

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: P639868

Luminaire Tested: GWS-SA5C-760-U-T2R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639868
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5C-760-U-T2R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21143.9 lumens
Efficiency: N/A
Efficacy: 134.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

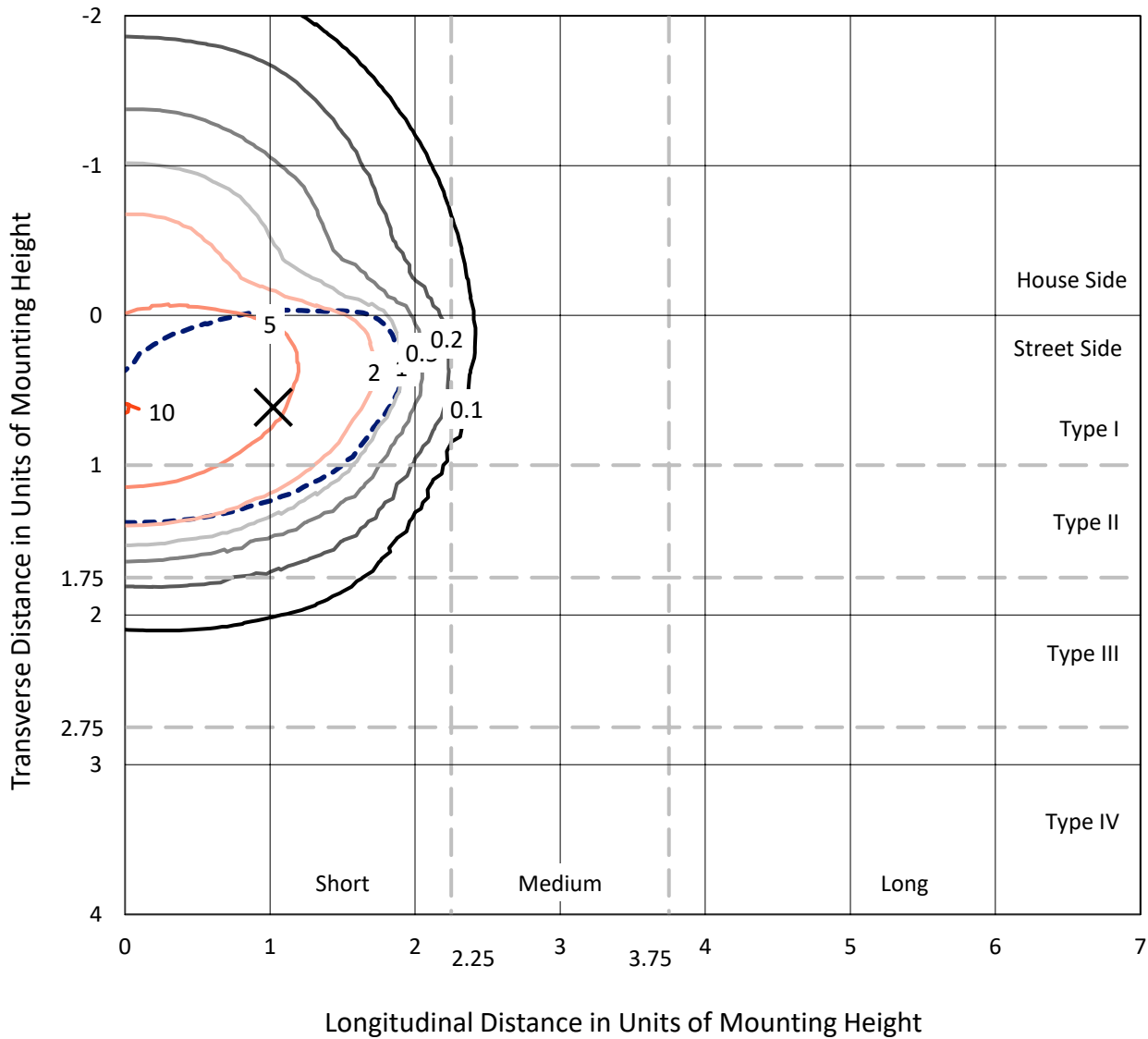
Input Watts (W): 157.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

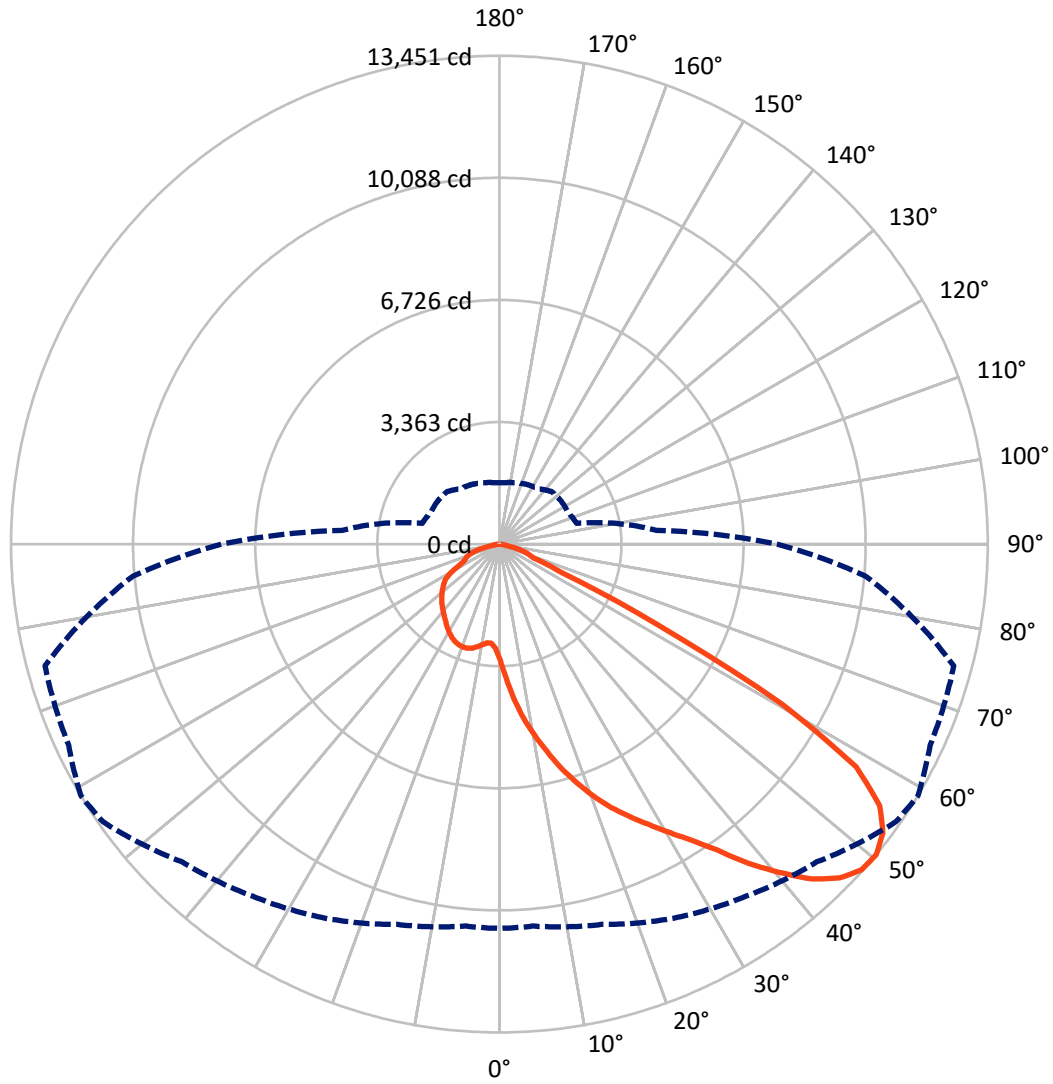
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4863.5	0.0	4863.5
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	16280.4	0.0	16280.4
	% Fixture	77.0	0.0	77.0
Total	Lumens	21143.9	0.0	21143.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.4	1.7
10°-20°	1304.6	6.2
20°-30°	2470.3	11.7
30°-40°	4096.6	19.4
40°-50°	5596.2	26.5
50°-60°	5079.9	24.0
60°-70°	1691.7	8.0
70°-80°	493.4	2.3
80°-90°	51.8	0.2
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°	21143.9	100.0
0°-180°	21143.9	100.0

Coefficient of Utilization



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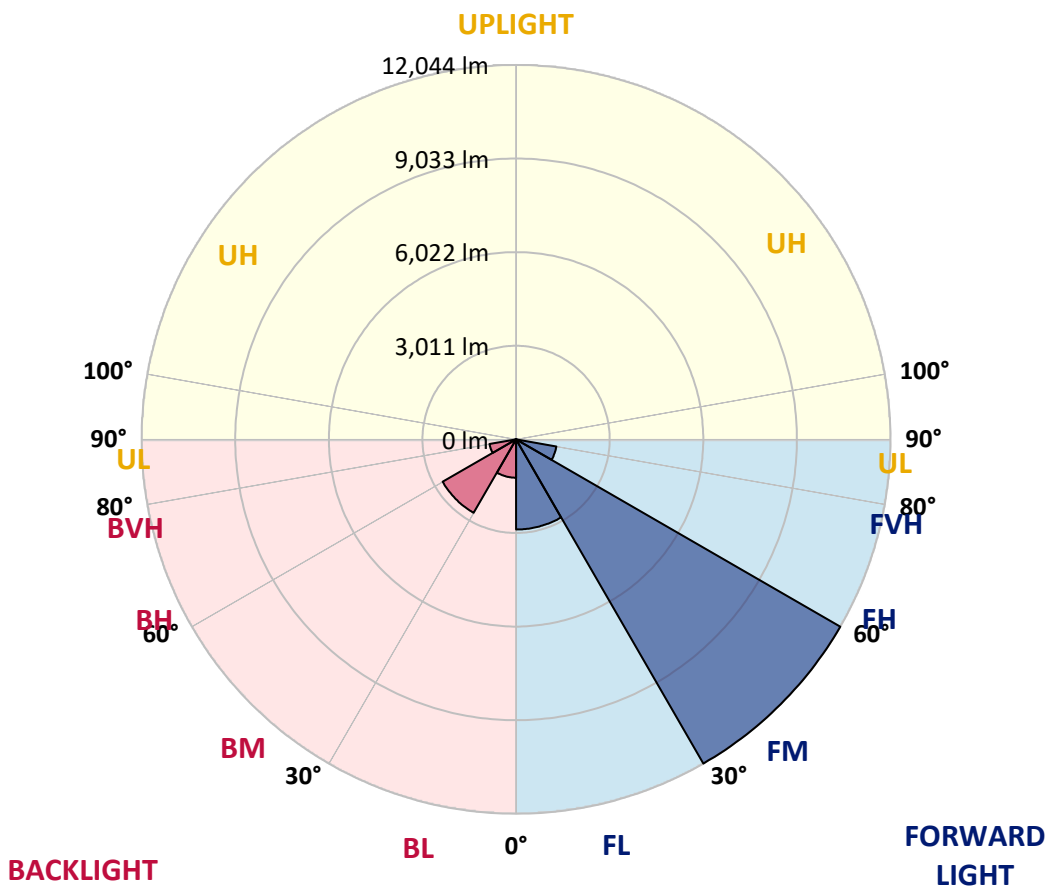
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2899.3	13.7			
FM (30°-60°)	12043.8	57.0			
FH (60°-80°)	1317.0	6.2			G1/1800
FVH (80°-90°)	20.3	0.1			G1/100
BL (0°-30°)	1235.0	5.8	B3/2500		
BM (30°-60°)	2728.9	12.9	B3/5000		
BH (60°-80°)	868.1	4.1	B2/1000		G2/1000
