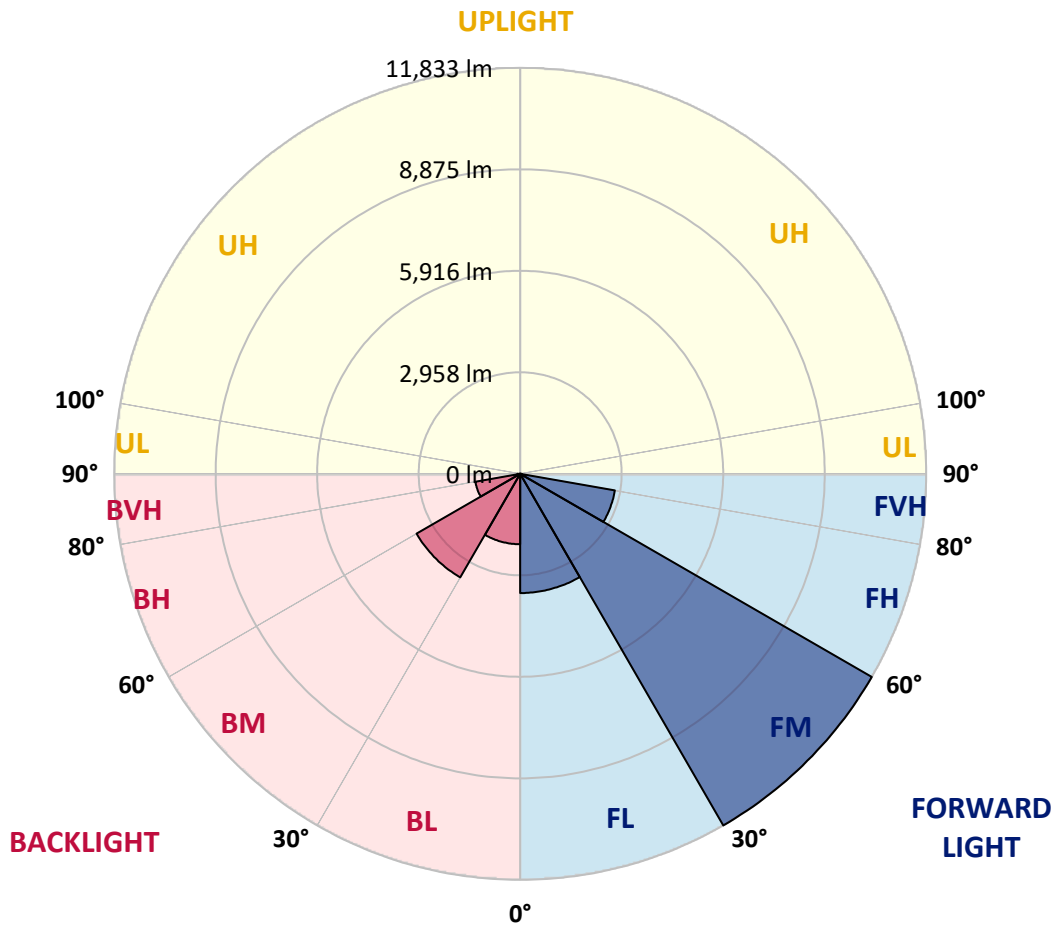
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3474.6	13.8			
FM (30°-60°)	11832.8	47.1			
FH (60°-80°)	2802.2	11.2			G2/5000
FVH (80°-90°)	48.5	0.2			G1/100
BL (0°-30°)	2052.6	8.2	B3/2500		
BM (30°-60°)	3485.6	13.9	B3/5000		
BH (60°-80°)	1326.8	5.3	B3/2500		G3/2500
BVH (80°-90°)	79.9	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°	9757.2	9757.2	9757.2	9757.2	9757.2	9757.2	9757.2	9757.2	9757.2	9757.2	9757.2
2.5°	10034.7	9996.0	10002.5	10054.1	9989.6	9963.8	9963.8	9837.9	9847.6	9760.5	9737.9
5°	9802.4	9712.1	9773.4	9850.8	9863.7	9889.5	9931.5	9899.2	9808.9	9715.3	9563.7
7.5°	9195.8	9276.5	9299.1	9353.9	9470.1	9576.6	9708.8	9618.5	9615.3	9521.7	9431.4
10°	8663.4	8615.0	8737.6	8818.3	9011.9	9189.4	9392.6	9383.0	9431.4	9324.9	9170.0
12.5°	8134.3	8095.5	8153.6	8337.5	8608.6	8866.7	9108.7	9018.4	9276.5	9257.1	8924.8
15°	7572.8	7601.9	7685.8	7856.8	8211.7	8521.5	8828.0	8831.2	9060.3	9137.7	8692.5
17.5°	7179.2	7146.9	7253.4	7508.3	7824.5	8195.6	8544.0	8615.0	8966.7	9011.9	8621.5
20°	6885.6	6930.7	7069.5	7198.6	7563.2	8011.7	8405.3	8431.1	8947.4	9070.0	8508.6
22.5°	6814.6	6788.8	6833.9	7043.7	7343.7	7831.0	8331.1	8427.9	8944.1	9050.6	8295.6
25°	6740.4	6824.3	6821.0	7030.8	7250.2	7685.8	8392.4	8498.9	9115.2	9150.6	8324.6
27.5°	6908.2	6898.5	6988.8	7005.0	7276.0	7724.5	8521.5	8602.1	9399.1	9370.1	8347.2
30°	7075.9	7027.5	7082.4	7272.8	7398.6	7947.1	8876.4	8869.9	9766.9	9747.6	8418.2
32.5°	7282.4	7259.9	7295.4	7463.1	7676.1	8244.0	9176.5	9366.8	10141.2	10263.8	8663.4
35°	7321.2	7414.7	7498.6	7724.5	8027.8	8724.7	9741.1	9899.2	10573.6	10957.5	9131.3
37.5°	7566.4	7601.9	7798.7	8198.8	8476.3	9366.8	10099.3	10199.3	10967.2	11402.8	9625.0
40°	7827.7	7869.7	8166.5	8586.0	8966.7	9786.3	10434.8	10467.1	11093.1	11744.8	9947.6
42.5°	8182.7	8221.4	8515.0	9040.9	9550.7	10144.4	10731.7	10767.2	11083.4	12138.5	10460.6
45°	8550.5	8644.1	8989.3	9586.2	10044.4	10563.9	10799.4	10944.6	11173.7	12490.2	10876.9
47.5°	9066.8	9153.9	9437.8	10021.8	10557.4	10931.7	11112.4	11254.4	11389.9	12796.7	11144.7
