

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P637224

Luminaire Tested: GWS-SA4C-735-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637224
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4C-735-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (64) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15962.1 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

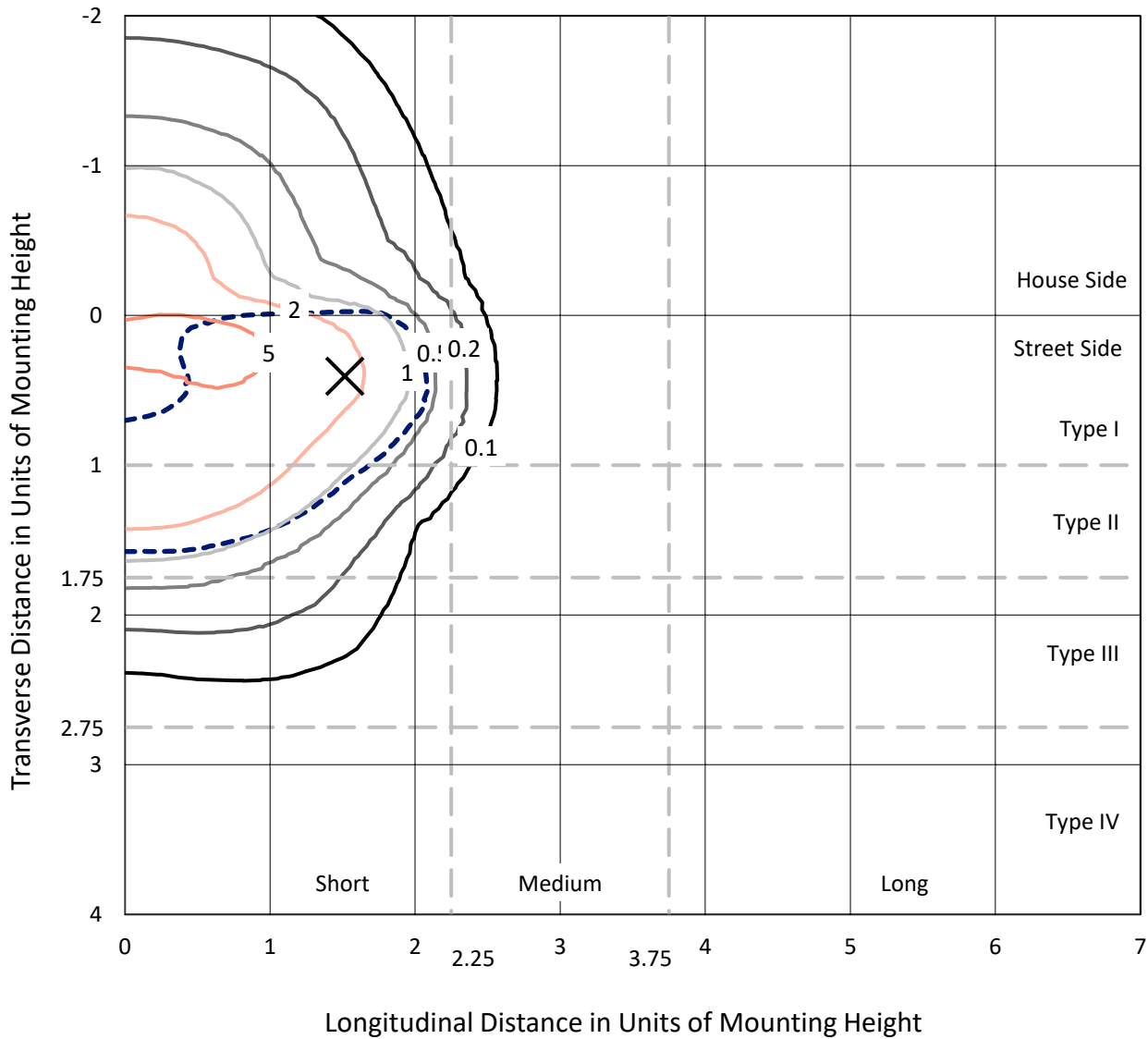
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637224
 CATALOG NUMBER: GWS-SA4C-735-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

