

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: P635030

Luminaire Tested: GWS-SA3C-830-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635030  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3C-830-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (48) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

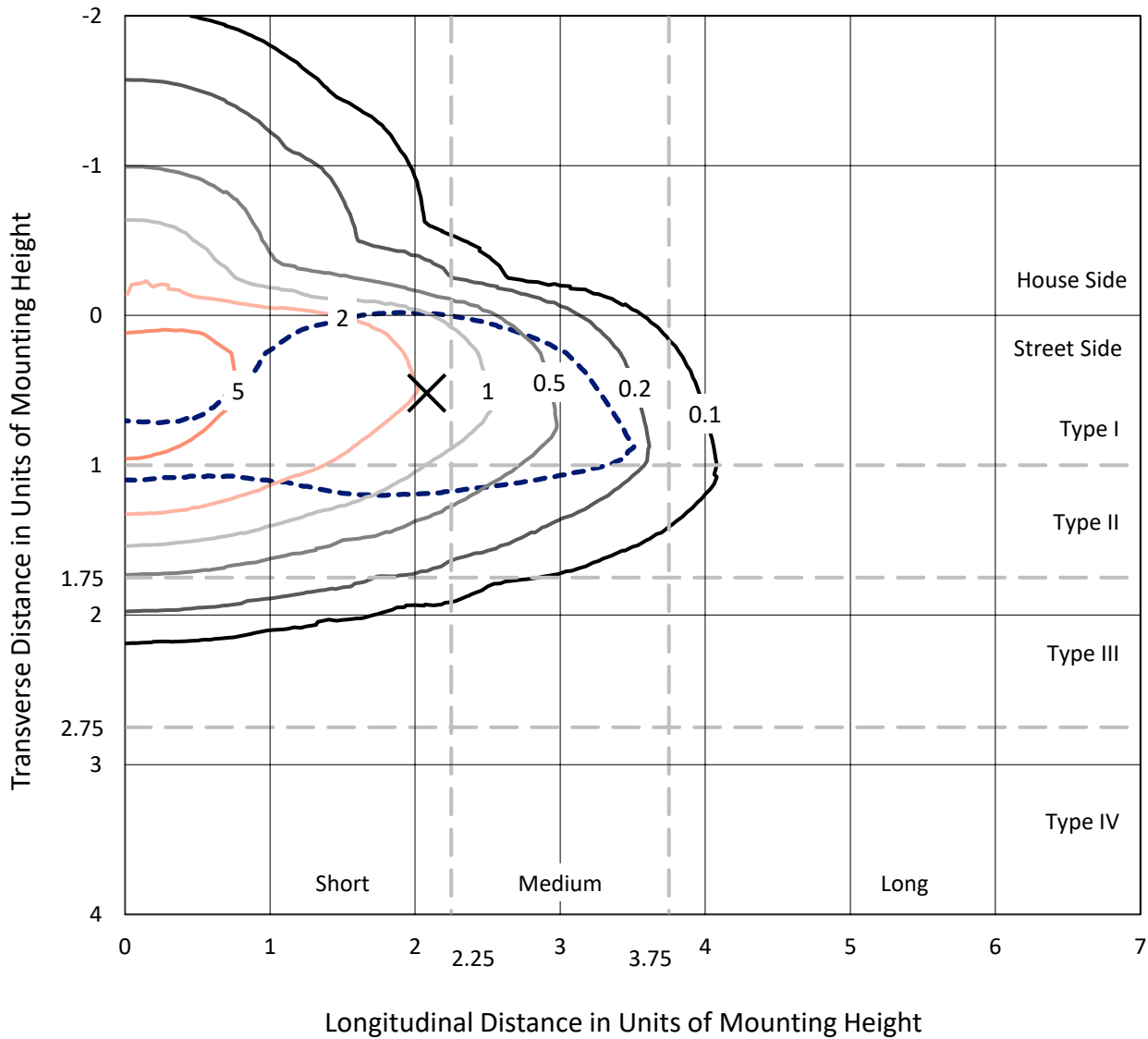
Lumens per Lamp: N/A  
Luminaire Lumens: 11299.4 lumens  
Efficiency: N/A  
Efficacy: 121.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 93  
Input Voltage (V): 120  
Input Current (Ain): 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

