

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: P637389

Luminaire Tested: GWS-SA4C-760-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637389
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16327.9 lumens
Efficiency: N/A
Efficacy: 127.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

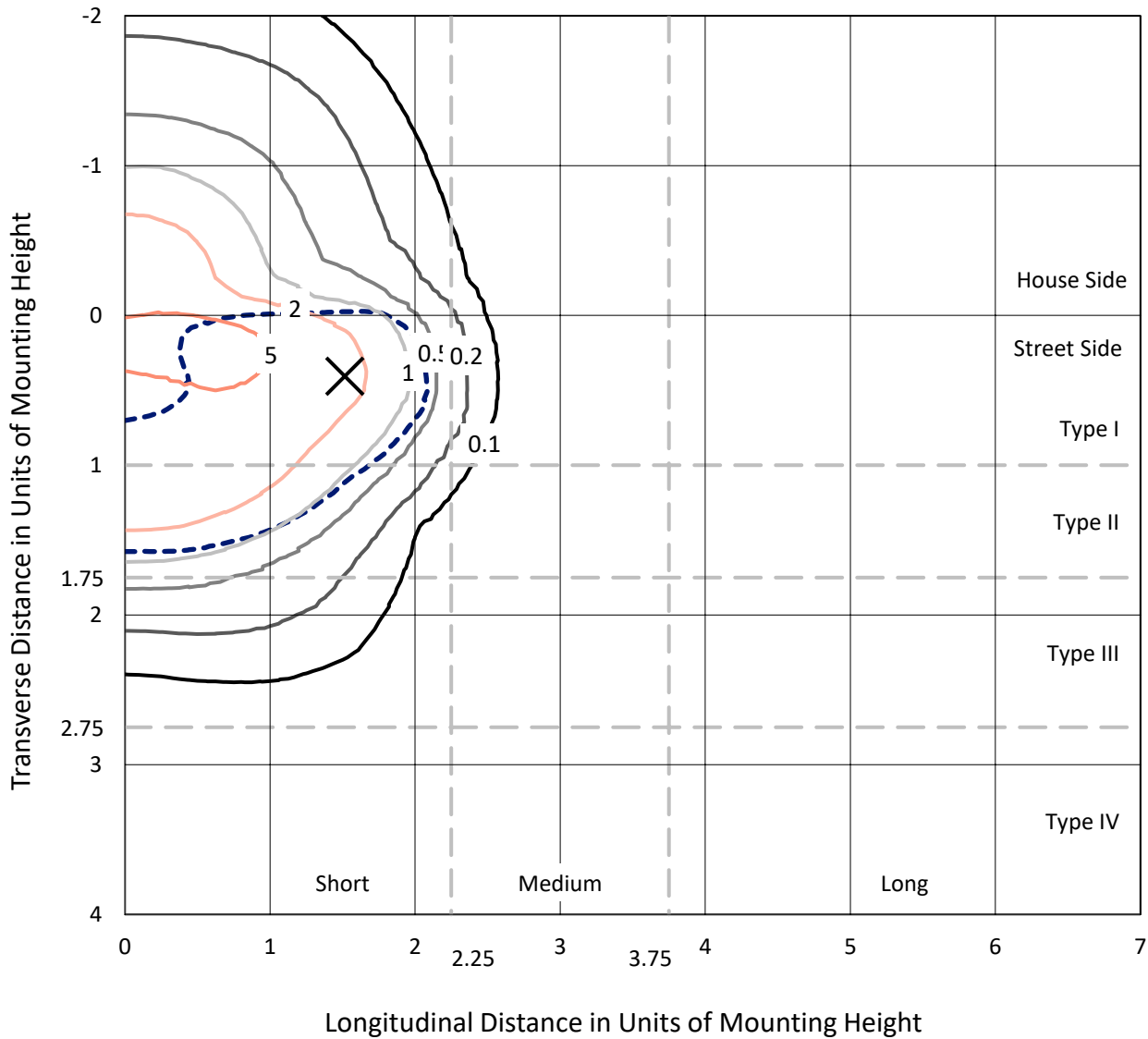
Input Watts (W): 128.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

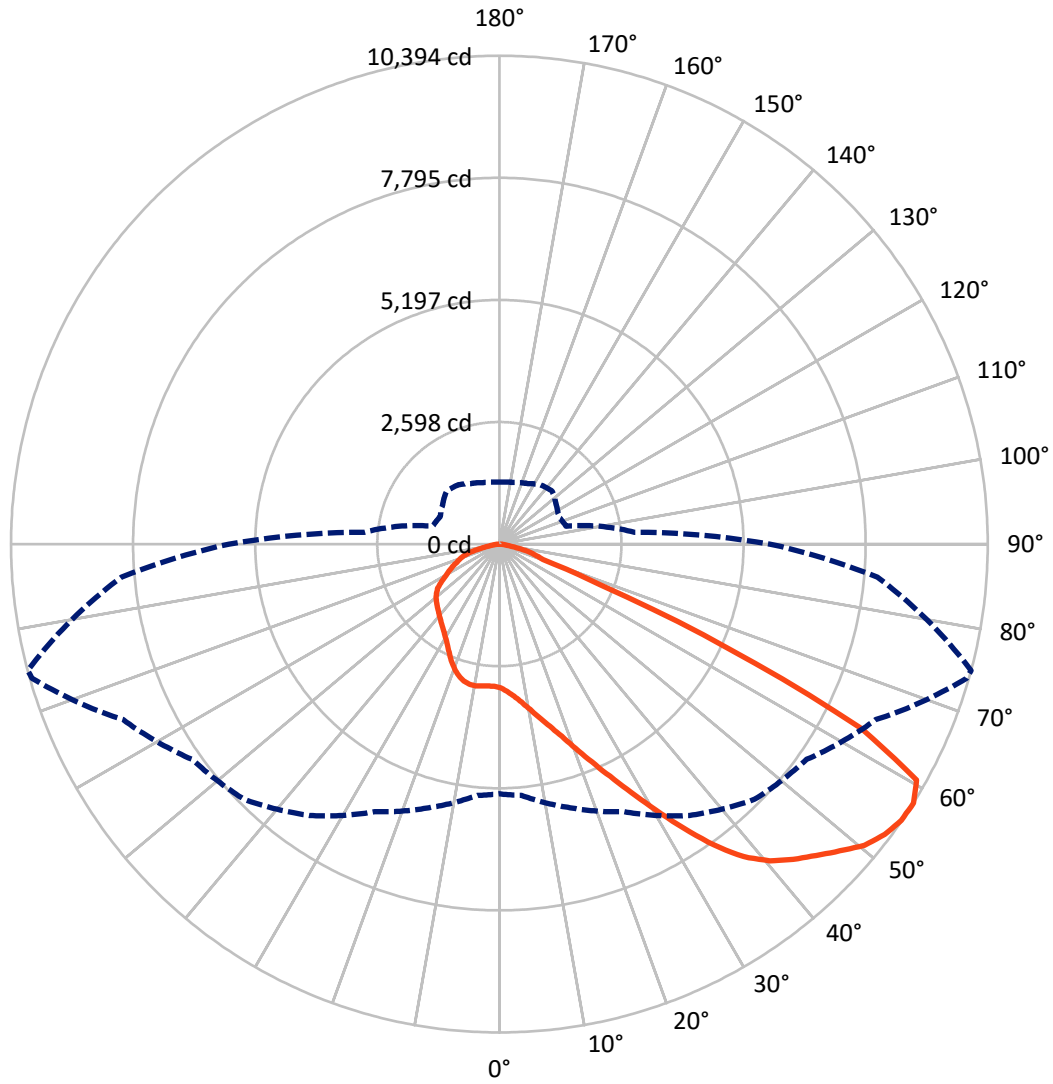
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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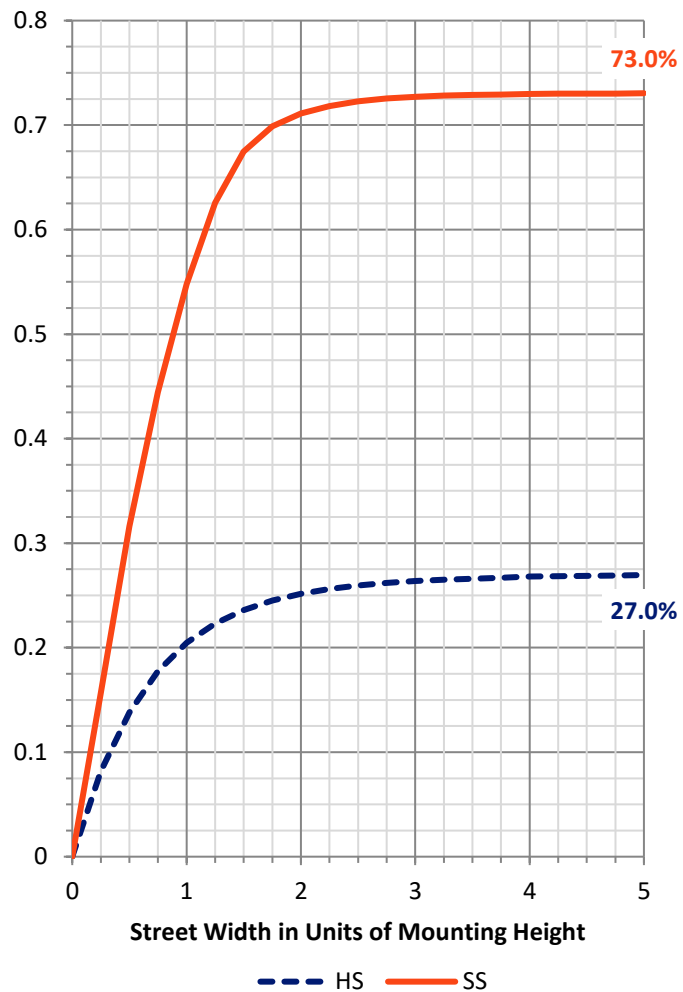
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4417.0	0.0	4417.0
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	11910.9	0.0	11910.9
	% Fixture	72.9	0.0	72.9
Total	Lumens	16327.9	0.0	16327.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.0	1.9
10°-20°	974.2	6.0
20°-30°	1727.8	10.6
30°-40°	2644.9	16.2
40°-50°	3682.8	22.6
50°-60°	4219.8	25.8
60°-70°	2168.2	13.3
70°-80°	545.9	3.3
80°-90°	58.3	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°	16327.9	100.0
0°-180°	16327.9	100.0

Coefficient of Utilization



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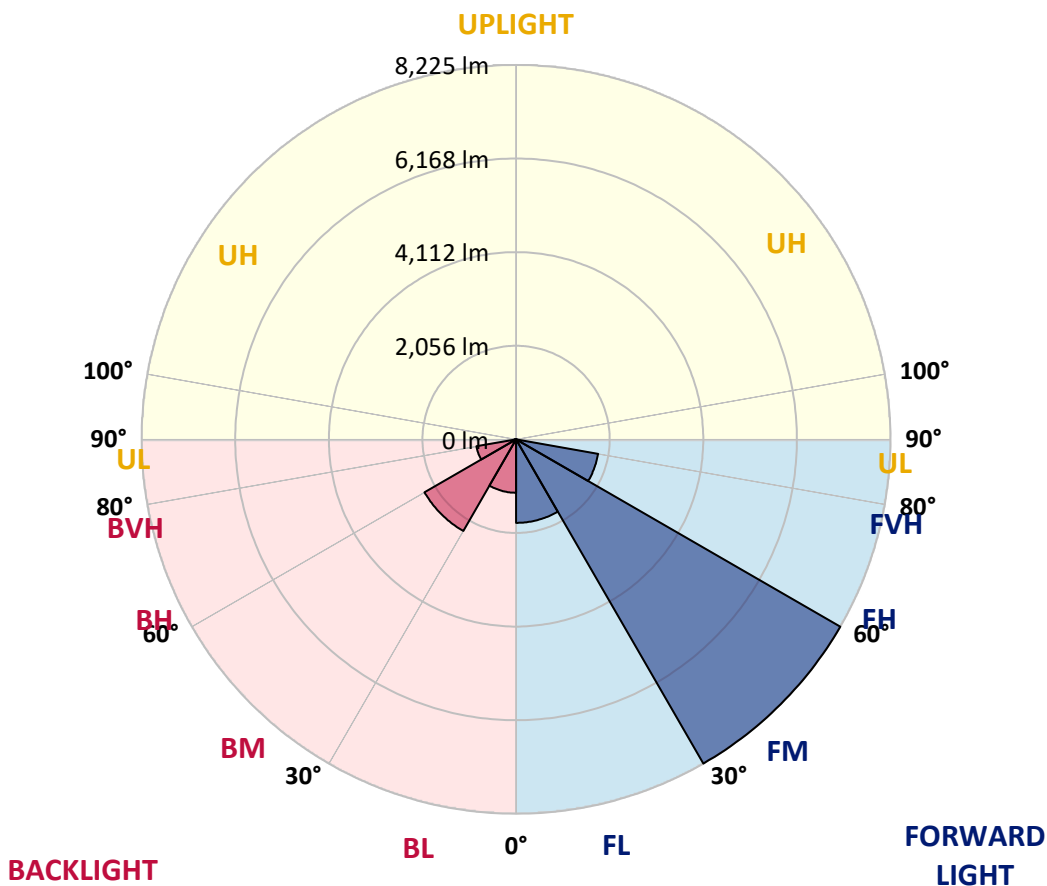