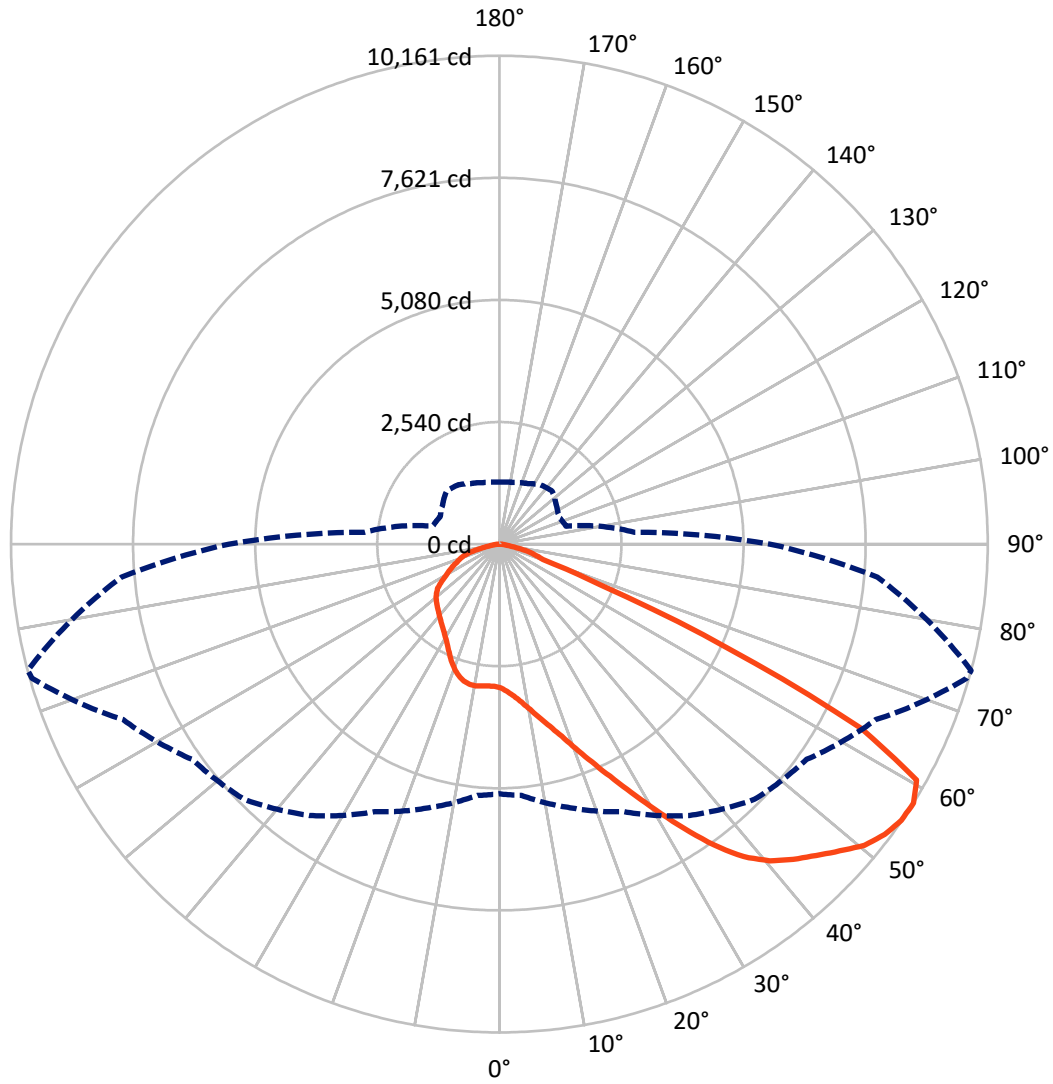
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

REPORT NUMBER: P637224
CATALOG NUMBER: GWS-SA4C-735-U-T2-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P637224

