

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: P633276

Luminaire Tested: GWS-SA2E-735-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633276
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2E-735-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12617.1 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 108.2
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

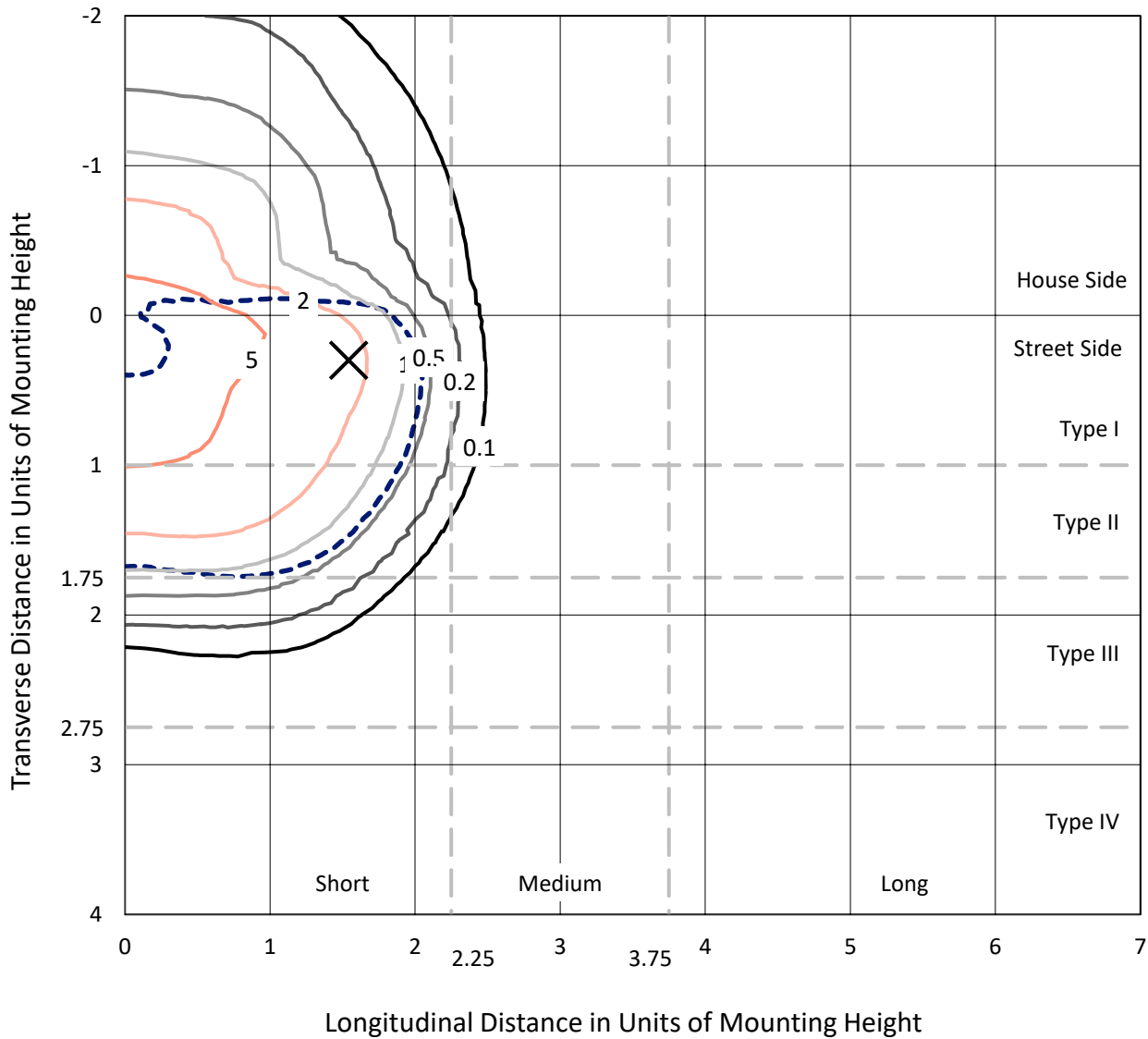


REPORT NUMBER: P633276

CATALOG NUMBER: GWS-SA2E-735-U-T3R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