BVH (80°-90°)	31.6	0.1			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°	59°	65°	75°	85°
0°	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5
2.5°	4150.7	4181.7	4133.5	4136.9	4016.4	3961.3	3806.3	3715.0	3654.7	3485.9	3332.6
5°	4987.7	4951.6	4913.7	4891.3	4786.2	4638.1	4445.2	4291.9	4150.7	3820.0	3501.4
7.5°	5501.0	5482.0	5456.2	5442.4	5339.1	5184.1	4991.2	4860.3	4655.3	4207.5	3706.4
10°	5936.7	5914.3	5898.8	5909.2	5824.8	5724.9	5514.8	5364.9	5134.1	4617.4	3954.4
12.5°	6274.3	6286.3	6291.5	6346.6	6310.5	6250.2	6033.2	5874.7	5618.1	5049.7	4245.4
15°	6541.2	6537.8	6598.1	6703.1	6761.7	6723.8	6549.9	6417.2	6103.8	5475.1	4558.9
17.5°	6603.2	6606.7	6701.4	6885.7	7076.9	7169.9	7071.7	6913.3	6603.2	5895.4	4884.4
20°	6653.2	6660.1	6758.2	6968.4	7247.4	7507.4	7522.9	7409.3	7142.3	6350.1	5215.1
22.5°	6968.4	6983.9	7009.7	7142.3	7393.8	7722.7	7903.6	7879.5	7655.6	6827.1	5571.6
25°	7796.8	7750.3	7624.6	7586.7	7683.1	7950.1	8258.4	8304.9	8194.6	7352.4	5955.7
27.5°	8819.8	8769.9	8583.9	8387.5	8179.1	8272.1	8601.1	8740.6	8742.3	7931.1	6341.5
30°	9748.1	9708.5	9557.0	9276.2	8916.3	8781.9	9024.8	9212.5	9324.5	8599.4	6780.6
32.5°	10542.1	10505.9	10301.0	10071.9	9720.6	9450.2	9538.0	9718.9	9980.6	9464.0	7326.6
35°	11210.4	11174.2	10977.8	10747.1	10421.5	10259.7	10228.7	10352.7	10691.9	10366.4	7953.5
37.5°	11752.9	11716.7	11511.8	11294.7	11046.7	11057.1	11103.6	11163.9	11358.5	11332.6	8623.5
40°	12104.2	12066.3	11919.9	11764.9	11608.2	11732.2	11963.0	11890.7	11994.0	12112.8	9240.1