50°	9615.3	9631.4	9976.7	10505.8	10899.5	11348.0	11696.4	11744.8	11673.9	13151.6	11599.6
52.5°	10018.6	10070.2	10338.0	10854.3	11441.5	11993.3	12470.8	12522.4	12383.7	13283.9	11754.5
55°	9350.7	9321.7	9757.2	10444.5	11806.1	12954.8	13648.5	13687.3	12900.0	13693.7	12261.1
57.5°	7227.6	7366.3	7737.4	8566.6	10489.7	13380.7	14558.4	14419.7	13519.5	13900.2	12583.8
60°	5252.9	5220.6	5469.1	6024.1	7905.2	11531.9	13764.7	13906.7	13012.9	12528.9	10376.8
62.5°	4278.5	4233.3	4252.7	4272.0	5101.3	7653.5	10189.6	10186.4	10021.8	9005.4	6998.5
65°	3420.2	3526.7	3536.4	3681.6	3788.0	4572.1	5904.7	6220.9	5417.5	4443.0	3223.4
67.5°	2578.1	2539.3	2668.4	3184.7	3384.7	3300.8	3223.4	3258.9	2316.7	1671.4	1574.6
70°	1519.7	1503.6	1658.5	2219.9	2787.8	2623.2	2429.6	2432.9	1590.7	1168.0	1300.3
72.5°	832.5	829.2	861.5	1126.1	1584.3	1645.6	1458.4	1503.6	948.6	945.4	1016.4
75°	464.6	455.0	445.3	496.9	571.1	603.4	616.3	622.7	651.8	729.2	758.3
77.5°	171.0	164.6	164.6	190.4	242.0	303.3	384.0	390.4	461.4	529.2	558.2
80°	58.1	64.5	87.1	119.4	161.3	216.2	261.4	267.8	325.9	371.1	380.7
82.5°	35.5	38.7	58.1	83.9	116.2	151.7	193.6	196.8	242.0	271.0	283.9
85°	16.1	19.4	32.3	51.6	74.2	100.0	103.3	103.3	100.0	103.3	96.8
87.5°	0.0	0.0	6.5	6.5	6.5	9.7	12.9	9.7	16.1	19.4	19.4
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°	9757.2	9757.2	9757.2	9757.2	9757.2	9757.2	9757.2	9757.2	9757.2	9757.2	9757.2
2.5°	9670.1	9634.6	9524.9	9428.1	9399.1	9270.0	9079.7	9102.2	8963.5	9028.0	8960.3
5°	9537.8	9418.5	9137.7	9018.4	8705.4	8563.4	8466.6	8224.6	8111.7	8089.1	7992.3
7.5°	9199.0	9124.8	8773.1	8450.5	8118.1	7834.2	7469.6	7221.1	7043.7	6995.3	6853.3
10°	8931.2	8766.7	8279.5	7789.0	7314.7	6821.0	6346.7	5975.7	5795.0	5585.3	5514.3
12.5°	8666.7	8418.2	7760.0	7130.8	6517.7	5895.0	5320.7	4868.9	4475.3	4381.7	4349.5
15°	8502.1	8069.7	7295.4	6537.1	5665.9	4852.8	4278.5	3981.6	3739.6	3639.6	3710.6
17.5°	8285.9	7782.6	6850.1	5840.2	4881.9	4133.3	3652.5	3468.6	3381.5	3391.2	3362.1
20°	8014.9	7511.5	6266.1	5207.7	4181.7	3584.8	3310.5	3242.7	3255.6	3278.2	3268.5
22.5°	7821.3	7182.4	5843.4	4562.4	3613.8	3281.5	3168.5	3120.1	3162.1	3181.4	3165.3