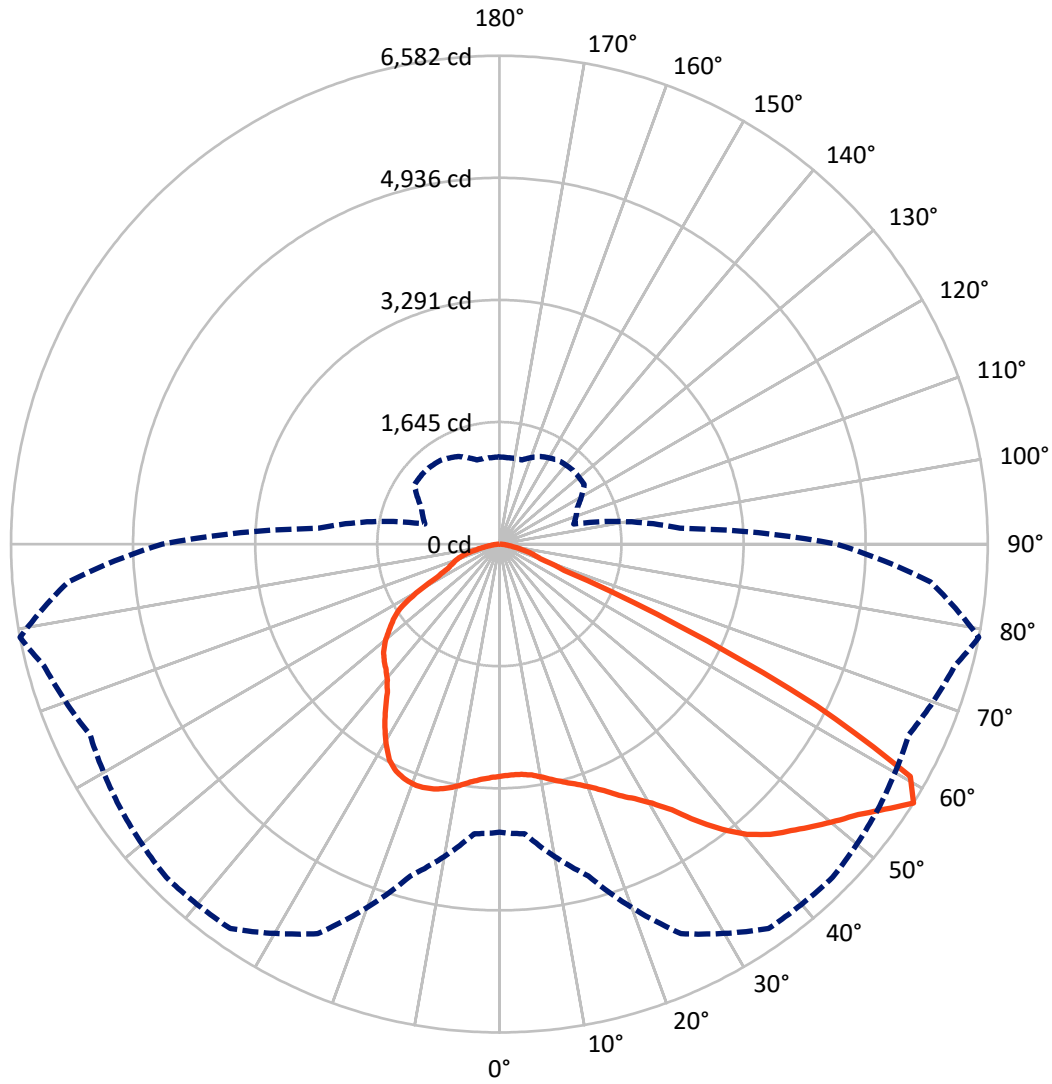
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