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1834.5	11.2			
FM (30°-60°)	8224.5	50.4			
FH (60°-80°)	1830.2	11.2			G2/5000
FVH (80°-90°)	21.6	0.1			G1/100
BL (0°-30°)	1173.4	7.2	B3/2500		
BM (30°-60°)	2323.0	14.2	B2/2500		
BH (60°-80°)	883.9	5.4	B2/1000		G2/1000
BVH (80°-90°)	36.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	3057.8	3057.8	3057.8	3057.8	3057.8	3057.8	3057.8	3057.8	3057.8	3057.8	3057.8
2.5°	3285.3	3293.7	3285.3	3299.3	3271.2	3258.6	3227.7	3181.4	3144.9	3139.3	3098.5
5°	3540.8	3559.0	3547.8	3542.2	3504.3	3476.2	3429.9	3337.2	3261.4	3250.2	3170.1
7.5°	3705.0	3717.7	3717.7	3721.9	3707.9	3675.6	3626.4	3516.9	3410.2	3393.4	3272.6
10°	3759.8	3769.6	3787.9	3823.0	3851.1	3860.9	3828.6	3723.3	3592.7	3575.9	3407.4
12.5°	3772.4	3783.7	3811.7	3876.3	3953.5	4023.7	4029.4	3952.1	3806.1	3787.9	3563.2
15°	3796.3	3807.5	3845.4	3925.5	4039.2	4174.0	4256.8	4203.5	4042.0	4022.3	3740.1
17.5°	3793.5	3806.1	3862.3	3969.0	4122.0	4317.2	4477.2	4499.7	4332.6	4298.9	3940.9
20°	3786.5	3797.7	3858.1	3988.6	4178.2	4446.3	4735.6	4852.1	4672.4	4641.5	4175.4
22.5°	3842.6	3855.3	3901.6	4009.7	4207.7	4546.0	4974.2	5255.0	5075.3	5031.8	4444.9
25°	3969.0	3987.2	4015.3	4089.7	4261.0	4634.5	5218.5	5711.3	5527.4	5475.4	4738.4
