

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: P530078

Luminaire Tested: **GALN-SA5B-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22499 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

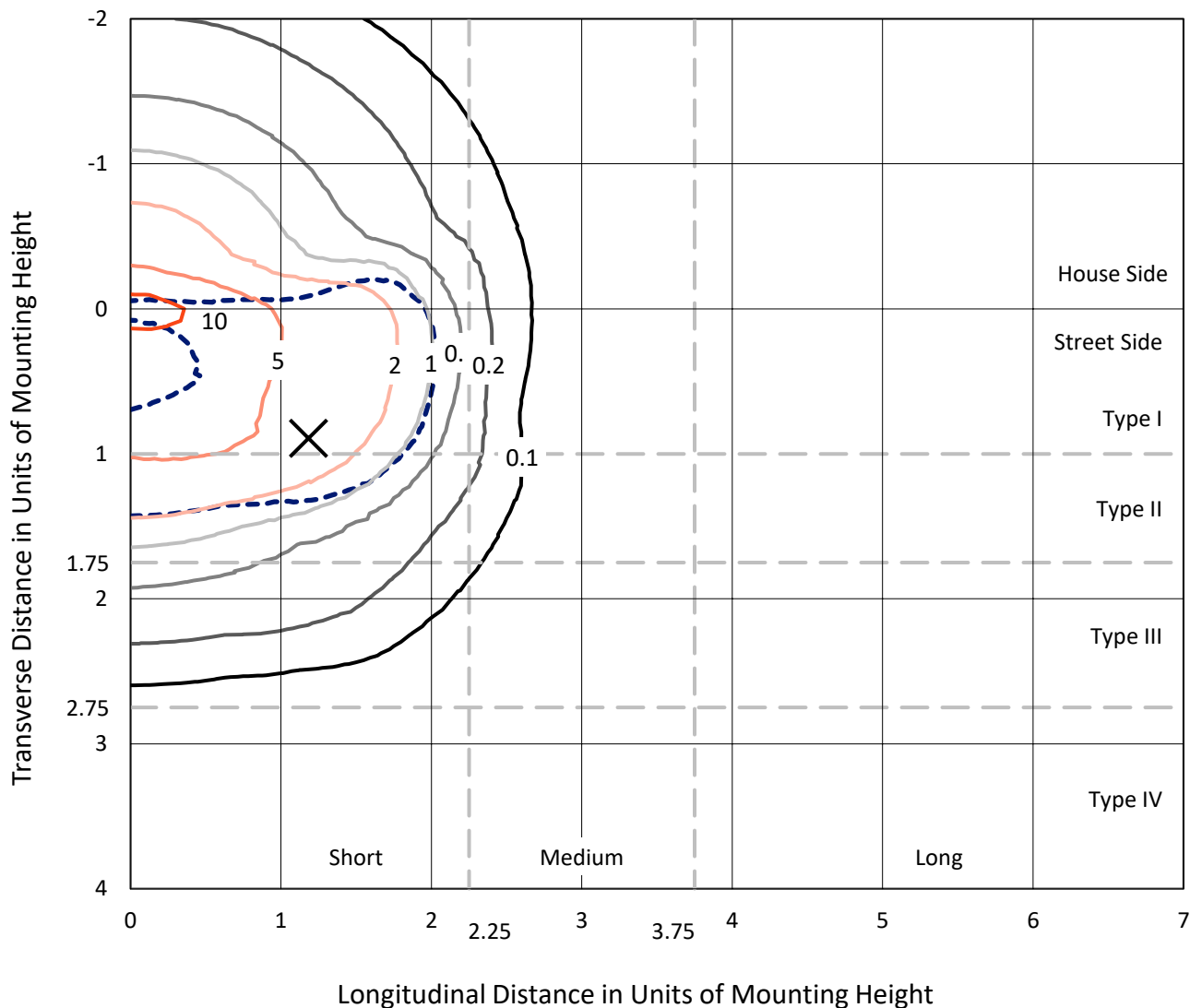
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530078
 CATALOG NUMBER: GALN-SA5B-735-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

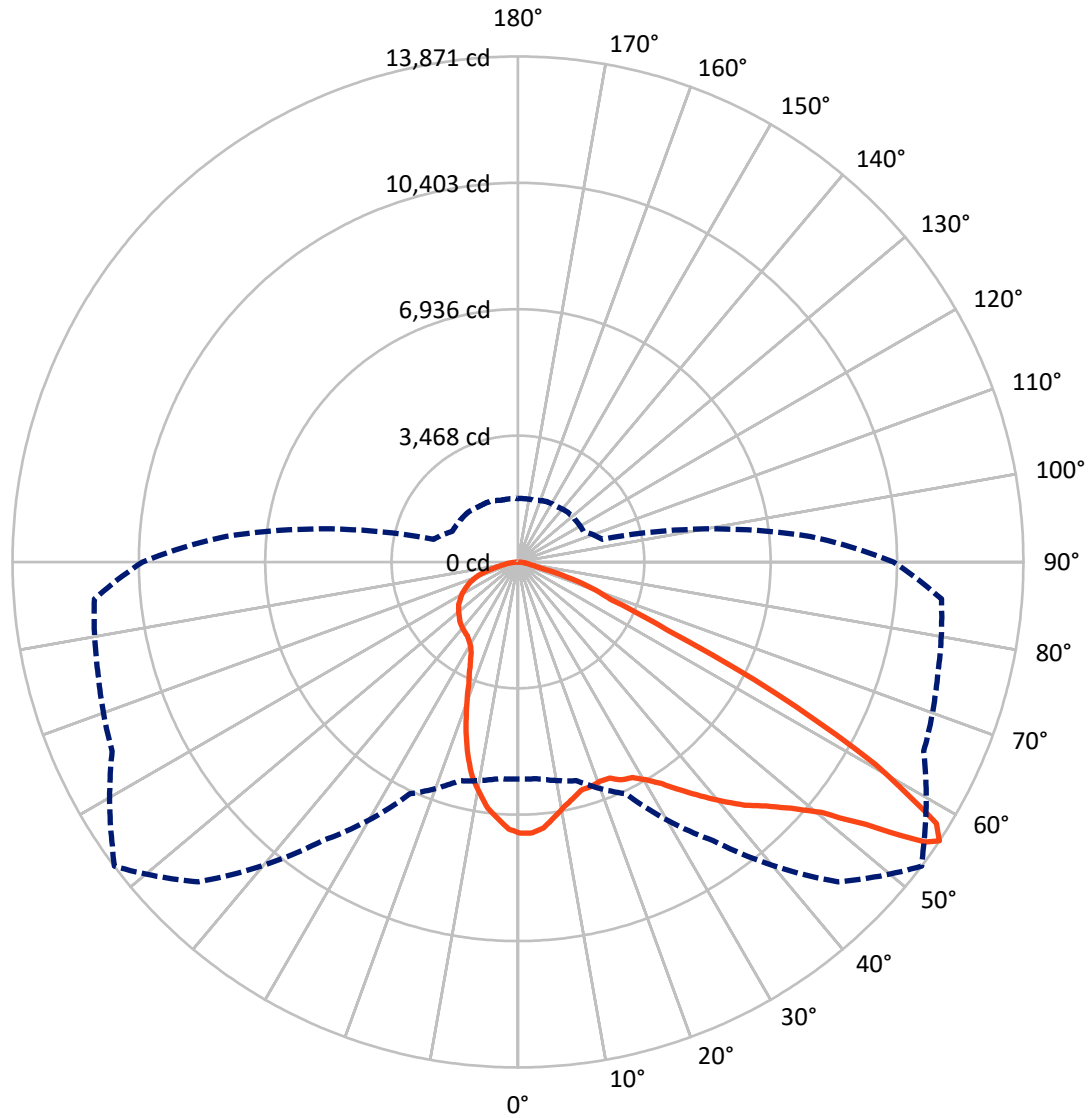
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Short - N/A

REPORT NUMBER: P530078
CATALOG NUMBER: GALN-SA5B-735-U-SL2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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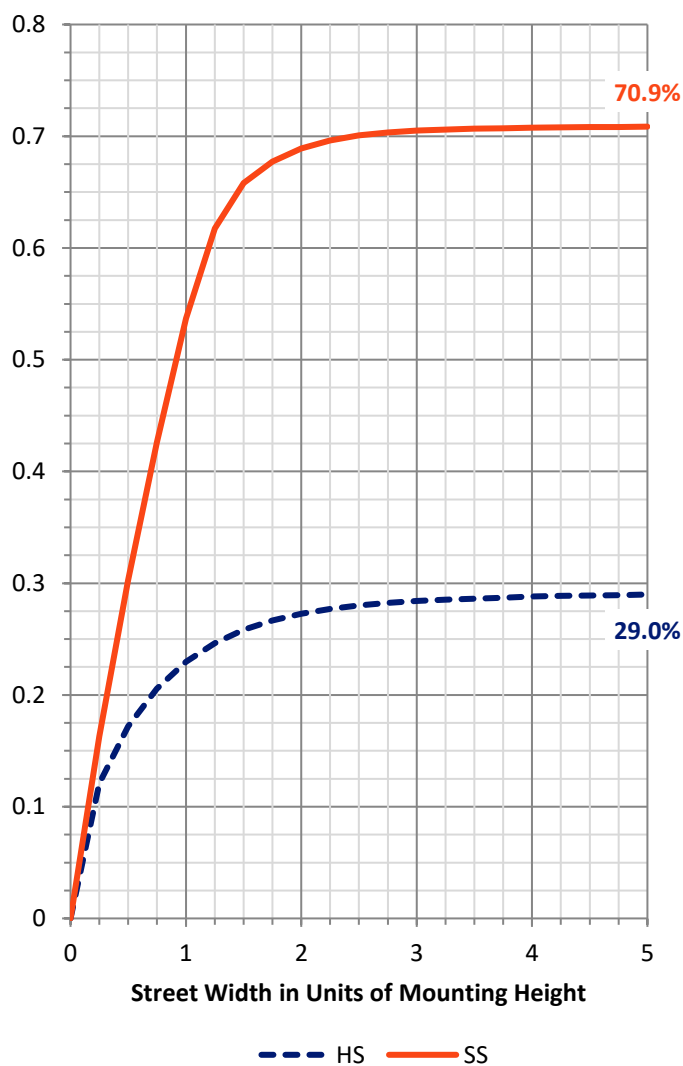
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6565.7	0.0	6565.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	15933.3	0.0	15933.3
	% Fixture	70.8	0.0	70.8
Total	Lumens	22499.0	0.0	22499.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	659.0	2.9
10°-20°	1645.8	7.3
20°-30°	2426.9	10.8
30°-40°	3467.6	15.4
40°-50°	4772.6	21.2
50°-60°	5640.0	25.1
60°-70°	3005.7	13.4
70°-80°	762.5	3.4
80°-90°	118.9	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°	22499.0	100.0
0°-180°	22499.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530078

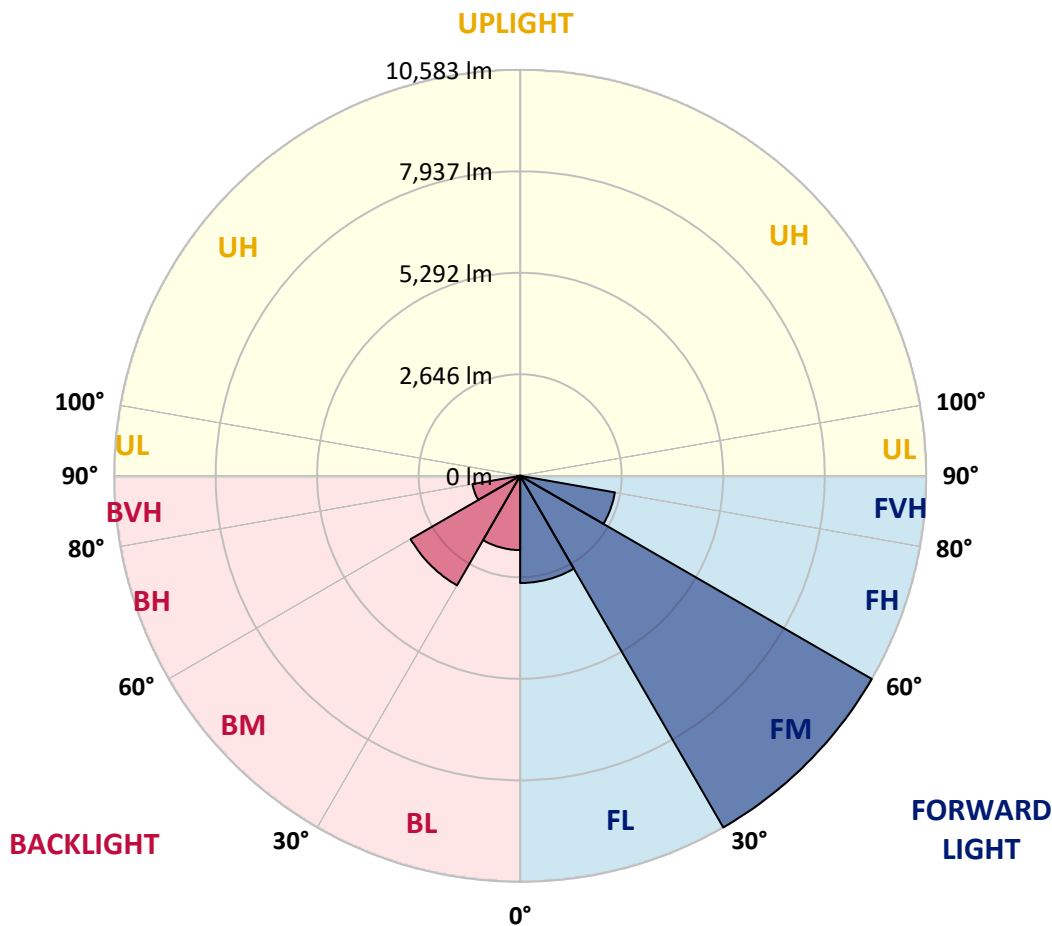