CATALOG NUMBER: GWS-SA4C-735-U-T2-W-GRSWH

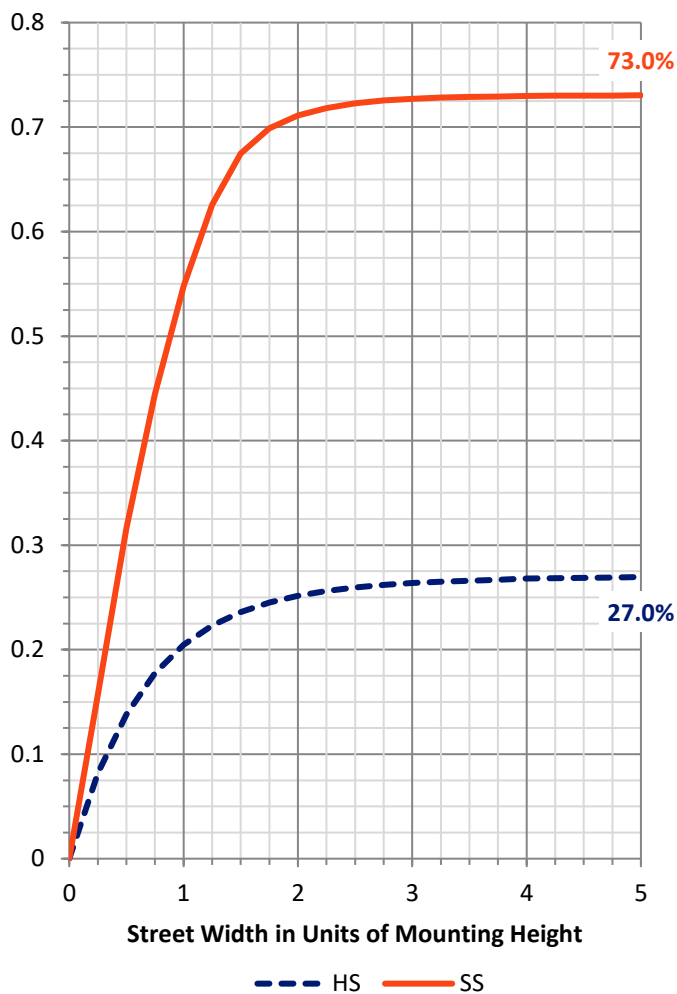
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4318.1	0.0	4318.1
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	11644.0	0.0	11644.0
	% Fixture	72.9	0.0	72.9
Total	Lumens	15962.1	0.0	15962.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	299.1	1.9
10°-20°	952.4	6.0
20°-30°	1689.1	10.6
30°-40°	2585.7	16.2
40°-50°	3600.3	22.6
50°-60°	4125.3	25.8
60°-70°	2119.6	13.3
70°-80°	533.6	3.3
80°-90°	57.0	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°	15962.1	100.0
0°-180°	15962.1	100.0