REPORT NUMBER: P633276
CATALOG NUMBER: GWS-SA2E-735-U-T3R-W-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P633276

CATALOG NUMBER: GWS-SA2E-735-U-T3R-W-GRSWH

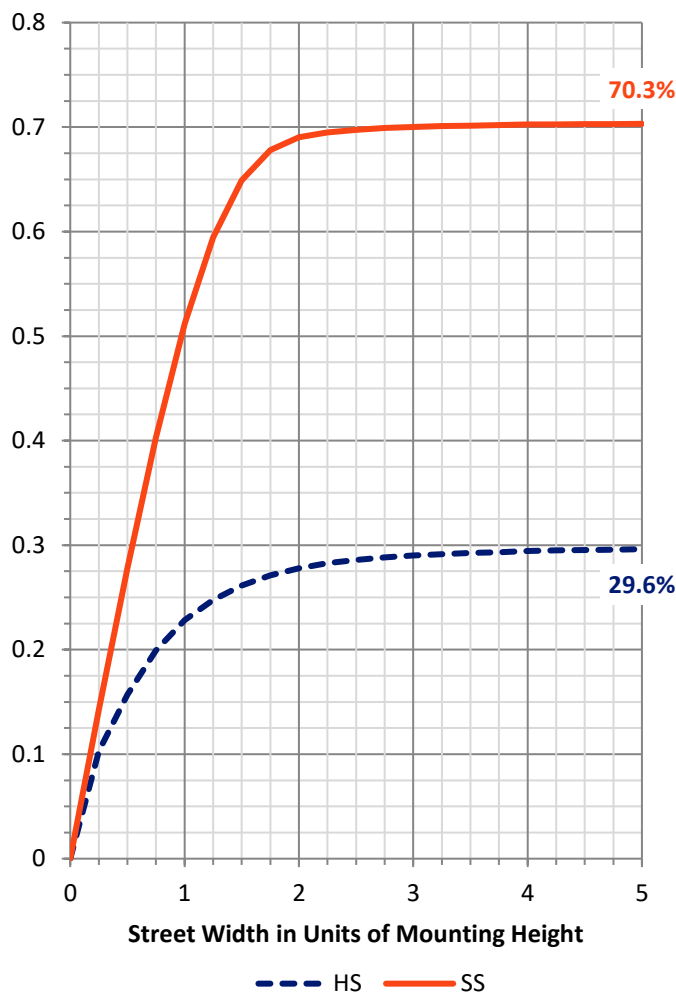
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3750.5	0.0	3750.5
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	8866.6	0.0	8866.6
	% Fixture	70.3	0.0	70.3
Total	Lumens	12617.1	0.0	12617.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.6	2.3
10°-20°	804.7	6.4
20°-30°	1364.0	10.8
30°-40°	2087.8	16.5
40°-50°	2783.9	22.1
50°-60°	3215.2	25.5
60°-70°	1670.7	13.2
70°-80°	355.2	2.8
80°-90°	46.0	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°	12617.1	100.0
0°-180°	12617.1	100.0