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2795.2	12.4			
FM (30°-60°)	10583.1	47.0			
FH (60°-80°)	2507.2	11.1			G2/5000
FVH (80°-90°)	47.8	0.2			G1/100
BL (0°-30°)	1936.5	8.6	B3/2500		
BM (30°-60°)	3297.1	14.7	B3/5000		
BH (60°-80°)	1261.0	5.6	B3/2500		G3/2500
BVH (80°-90°)	71.1	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





REPORT NUMBER: P530078

CATALOG NUMBER: GALN-SA5B-735-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	7443.6	7443.6	7443.6	7443.6	7443.6	7443.6	7443.6	7443.6	7443.6	7443.6	7443.6
2.5°	7351.2	7287.7	7325.2	7310.8	7429.1	7463.8	7446.4	7460.9	7527.3	7495.5	7429.1
5°	6869.2	6958.7	6976.0	7019.3	7088.6	7224.2	7331.0	7359.9	7391.6	7538.8	7524.4
7.5°	6430.5	6491.1	6459.4	6586.3	6736.4	6955.8	7085.7	7108.8	7400.3	7481.1	7541.7
10°	6153.4	6092.8	6237.1	6271.8	6442.0	6693.1	6849.0	6944.2	7209.8	7530.1	7567.7
12.5°	5896.5	5876.3	5962.9	6061.1	6251.5	6511.3	6670.0	6707.6	7117.4	7455.1	7631.2
15°	5706.1	5683.0	5769.5	5841.7	6063.9	6294.8	6496.9	6603.7	7016.4	7411.8	7576.3
17.5°	5556.0	5553.1	5602.1	5732.0	5960.0	6153.4	6479.6	6485.3	6964.4	7478.2	7622.5
20°	5547.3	5544.4	5553.1	5697.4	5905.2	6141.9	6424.7	6476.7	6964.4	7432.0	7625.4
22.5°	5619.5	5573.3	5625.2	5717.6	5867.7	6162.1	6444.9	6560.4	7131.8	7660.0	7755.3
25°	5734.9	5746.5	5775.3	5807.1	5893.7	6208.3	6623.9	6719.1	7328.1	7856.3	7934.2