42.5°	12260.9	12212.7	12128.3	12093.9	12045.7	12238.6	12682.9	12610.6	12486.6	12633.0	9698.2
45°	12104.2	12062.9	12061.2	12166.2	12278.2	12526.2	13180.6	13122.1	12808.6	12884.4	9972.0
47.5°	11623.7	11587.5	11685.7	11961.3	12236.8	12598.5	13402.8	13413.2	13037.7	12989.5	10149.4
50°	10585.2	10561.1	10845.2	11367.1	11842.4	12372.9	13332.2	13451.0	13092.8	12956.8	10127.0
52.5°	8473.6	8585.6	9203.9	10075.4	10998.5	11976.8	13070.4	13225.4	12827.6	12741.5	10006.5
55°	5800.7	5852.3	6470.6	7743.4	9207.3	11119.1	12469.3	12708.7	12514.1	12705.3	10132.2
57.5°	3003.7	3045.0	3532.4	4662.2	6245.0	8787.1	10800.5	11585.8	11882.0	12887.9	10523.2
60°	1233.2	1267.6	1469.1	2015.1	3150.1	5116.9	7772.7	8936.9	9632.7	11770.1	9345.1
62.5°	895.6	912.8	1009.3	1202.2	1649.9	2507.6	4398.7	4827.6	5316.7	7376.5	5933.3
65°	754.4	773.3	850.8	967.9	1203.9	1538.0	1879.0	1889.3	2082.2	3005.4	2199.4
67.5°	632.1	649.3	718.2	818.1	973.1	1091.9	1009.3	1011.0	1007.5	1090.2	1054.0
70°	492.6	506.4	575.2	682.0	763.0	701.0	788.8	873.2	837.0	869.8	919.7
72.5°	360.0	375.5	435.7	516.7	496.0	499.5	639.0	725.1	704.4	740.6	787.1
75°	260.1	270.4	301.4	258.3	272.1	329.0	449.5	496.0	516.7	547.7	589.0
77.5°	84.4	84.4	94.7	118.8	148.1	182.6	229.1	248.0	279.0	313.5	342.7
80°	43.1	44.8	53.4	65.4	82.7	105.1	134.3	142.9	158.5	177.4	189.5
82.5°	20.7	22.4	25.8	32.7	43.1	55.1	74.1	82.7	93.0	105.1	113.7
85°	5.2	5.2	6.9	10.3	13.8	20.7	27.6	32.7	41.3	49.9	55.1
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	5.2	6.9	8.6	10.3	13.8