25°	7672.9	6901.7	5330.3	3991.3	3284.7	3110.4	3058.8	3055.6	3120.1	3145.9	3129.8
27.5°	7537.3	6640.3	4820.5	3555.7	3065.3	2978.2	2962.0	3000.7	3042.7	3068.5	3091.1
30°	7456.7	6440.3	4343.0	3191.1	2955.6	2913.6	2884.6	2920.1	2942.7	2968.5	2955.6
32.5°	7534.1	6298.3	3881.6	2984.6	2865.2	2823.3	2862.0	2839.4	2878.1	2900.7	2865.2
35°	7776.1	6172.5	3552.5	2874.9	2762.0	2778.1	2784.6	2774.9	2791.0	2771.7	2813.6
37.5°	8014.9	6127.3	3249.2	2781.3	2713.6	2713.6	2707.1	2687.8	2720.0	2713.6	2732.9
40°	8318.2	6156.4	2991.1	2681.3	2668.4	2661.9	2636.1	2632.9	2620.0	2623.2	2629.7
42.5°	8582.8	6220.9	2842.6	2616.8	2626.5	2639.4	2591.0	2552.2	2568.4	2536.1	2536.1
45°	8863.5	6279.0	2710.3	2571.6	2561.9	2558.7	2520.0	2497.4	2484.5	2487.7	2516.8
47.5°	9305.5	6362.9	2610.3	2510.3	2516.8	2468.4	2458.7	2429.6	2442.5	2461.9	2465.1
50°	9618.5	6540.3	2532.9	2439.3	2461.9	2429.6	2371.6	2358.6	2358.6	2390.9	2384.5
52.5°	9837.9	6788.8	2458.7	2361.9	2371.6	2345.7	2326.4	2297.3	2278.0	2323.2	2345.7
55°	10509.0	7201.8	2439.3	2297.3	2294.1	2268.3	2232.8	2203.8	2194.1	2200.5	2245.7
57.5°	10444.5	7072.7	2378.0	2184.4	2178.0	2142.5	2107.0	2097.3	2094.1	2100.5	2113.4
60°	8479.5	5223.9	2123.1	2055.3	2045.7	2039.2	2003.7	1965.0	1945.6	1965.0	1948.9
62.5°	5611.1	3497.6	1871.4	1900.5	1906.9	1890.8	1832.7	1794.0	1800.4	1823.0	1787.5
65°	2755.5	2055.3	1697.2	1774.6	1781.1	1735.9	1681.1	1635.9	1613.3	1632.7	1616.5
67.5°	1574.6	1571.4	1555.2	1635.9	1632.7	1587.5	1500.4	1461.7	1422.9	1429.4	1419.7
70°	1335.8	1361.6	1393.9	1442.3	1439.1	1387.4	1284.2	1255.1	1200.3	1193.8	1177.7
72.5°	1051.9	1097.0	1168.0	1203.5	1174.5	1110.0	1042.2	993.8	945.4	916.4	926.0
75°	780.8	845.4	884.1	906.7	861.5	826.0	771.2	713.1	655.0	629.2	619.5
77.5°	567.9	587.2	622.7	638.9	609.8	574.3	542.1	484.0	429.1	393.6	384.0
80°	396.9	409.8	435.6	435.6	435.6	419.5	377.5	319.4	283.9	251.7	245.2
82.5°	277.5	290.4	316.2	303.3	300.1	280.7	254.9	209.7	171.0	148.4	142.0
85°	96.8	106.5	129.1	154.9	164.6	161.3	145.2	116.2	90.3	74.2	67.8
87.5°	22.6	22.6	25.8	22.6	22.6	25.8	22.6	22.6	22.6	16.1	12.9
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)