27.5°	4164.1	4186.6	4225.9	4261.0	4380.4	4746.8	5461.4	6222.3	6038.4	5983.7	5048.6
30°	4402.8	4432.3	4482.8	4506.7	4588.1	4912.5	5725.3	6748.8	6642.1	6566.3	5398.2
32.5°	4732.7	4773.5	4821.2	4828.2	4877.4	5163.8	5986.5	7271.1	7269.7	7216.4	5795.5
35°	5162.4	5205.9	5215.7	5225.5	5249.4	5509.1	6302.4	7747.0	7931.0	7869.2	6228.0
37.5°	5631.3	5694.5	5709.9	5666.4	5700.1	5924.7	6657.6	8128.9	8506.6	8440.6	6646.3
40°	6132.5	6157.8	6199.9	6131.1	6173.2	6400.7	7005.8	8373.2	8936.2	8866.0	6976.3
42.5°	6491.9	6538.2	6601.4	6576.1	6600.0	6807.8	7250.0	8491.1	9242.3	9172.1	7213.5
45°	6882.2	6896.2	6937.0	6931.3	6945.4	7139.1	7425.5	8543.1	9516.0	9452.9	7415.7
47.5°	7222.0	7243.0	7269.7	7238.8	7207.9	7334.3	7568.7	8588.0	9831.9	9756.1	7627.7
50°	7549.1	7567.3	7599.6	7509.8	7394.7	7426.9	7638.9	8649.8	10128.2	10074.8	7794.8
52.5°	7609.5	7629.1	7780.7	7799.0	7651.6	7537.9	7762.5	8786.0	10302.3	10268.6	7855.2
55°	6849.9	6885.0	7186.9	7533.6	7897.3	7860.8	7960.5	8857.6	10371.0	10379.5	7963.3
57.5°	5316.8	5367.3	5808.2	6284.1	7049.3	7682.5	7985.7	8839.3	10347.2	10393.5	8074.2
60°	3487.4	3516.9	4039.2	4572.7	5365.9	6242.0	7147.6	8510.8	10135.2	10201.2	8046.1