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°	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5	3203.5
2.5°	3263.7	3167.3	3043.3	2938.2	2841.8	2767.7	2704.0	2673.0	2643.7	2623.0	2629.9
5°	3353.3	3187.9	2957.2	2797.0	2698.8	2648.9	2614.4	2597.2	2593.8	2580.0	2574.8
7.5°	3484.2	3248.2	2939.9	2778.0	2712.6	2686.8	2667.8	2657.5	2662.7	2648.9	2643.7
10°	3646.1	3348.1	2983.0	2840.0	2783.2	2764.3	2743.6	2729.8	2722.9	2702.3	2698.8
12.5°	3847.6	3472.1	3060.5	2919.3	2862.4	2829.7	2802.2	2778.0	2762.5	2736.7	2729.8
15°	4064.6	3609.9	3151.8	2996.8	2929.6	2881.4	2836.6	2800.4	2772.9	2738.4	2733.3
17.5°	4300.5	3754.6	3227.6	3050.2	2964.1	2900.3	2834.9	2781.5	2743.6	2698.8	2693.7
20°	4546.8	3901.0	3284.4	3076.0	2965.8	2879.7	2791.8	2721.2	2673.0	2628.2	2624.8
22.5°	4801.7	4035.3	3318.8	3069.1	2938.2	2831.4	2726.4	2647.2	2590.3	2536.9	2533.5
25°	5058.4	4164.5	3327.5	3041.6	2883.1	2759.1	2654.0	2561.0	2497.3	2437.0	2430.1
27.5°	5318.4	4273.0	3306.8	2986.4	2809.0	2674.7	2569.6	2478.4	2412.9	2352.6	2342.3
30°	5595.7	4366.0	3262.0	2914.1	2722.9	2585.2	2481.8	2412.9	2350.9	2290.6	2280.3
32.5°	5891.9	4446.9	3198.3	2826.3	2623.0	2495.6	2419.8	2357.8	2295.8	2242.4	2232.1
35°	6245.0	4500.3	3103.6	2712.6	2530.0	2430.1	2378.5	2306.1	2230.4	2171.8	2166.6
37.5°	6610.1	4541.7	2989.9	2604.1	2449.1	2392.3	2349.2	2251.0	2156.3	2085.7	2077.1
40°	6963.2	4576.1	2848.7	2502.5	2375.0	2364.7	2306.1	2183.9	2020.2	1941.0	1934.1