27.5°	5945.6	5939.8	5951.4	5968.7	6043.7	6251.5	6696.0	6941.4	7738.0	8205.5	8127.6
30°	6254.4	6234.2	6280.4	6341.0	6271.8	6390.1	6935.6	7120.3	8118.9	8557.6	8344.1
32.5°	6534.4	6609.4	6696.0	6722.0	6638.3	6661.4	7253.1	7440.7	8436.4	8990.6	8609.6
35°	6883.6	6944.2	7059.7	7140.5	7126.1	7056.8	7686.0	7934.2	8895.3	9308.1	8889.6
37.5°	7224.2	7296.4	7486.8	7726.4	7593.6	7561.9	8147.8	8352.7	9036.7	9478.3	9094.5
40°	7772.6	7769.7	8098.7	8222.8	8341.2	8286.3	8626.9	8696.2	9111.8	9440.8	9100.2
42.5°	8416.2	8375.8	8710.6	8904.0	9057.0	9062.7	9126.2	9103.1	9146.4	9250.3	9039.6
45°	9028.1	9114.7	9452.4	9798.7	9951.7	9969.0	9547.6	9504.3	9207.0	9195.5	8924.2
47.5°	9775.6	9795.8	10072.9	10528.9	10883.9	10762.7	10093.1	9997.9	9472.6	9562.0	9117.6
50°	9818.9	9969.0	10217.2	10754.0	11845.0	11813.3	10800.2	10621.3	9899.7	10081.6	9657.3
52.5°	8912.6	8878.0	9172.4	10049.8	11772.9	12858.1	11972.0	11544.9	10817.5	10679.0	10531.8
55°	6791.3	6872.1	7131.8	8017.9	10223.0	12872.5	13568.1	13218.9	11798.9	11562.2	11391.9
56°	5957.2	5968.7	6214.0	7022.2	9328.3	12413.6	13871.2	13588.3	12286.6	11925.9	11666.1
57.5°	4938.3	4871.9	4998.9	5440.5	7873.6	11443.9	13539.2	13816.3	12858.1	12318.4	11957.6
60°	3887.7	3873.3	3821.4	3902.2	4975.8	8621.1	11270.7	11894.1	12800.4	11948.9	11452.5