Coefficient of Utilization



REPORT NUMBER: P633276

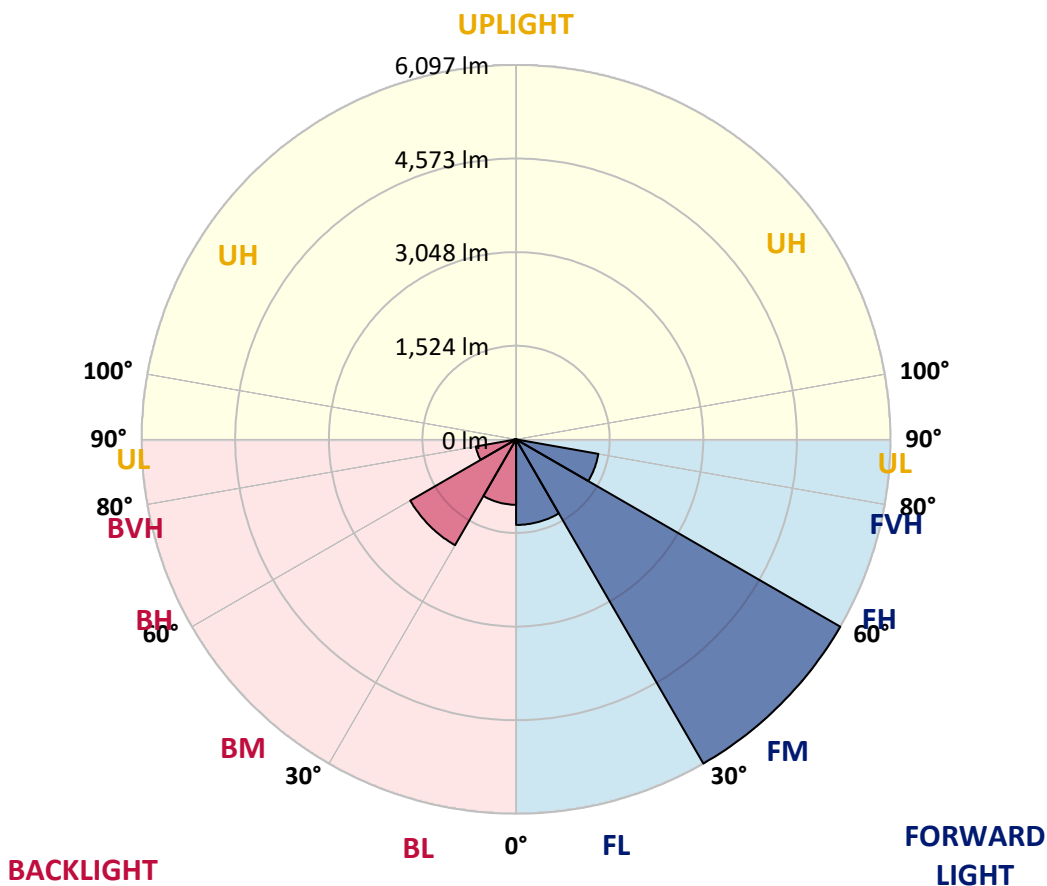
CATALOG NUMBER: GWS-SA2E-735-U-T3R-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1393.2	11.0			
FM (30°-60°)	6096.9	48.3			
FH (60°-80°)	1360.4	10.8			G1/1800
FVH (80°-90°)	16.0	0.1			G1/100
BL (0°-30°)	1065.1	8.4	B3/2500		
BM (30°-60°)	1990.0	15.8	B2/2500		
BH (60°-80°)	665.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	30.0	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: P633276