42.5°	7292.2	4586.4	2700.5	2394.0	2307.9	2302.7	2237.2	2047.8	1922.1	1872.1	1865.2
45°	7517.8	4577.8	2547.3	2292.4	2240.7	2213.1	2144.2	1949.6	1872.1	1827.3	1818.7
47.5°	7684.8	4533.1	2375.0	2185.6	2164.9	2127.0	1978.9	1887.6	1815.3	1770.5	1761.9
50°	7655.6	4347.0	2201.1	2082.2	2073.6	2040.9	1858.3	1810.1	1746.4	1698.2	1691.3
52.5°	7504.0	3994.0	2023.7	1968.6	1985.8	1922.1	1772.2	1717.1	1662.0	1606.9	1594.8
55°	7541.9	3739.1	1889.3	1858.3	1889.3	1744.7	1675.8	1617.2	1565.6	1512.2	1501.8
57.5°	7707.2	3487.6	1746.4	1739.5	1772.2	1608.6	1551.8	1477.7	1403.7	1360.6	1360.6
60°	6472.3	2542.1	1494.9	1512.2	1586.2	1498.4	1448.4	1372.7	1291.7	1253.8	1253.8
62.5°	3826.9	1594.8	1240.0	1221.1	1267.6	1322.7	1350.3	1288.3	1191.8	1141.9	1143.6
65°	1686.1	1160.8	1093.7	1078.2	1064.4	1102.3	1178.0	1183.2	1081.6	1023.0	1024.8
67.5°	1038.5	1050.6	1023.0	1011.0	998.9	992.0	985.1	988.6	961.0	907.6	905.9
70°	936.9	969.6	950.7	940.4	924.9	912.8	871.5	804.3	757.8	744.0	759.5
72.5°	806.0	850.8	840.5	835.3	816.4	787.1	732.0	666.5	611.4	577.0	583.9
75°	608.0	644.1	649.3	651.0	630.4	602.8	546.0	490.9	442.6	406.5	415.1
77.5°	349.6	370.3	375.5	380.6	365.1	354.8	316.9	277.3	251.5	213.6	223.9
80°	194.6	203.2	203.2	205.0	196.3	184.3	158.5	136.1	124.0	106.8	108.5
82.5°	117.1	120.6	122.3	124.0	118.8	106.8	87.8	72.3	65.4	56.8	55.1
85°	56.8	60.3	60.3	62.0	53.4	46.5	36.2	27.6	24.1	17.2	18.9
87.5°	13.8	15.5	15.5	13.8	12.1	8.6	5.2	1.7	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)