Coefficient of Utilization



REPORT NUMBER: P637224

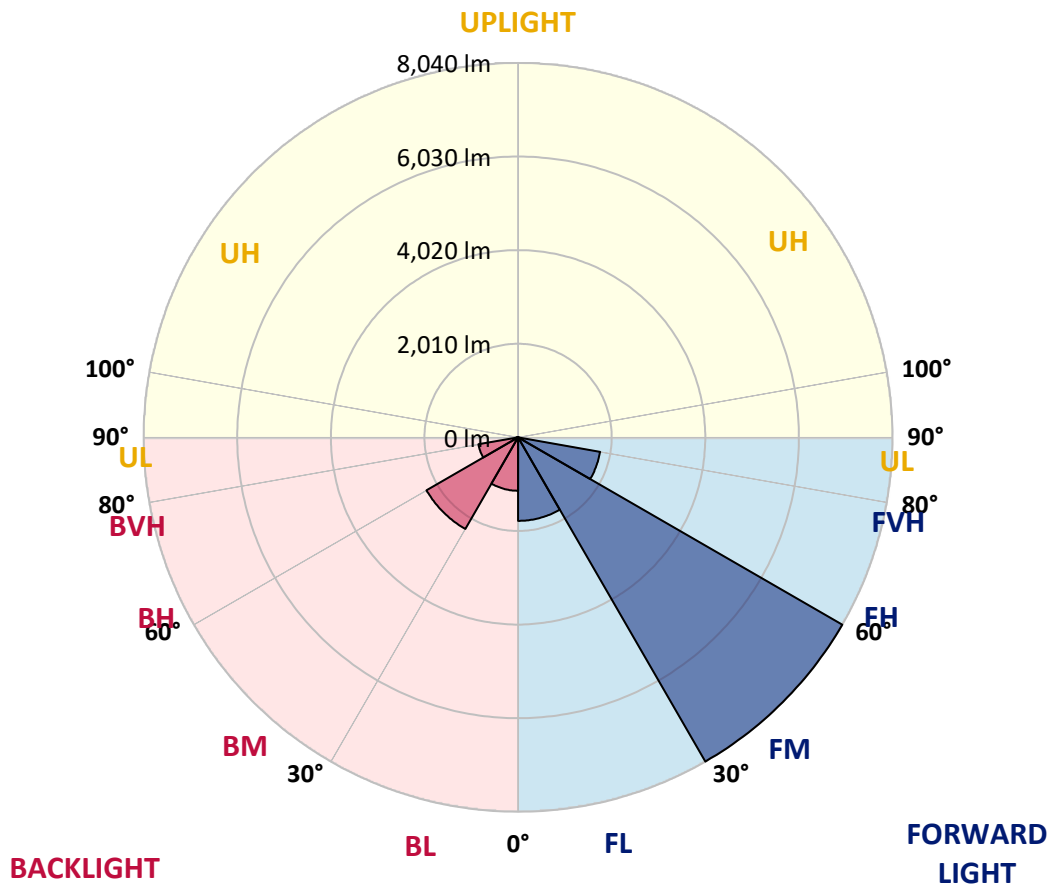
CATALOG NUMBER: GWS-SA4C-735-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1793.4	11.2			
FM (30°-60°)	8040.3	50.4			
FH (60°-80°)	1789.2	11.2			G1/1800
FVH (80°-90°)	21.1	0.1			G1/100
BL (0°-30°)	1147.1	7.2	B3/2500		
BM (30°-60°)	2270.9	14.2	B2/2500		
BH (60°-80°)	864.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	35.9	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