CATALOG NUMBER: GWS-SA2E-735-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3126.8	3126.8	3126.8	3126.8	3126.8	3126.8	3126.8	3126.8	3126.8	3126.8	3126.8
2.5°	2984.4	2978.3	2980.3	2988.6	3019.5	3042.2	3065.9	3087.6	3108.2	3114.4	3119.6
5°	2878.2	2866.8	2869.9	2883.3	2919.5	2957.6	2999.9	3051.5	3101.0	3117.5	3139.2
7.5°	2802.9	2800.8	2806.0	2826.6	2864.8	2900.9	2955.6	3028.8	3114.4	3142.3	3180.5
10°	2702.8	2698.7	2719.3	2761.6	2824.5	2882.3	2947.3	3034.0	3153.6	3194.9	3253.7
12.5°	2623.4	2621.3	2643.0	2701.8	2782.3	2874.1	2963.8	3060.8	3206.2	3263.0	3335.2
15°	2669.8	2660.5	2661.6	2702.8	2775.0	2883.3	3005.1	3109.3	3258.9	3331.1	3423.9
17.5°	2804.9	2788.4	2776.1	2783.3	2824.5	2937.0	3068.0	3174.3	3319.7	3404.3	3517.8
20°	2991.7	2982.4	2948.3	2925.6	2934.9	3034.0	3167.0	3266.1	3399.2	3494.1	3615.8
22.5°	3242.3	3219.7	3173.2	3137.1	3109.3	3186.6	3309.4	3395.0	3509.5	3608.6	3735.5
25°	3552.9	3519.9	3446.6	3389.9	3330.0	3409.5	3518.8	3583.8	3661.2	3753.0	3873.7
27.5°	3869.6	3841.7	3760.2	3683.9	3609.6	3659.1	3789.1	3826.2	3818.0	3885.0	3988.2
30°	4206.9	4171.8	4094.5	4011.9	3916.0	3948.0	4064.5	4083.1	3995.4	4051.1	4121.3
32.5°	4562.8	4528.8	4461.7	4365.8	4257.5	4269.8	4301.8	4319.3	4235.8	4267.8	4321.4
35°	4924.9	4892.9	4824.8	4729.9	4650.5	4575.2	4494.7	4564.9	4516.4	4578.3	4574.2
37.5°	5256.1	5224.1	5181.8	5108.5	4972.4	4823.8	4638.1	4724.8	4800.1	4878.5	4865.1
40°	5479.9	5458.2	5468.6	5457.2	5281.8	4987.8	4708.3	4803.2	5008.5	5142.6	5135.4
42.5°	5672.8	5651.2	5711.0	5754.3	5548.0	5139.5	4742.3	4833.1	5141.5	5351.0	5340.6
45°	5758.4	5752.3	5851.3	5988.5	5791.5	5300.4	4830.0	4895.0	5242.6	5510.9	5471.7
47.5°	5656.3	5678.0	5873.0	6105.1	5993.7	5491.3	5009.5	5026.0	5374.7	5684.2	5573.8
50°	5453.1	5500.5	5763.6	6108.2	6141.2	5706.9	5258.1	5216.9	5552.1	5868.8	5627.4
52.5°	5157.0	5206.5	5635.7	6084.4	6225.8	5956.5	5589.3	5530.5	5776.0	6053.5	5636.7
55°	4477.2	4544.2	5342.7	6030.8	6308.3	6183.5	5962.7	5843.0	6064.8	6307.3	5728.5
57.5°	3884.0	3919.1	4628.8	5792.5	6324.8	6350.6	6228.9	6086.5	6351.6	6581.7	5831.7
60°	2850.3	2858.6	3497.2	4792.9	5818.3	6253.6	6207.2	5995.7	6215.4	6361.9	5359.2
62.5°	1610.3	1611.4	2121.0	3199.0	4346.2	5097.2	5126.1	4939.3	4754.7	4798.0	3730.3
65°	604.5	661.3	968.7	1572.2	2505.8	3009.2	3128.9	3172.2	2864.8	2673.9	2000.3
67.5°	404.4	417.8	565.3	808.8	1115.2	1287.4	1440.1	1444.3	1056.4	941.9	788.1
70°	308.5	321.9	444.6	578.7	565.3	522.0	564.3	548.8	567.4	582.9	599.4
72.5°	230.0	243.5	344.6	408.5	339.4	334.2	378.6	420.9	460.1	476.6	502.4
75°	152.7	163.0	232.1	218.7	187.8	221.8	276.5	318.8	341.5	361.1	380.7
77.5°	97.0	104.2	123.8	100.1	104.2	130.0	160.9	199.1	220.8	240.4	250.7
80°	44.4	43.3	42.3	47.5	58.8	76.3	97.0	119.7	136.2	144.4	150.6
82.5°	17.5	19.6	21.7	25.8	32.0	41.3	54.7	70.1	83.6	85.6	90.8
85°	7.2	8.3	9.3	11.3	14.4	18.6	22.7	32.0	40.2	43.3	46.4
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	3.1	5.2	9.3	10.3	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