62.5°	3174.8	3102.7	3206.6	3322.0	3457.7	5348.2	7919.8	8286.3	10162.4	9539.0	8603.8
65°	2461.9	2427.3	2557.2	2932.4	3013.2	3397.1	4511.2	4794.0	6000.4	5893.7	5189.4
67.5°	1694.2	1700.0	1812.5	2384.0	2793.9	2759.2	2762.1	2909.3	3131.5	2326.3	2026.1
70°	1073.7	1070.8	1131.4	1535.5	2248.4	2271.5	2156.0	2112.7	2003.0	1212.2	1284.4
72.5°	689.8	669.6	701.4	848.5	1163.1	1345.0	1385.4	1411.4	1160.3	952.5	1033.3
75°	389.6	369.4	357.9	395.4	458.9	531.1	583.0	600.3	672.5	721.6	764.8
77.5°	118.3	106.8	129.9	173.2	228.0	305.9	372.3	383.9	453.1	510.9	554.2
80°	52.0	57.7	80.8	115.4	161.6	216.5	262.6	280.0	326.1	369.4	381.0
82.5°	31.7	34.6	54.8	77.9	112.6	153.0	187.6	193.4	239.6	274.2	282.8
85°	11.5	14.4	28.9	46.2	72.2	98.1	98.1	106.8	98.1	98.1	106.8
87.5°	0.0	0.0	2.9	5.8	5.8	8.7	11.5	11.5	14.4	17.3	20.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P530078

CATALOG NUMBER: GALN-SA5B-735-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7443.6	7443.6	7443.6	7443.6	7443.6	7443.6	7443.6	7443.6	7443.6	7443.6	7443.6
2.5°	7463.8	7449.3	7426.2	7342.5	7333.9	7307.9	7163.6	7140.5	7163.6	7094.3	7100.1
5°	7449.3	7492.6	7319.4	7235.7	7079.9	6967.3	6837.5	6771.1	6652.7	6577.7	6661.4
7.5°	7512.8	7495.5	7279.0	7097.2	6863.4	6577.7	6349.7	6219.8	6012.0	5954.3	5997.6
10°	7489.7	7397.4	7143.4	6903.8	6462.2	6211.1	5841.7	5483.8	5287.6	5186.5	5172.1