62.5°	2105.9	2139.6	2559.4	2963.8	3431.3	4016.7	4847.9	6840.1	8495.4	8642.8	6444.2
65°	1469.9	1514.9	1882.7	2215.4	2376.9	2256.2	2455.5	3820.2	5292.9	5354.7	3938.1
67.5°	1065.6	1096.5	1398.3	1794.3	1972.6	1593.5	1214.4	1691.8	2305.3	2327.8	1624.4
70°	697.8	732.9	1006.6	1366.1	1610.3	1291.6	908.4	915.4	970.1	981.4	943.5
72.5°	383.3	404.3	622.0	907.0	951.9	772.2	709.0	760.9	798.9	798.9	808.7
75°	198.0	216.2	254.1	299.0	360.8	422.6	511.0	588.3	629.0	631.8	627.6
77.5°	101.1	108.1	136.2	147.4	161.5	188.1	244.3	313.1	349.6	363.6	360.8
80°	47.7	50.5	57.6	67.4	82.8	105.3	132.0	157.2	179.7	182.5	198.0
82.5°	25.3	28.1	30.9	36.5	44.9	56.2	77.2	92.7	106.7	109.5	122.1
85°	9.8	11.2	12.6	14.0	19.7	23.9	32.3	43.5	53.4	53.4	63.2
87.5°	0.0	0.0	0.0	0.0	1.4	2.8	5.6	7.0	9.8	9.8	16.8
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°	3057.8	3057.8	3057.8	3057.8	3057.8	3057.8	3057.8	3057.8	3057.8	3057.8	3057.8
2.5°	3088.7	3048.0	3029.7	3000.3	2976.4	2949.7	2928.7	2913.2	2903.4	2897.8	2892.2
5°	3139.3	3077.5	3028.3	2969.4	2928.7	2889.3	2857.1	2834.6	2823.4	2814.9	2809.3
7.5°	3217.9	3135.0	3042.4	2951.1	2879.5	2816.3	2775.6	2751.8	2736.3	2730.7	2726.5
10°	3326.0	3210.9	3057.8	2913.2	2806.5	2737.7	2709.6	2698.4	2699.8	2697.0	2695.6