REPORT NUMBER: P633276

CATALOG NUMBER: GWS-SA2E-735-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3126.8	3126.8	3126.8	3126.8	3126.8	3126.8	3126.8	3126.8	3126.8	3126.8	3126.8
2.5°	3147.4	3134.0	3156.7	3172.2	3186.6	3171.2	3166.0	3152.6	3150.5	3150.5	3157.8
5°	3176.3	3167.0	3190.8	3200.1	3199.0	3165.0	3144.3	3117.5	3104.1	3104.1	3106.2
7.5°	3227.9	3222.7	3236.2	3221.7	3188.7	3119.6	3051.5	2994.8	2956.6	2937.0	2943.2
10°	3313.5	3307.3	3296.0	3242.3	3147.4	3004.0	2864.8	2761.6	2699.7	2664.6	2666.7
12.5°	3397.1	3386.8	3346.5	3227.9	3032.9	2804.9	2622.4	2506.8	2438.7	2397.5	2388.2
15°	3488.9	3462.1	3375.4	3153.6	2846.2	2561.5	2370.6	2245.8	2172.6	2147.8	2146.8
17.5°	3576.6	3529.1	3372.3	3021.6	2622.4	2306.7	2114.8	2037.4	2025.0	2036.4	2039.5
20°	3665.3	3589.0	3338.3	2839.0	2356.2	2052.9	1953.9	1985.8	2032.3	2063.2	2070.4
22.5°	3757.1	3638.5	3260.9	2603.8	2075.6	1881.7	1922.9	1993.1	2050.8	2092.1	2096.2
25°	3860.3	3684.9	3145.4	2316.0	1850.7	1834.2	1915.7	1990.0	2051.9	2099.3	2107.6
27.5°	3919.1	3685.9	2983.4	2019.9	1747.5	1815.6	1898.2	1968.3	2030.2	2081.8	2091.1
30°	3976.9	3658.1	2726.5	1779.5	1717.6	1794.0	1868.2	1933.2	1992.0	2042.6	2053.9
32.5°	4058.4	3632.3	2430.5	1641.3	1700.1	1773.3	1834.2	1892.0	1937.4	1960.1	1966.2
35°	4159.5	3599.3	2115.8	1581.5	1688.7	1756.8	1810.5	1841.4	1782.6	1770.2	1783.7
37.5°	4300.8	3568.3	1802.2	1555.7	1681.5	1750.6	1798.1	1718.7	1646.4	1617.6	1627.9
40°	4453.5	3550.8	1589.7	1535.0	1684.6	1756.8	1746.5	1628.9	1524.7	1463.9	1461.8
42.5°	4583.4	3524.0	1453.5	1521.6	1692.9	1780.6	1676.4	1549.5	1394.7	1358.6	1359.7
45°	4671.1	3455.9	1381.3	1507.2	1700.1	1785.7	1643.4	1440.1	1329.7	1307.0	1306.0
47.5°	4707.2	3332.1	1334.9	1484.5	1699.1	1743.4	1576.3	1394.7	1284.4	1278.2	1282.3
50°	4683.5	3128.9	1287.4	1440.1	1674.3	1699.1	1498.9	1354.5	1253.4	1287.4	1312.2
52.5°	4595.8	2865.8	1230.7	1379.3	1629.9	1648.5	1459.7	1329.7	1230.7	1276.1	1295.7
55°	4573.1	2652.3	1158.5	1299.8	1563.9	1558.8	1418.5	1317.4	1215.2	1197.7	1200.8
57.5°	4543.2	2443.9	1038.8	1157.5	1396.8	1405.1	1379.3	1302.9	1175.0	1169.8	1175.0
60°	3946.9	1873.4	926.4	998.6	1147.2	1191.5	1334.9	1276.1	1110.0	1088.3	1087.3
62.5°	2578.0	1134.8	824.3	870.7	934.6	986.2	1217.3	1198.7	1038.8	1025.4	1034.7
65°	1386.5	808.8	750.0	777.8	812.9	852.1	1008.9	1067.7	938.8	891.3	892.3
67.5°	708.7	688.1	694.3	713.9	740.7	760.3	813.9	865.5	800.5	760.3	759.3
70°	606.6	623.1	632.4	643.7	661.3	658.2	663.3	672.6	667.5	647.9	646.8
72.5°	516.8	542.6	544.7	546.8	552.9	538.5	529.2	513.7	514.8	517.9	518.9
75°	393.0	417.8	424.0	420.9	427.1	408.5	396.1	380.7	362.1	359.0	361.1
77.5°	255.8	275.4	284.7	282.7	285.8	271.3	265.1	248.6	227.0	218.7	218.7
80°	154.7	166.1	173.3	175.4	178.5	168.2	157.8	143.4	134.1	124.8	124.8
82.5°	93.9	101.1	106.3	106.3	109.4	98.0	89.8	79.4	75.3	67.1	67.1
85°	47.5	52.6	54.7	53.6	51.6	42.3	39.2	34.0	32.0	27.9	27.9
87.5°	11.3	14.4	14.4	10.3	10.3	5.2	3.1	1.0	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)