REPORT NUMBER: P637224

CATALOG NUMBER: GWS-SA4C-735-U-T2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3
2.5°	3211.7	3219.9	3211.7	3225.4	3197.9	3185.6	3155.4	3110.1	3074.4	3068.9	3029.1
5°	3461.5	3479.3	3468.3	3462.8	3425.8	3398.3	3353.0	3262.4	3188.3	3177.4	3099.1
7.5°	3622.0	3634.4	3634.4	3638.5	3624.8	3593.2	3545.2	3438.1	3333.8	3317.3	3199.3
10°	3675.6	3685.2	3703.0	3737.3	3764.8	3774.4	3742.8	3639.9	3512.2	3495.8	3331.1
12.5°	3687.9	3698.9	3726.4	3789.5	3865.0	3933.6	3939.1	3863.6	3720.9	3703.0	3483.4
15°	3711.3	3722.2	3759.3	3837.5	3948.7	4080.5	4161.4	4109.3	3951.4	3932.2	3656.4
17.5°	3708.5	3720.9	3775.8	3880.1	4029.7	4220.5	4376.9	4398.9	4235.6	4202.6	3852.6
20°	3701.6	3712.6	3771.6	3899.3	4084.6	4346.7	4629.5	4743.4	4567.7	4537.5	4081.8
22.5°	3756.5	3768.9	3814.2	3919.9	4113.4	4444.2	4862.8	5137.3	4961.6	4919.1	4345.4
25°	3880.1	3897.9	3925.4	3998.1	4165.6	4530.6	5101.6	5583.4	5403.6	5352.8	4632.2
27.5°	4070.9	4092.8	4131.2	4165.6	4282.2	4640.4	5339.0	6082.9	5903.1	5849.6	4935.5
30°	4304.2	4333.0	4382.4	4405.7	4485.3	4802.4	5597.1	6597.6	6493.3	6419.2	5277.3
32.5°	4626.7	4666.5	4713.2	4720.0	4768.1	5048.1	5852.4	7108.2	7106.8	7054.7	5665.7
35°	5046.7	5089.3	5098.9	5108.5	5131.8	5385.7	6161.2	7573.5	7753.3	7692.9	6088.4
37.5°	5505.1	5566.9	5582.0	5539.4	5572.4	5792.0	6508.4	7946.8	8316.0	8251.5	6497.4
40°	5995.1	6019.8	6061.0	5993.7	6034.9	6257.3	6848.8	8185.6	8736.0	8667.4	6820.0
42.5°	6346.5	6391.8	6453.5	6428.8	6452.2	6655.3	7087.6	8300.9	9035.2	8966.6	7051.9
45°	6728.0	6741.7	6781.6	6776.1	6789.8	6979.2	7259.2	8351.7	9302.8	9241.1	7249.6
47.5°	7060.2	7080.8	7106.8	7076.6	7046.4	7170.0	7399.2	8395.6	9611.7	9537.5	7456.8
50°	7380.0	7397.8	7429.4	7341.5	7229.0	7260.6	7467.8	8456.0	9901.3	9849.1	7620.2
52.5°	7439.0	7458.2	7606.4	7624.3	7480.2	7369.0	7588.6	8589.1	10071.4	10038.5	7679.2
55°	6696.5	6730.8	7025.9	7364.9	7720.3	7684.7	7782.1	8659.1	10138.7	10146.9	7784.9
57.5°	5197.7	5247.1	5678.1	6143.3	6891.4	7510.4	7806.8	8641.3	10115.4	10160.7	7893.3
60°	3409.3	3438.1	3948.7	4470.3	5245.7	6102.2	6987.4	8320.1	9908.1	9972.6	7865.8
62.5°	2058.8	2091.7	2502.1	2897.4	3354.4	3926.7	4739.3	6686.8	8305.0	8449.1	6299.8
65°	1437.0	1480.9	1840.5	2165.8	2323.7	2205.6	2400.5	3734.6	5174.3	5234.7	3849.9
67.5°	1041.7	1071.9	1367.0	1754.1	1928.4	1557.8	1187.2	1653.9	2253.7	2275.6	1588.0
70°	682.1	716.4	984.1	1335.4	1574.3	1262.7	888.0	894.9	948.4	959.4	922.3
72.5°	374.7	395.3	608.0	886.6	930.6	754.9	693.1	743.9	781.0	781.0	790.6
75°	193.5	211.4	248.4	292.3	352.7	413.1	499.6	575.1	614.9	617.6	613.5
77.5°	98.8	105.7	133.1	144.1	157.8	183.9	238.8	306.1	341.8	355.5	352.7
80°	46.7	49.4	56.3	65.9	81.0	102.9	129.0	153.7	175.7	178.4	193.5
82.5°	24.7	27.5	30.2	35.7	43.9	54.9	75.5	90.6	104.3	107.1	119.4
85°	9.6	11.0	12.4	13.7	19.2	23.3	31.6	42.5	52.2	52.2	61.8
87.5°	0.0	0.0	0.0	0.0	1.4	2.7	5.5	6.9	9.6	9.6	16.5
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: P637224