12.5°	3448.1	3290.9	3053.6	2845.8	2727.9	2687.2	2688.6	2706.8	2727.9	2733.5	2734.9
15°	3580.1	3369.5	3012.9	2758.8	2666.1	2670.3	2706.8	2750.4	2789.7	2805.1	2807.9
17.5°	3723.3	3435.5	2938.5	2663.3	2615.6	2660.5	2727.9	2799.5	2857.1	2882.3	2889.3
20°	3883.4	3491.6	2833.2	2569.2	2567.8	2642.3	2740.5	2834.6	2907.6	2941.3	2946.9
22.5°	4053.2	3526.7	2704.0	2482.2	2518.7	2618.4	2730.7	2829.0	2906.2	2939.9	2946.9
25°	4224.5	3538.0	2562.2	2402.2	2468.2	2580.5	2683.0	2761.6	2834.6	2864.1	2869.7
27.5°	4384.6	3505.7	2427.4	2333.4	2421.8	2524.3	2593.1	2635.2	2685.8	2708.2	2712.4
30°	4547.4	3441.1	2313.7	2278.6	2369.9	2447.1	2478.0	2480.8	2500.5	2500.5	2503.3
32.5°	4711.7	3345.6	2214.0	2225.3	2305.3	2355.8	2360.1	2327.8	2303.9	2264.6	2263.2
35°	4901.2	3248.8	2132.6	2164.9	2229.5	2260.4	2247.7	2186.0	2128.4	2063.8	2061.0
37.5°	5076.7	3149.1	2063.8	2103.1	2143.8	2166.3	2136.8	2062.4	2014.7	1948.7	1938.9
40°	5221.3	3059.2	1997.8	2038.5	2058.2	2077.9	2030.1	1969.8	1976.8	1940.3	1938.9
42.5°	5305.6	2972.2	1936.1	1966.9	1979.6	1993.6	1951.5	1906.6	1944.5	1916.4	1917.8
45°	5367.3	2896.4	1879.9	1891.1	1922.0	1943.1	1903.8	1853.2	1861.7	1753.5	1728.3
47.5°	5437.5	2854.2	1826.6	1815.3	1870.1	1906.6	1846.2	1773.2	1722.7	1616.0	1606.1