12.5°	7458.0	7432.0	7007.7	6595.0	6130.3	5602.1	5082.6	4744.9	4424.6	4286.0	4306.2
15°	7495.5	7276.2	6753.7	6231.3	5613.7	4921.0	4361.1	3925.3	3703.0	3613.5	3613.5
17.5°	7478.2	7201.1	6632.5	5824.4	5042.2	4222.5	3607.8	3345.1	3252.8	3252.8	3278.7
20°	7486.8	7250.2	6387.2	5417.4	4366.8	3555.8	3108.5	3013.2	3053.6	3068.0	3082.5
22.5°	7535.9	7088.6	6147.6	4970.1	3740.5	3042.1	2822.7	2825.6	2897.8	2975.7	2961.3
25°	7596.5	7025.1	5856.1	4525.6	3261.4	2791.0	2721.7	2713.0	2767.9	2808.3	2814.1
27.5°	7544.6	6915.4	5558.9	3971.4	2868.9	2623.6	2609.1	2614.9	2632.2	2713.0	2687.1
30°	7714.9	6947.1	5186.5	3506.8	2652.4	2568.7	2551.4	2542.8	2568.7	2591.8	2571.6
32.5°	7925.6	6834.6	4909.5	3059.4	2545.6	2528.3	2493.7	2482.1	2496.6	2473.5	2485.0
35°	8017.9	6814.4	4548.7	2739.0	2461.9	2447.5	2427.3	2424.4	2427.3	2407.1	2389.8
37.5°	8069.9	6909.6	4136.0	2591.8	2410.0	2424.4	2378.2	2372.5	2320.5	2332.1	2340.7
40°	8159.3	6762.4	3801.1	2450.4	2378.2	2349.4	2309.0	2300.3	2265.7	2245.5	2265.7
42.5°	8029.5	6719.1	3472.1	2389.8	2332.1	2300.3	2271.5	2222.4	2210.8	2193.5	2182.0
45°	7925.6	6470.9	3177.7	2314.7	2277.2	2259.9	2205.1	2153.1	2109.8	2127.1	2101.2
47.5°	8003.5	6384.3	2886.2	2251.2	2202.2	2182.0	2127.1	2086.7	2043.4	2023.2	2017.5
50°	8315.2	6545.9	2640.9	2205.1	2138.7	2127.1	2055.0	2008.8	1968.4	1954.0	1959.7