CATALOG NUMBER: GWS-SA4C-735-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3	2989.3
2.5°	3019.5	2979.7	2961.9	2933.0	2909.7	2883.6	2863.0	2848.0	2838.3	2832.9	2827.4
5°	3068.9	3008.5	2960.5	2902.9	2863.0	2824.6	2793.0	2771.1	2760.1	2751.9	2746.4
7.5°	3145.8	3064.8	2974.2	2885.0	2815.0	2753.2	2713.4	2690.1	2675.0	2669.5	2665.4
10°	3251.5	3138.9	2989.3	2848.0	2743.6	2676.4	2648.9	2638.0	2639.3	2636.6	2635.2
12.5°	3370.9	3217.2	2985.2	2782.1	2666.8	2627.0	2628.3	2646.2	2666.8	2672.3	2673.6
15°	3499.9	3294.0	2945.4	2697.0	2606.4	2610.5	2646.2	2688.7	2727.2	2742.3	2745.0
17.5°	3639.9	3358.5	2872.7	2603.6	2557.0	2600.9	2666.8	2736.8	2793.0	2817.8	2824.6
20°	3796.4	3413.4	2769.7	2511.7	2510.3	2583.1	2679.1	2771.1	2842.5	2875.4	2880.9
22.5°	3962.4	3447.7	2643.4	2426.6	2462.3	2559.7	2669.5	2765.6	2841.1	2874.0	2880.9
25°	4129.9	3458.7	2504.8	2348.4	2412.9	2522.7	2622.9	2699.7	2771.1	2799.9	2805.4
27.5°	4286.3	3427.1	2373.1	2281.1	2367.6	2467.8	2535.0	2576.2	2625.6	2647.6	2651.7
30°	4445.5	3364.0	2261.9	2227.6	2316.8	2392.3	2422.5	2425.2	2444.4	2444.4	2447.2
32.5°	4606.1	3270.7	2164.4	2175.4	2253.7	2303.1	2307.2	2275.6	2252.3	2213.9	2212.5
35°	4791.4	3176.0	2084.8	2116.4	2179.5	2209.7	2197.4	2137.0	2080.7	2017.6	2014.8
37.5°	4963.0	3078.5	2017.6	2056.0	2095.8	2117.8	2089.0	2016.2	1969.5	1905.0	1895.4
40°	5104.3	2990.7	1953.1	1992.9	2012.1	2031.3	1984.6	1925.6	1932.5	1896.8	1895.4
42.5°	5186.7	2905.6	1892.7	1922.9	1935.2	1949.0	1907.8	1863.9	1900.9	1873.5	1874.8
45°	5247.1	2831.5	1837.8	1848.8	1879.0	1899.5	1861.1	1811.7	1819.9	1714.3	1689.6
47.5°	5315.7	2790.3	1785.6	1774.7	1828.2	1863.9	1804.8	1733.5	1684.1	1579.8	1570.1
50°	5388.5	2775.2	1730.7	1700.5	1765.0	1799.4	1730.7	1641.5	1577.0	1520.7	1515.2
52.5°	5413.2	2773.8	1662.1	1611.3	1675.8	1723.9	1666.2	1575.6	1498.8	1443.9	1441.1
55°	5510.6	2813.6	1574.3	1489.2	1549.6	1648.4	1605.8	1475.4	1413.7	1389.0	1386.2
57.5°	5624.5	2820.5	1435.6	1356.0	1439.8	1556.4	1502.9	1390.3	1323.1	1292.9	1290.2
60°	5577.9	2651.7	1287.4	1254.5	1346.4	1470.0	1420.5	1323.1	1244.9	1216.0	1213.3
62.5°	4250.7	1872.1	1179.0	1166.6	1246.2	1345.1	1335.4	1233.9	1159.8	1139.2	1136.4
65°	2557.0	1314.9	1074.7	1073.3	1129.6	1224.3	1236.6	1154.3	1076.0	1047.2	1047.2
67.5°	1264.1	1006.0	956.6	949.8	985.5	1052.7	1104.9	1037.6	971.7	944.3	940.2
70°	893.5	886.6	870.2	851.0	857.8	885.3	907.2	851.0	781.0	753.5	748.0
72.5°	772.7	774.1	763.1	748.0	742.5	723.3	704.1	662.9	620.4	591.6	594.3
75°	599.8	602.5	609.4	603.9	588.8	568.2	547.6	495.5	461.2	433.7	428.2
77.5°	350.0	363.7	385.7	380.2	382.9	354.1	345.9	295.1	263.5	244.3	240.2
80°	197.6	205.9	215.5	222.3	214.1	201.8	183.9	156.5	146.9	133.1	130.4
82.5°	119.4	127.6	131.8	137.3	134.5	118.0	104.3	86.5	78.2	71.4	70.0
85°	60.4	65.9	70.0	72.7	64.5	53.5	48.0	38.4	32.9	28.8	28.8
87.5°	15.1	16.5	19.2	16.5	15.1	6.9	5.5	1.4	0.0	0.0	0.0
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)