50°	5511.9	2838.8	1770.4	1739.5	1805.5	1840.6	1770.4	1679.1	1613.1	1555.6	1550.0
52.5°	5537.2	2837.4	1700.2	1648.2	1714.2	1763.4	1704.4	1611.7	1533.1	1477.0	1474.2
55°	5636.9	2878.1	1610.3	1523.3	1585.1	1686.2	1642.6	1509.3	1446.1	1420.8	1418.0
57.5°	5753.4	2885.1	1468.5	1387.1	1472.8	1592.1	1537.3	1422.2	1353.4	1322.5	1319.7
60°	5705.7	2712.4	1316.9	1283.2	1377.3	1503.6	1453.1	1353.4	1273.4	1243.9	1241.1
62.5°	4348.1	1915.0	1206.0	1193.4	1274.8	1375.9	1366.1	1262.2	1186.3	1165.3	1162.5
65°	2615.6	1345.0	1099.3	1097.9	1155.5	1252.3	1265.0	1180.7	1100.7	1071.2	1071.2
67.5°	1293.0	1029.1	978.6	971.5	1008.0	1076.8	1130.2	1061.4	994.0	965.9	961.7
70°	914.0	907.0	890.1	870.5	877.5	905.6	928.0	870.5	798.9	770.8	765.2
72.5°	790.4	791.8	780.6	765.2	759.5	739.9	720.2	678.1	634.6	605.1	607.9
75°	613.5	616.3	623.4	617.7	602.3	581.2	560.2	506.8	471.7	443.7	438.0
77.5°	358.0	372.0	394.5	388.9	391.7	362.2	353.8	301.9	269.6	249.9	245.7
80°	202.2	210.6	220.4	227.4	219.0	206.4	188.1	160.1	150.2	136.2	133.4
82.5°	122.1	130.6	134.8	140.4	137.6	120.7	106.7	88.4	80.0	73.0	71.6
85°	61.8	67.4	71.6	74.4	66.0	54.8	49.1	39.3	33.7	29.5	29.5
87.5°	15.4	16.8	19.7	16.8	15.4	7.0	5.6	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)