52.5°	9059.8	6987.5	2473.5	2109.8	2078.1	2026.1	1985.7	1928.0	1902.0	1855.8	1884.7
55°	10003.6	7706.2	2430.2	2020.4	2003.0	1956.9	1902.0	1858.7	1809.7	1772.1	1763.5
56°	10306.7	8049.7	2395.6	1985.7	1956.9	1930.9	1858.7	1832.7	1754.8	1746.2	1740.4
57.5°	10552.0	8352.7	2401.3	1919.3	1890.5	1867.4	1824.1	1760.6	1708.6	1676.9	1691.3
60°	9997.9	7818.8	2291.7	1818.3	1812.5	1769.3	1708.6	1679.8	1616.3	1578.8	1570.1
62.5°	7432.0	5307.8	1858.7	1688.4	1685.6	1639.4	1570.1	1538.4	1526.8	1474.9	1474.9
65°	4280.3	3327.8	1607.6	1581.6	1558.6	1512.4	1443.1	1417.1	1388.3	1371.0	1356.5
67.5°	1827.0	1726.0	1460.4	1457.5	1431.6	1373.8	1304.6	1264.2	1226.6	1192.0	1209.3
70°	1324.8	1345.0	1319.0	1304.6	1272.8	1200.7	1140.1	1091.0	1033.3	1010.2	1027.5
72.5°	1050.6	1093.9	1131.4	1134.3	1096.8	1013.1	946.7	880.3	816.8	785.1	799.5
75°	796.6	825.5	863.0	871.6	816.8	759.1	695.6	626.3	577.2	539.7	545.5
77.5°	574.4	568.6	603.2	597.4	571.5	531.1	473.3	409.8	355.0	320.4	323.3
80°	392.5	401.2	421.4	418.5	386.8	360.8	317.5	265.5	225.1	196.3	190.5
82.5°	274.2	288.6	305.9	291.5	265.5	239.6	207.8	170.3	138.5	115.4	109.7
85°	98.1	112.6	129.9	138.5	147.2	141.4	118.3	95.2	69.3	57.7	54.8
87.5°	20.2	23.1	26.0	26.0	26.0	23.1	20.2	20.2	17.3	8.7	8.7
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)