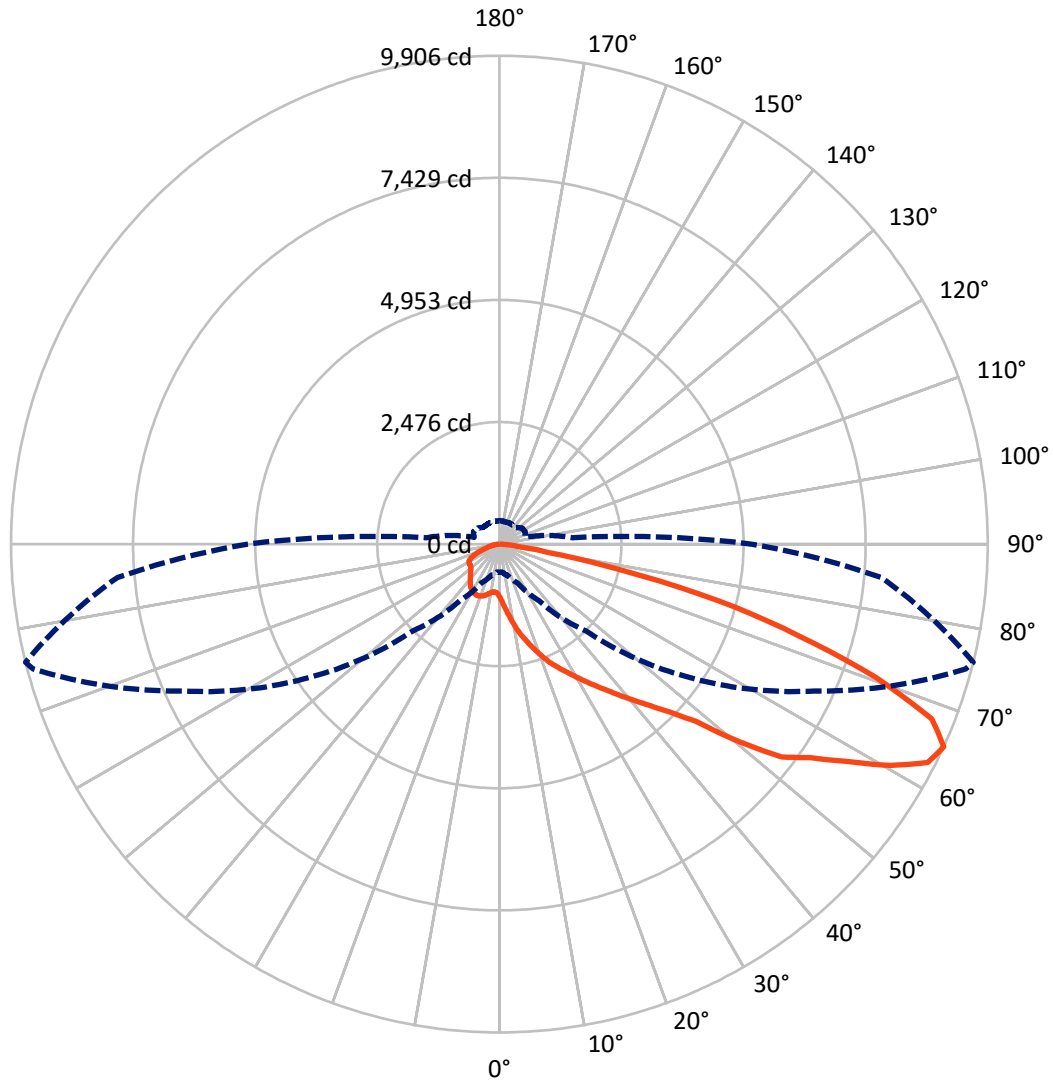
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 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 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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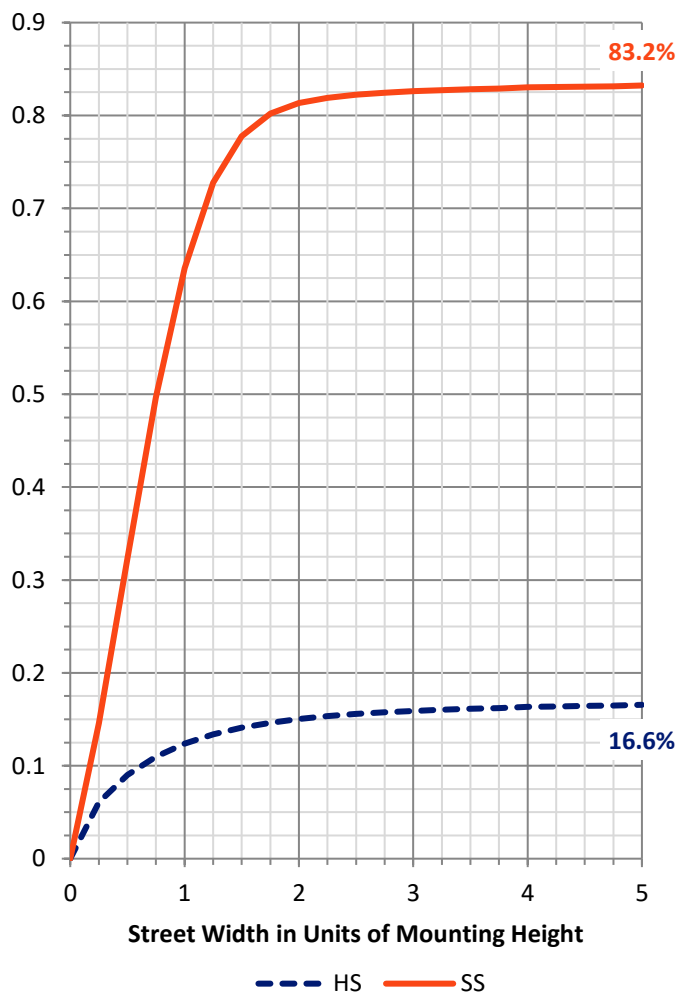
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1888.7	0.0	1888.7
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	9410.7	0.0	9410.7
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	11299.4	0.0	11299.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	127.1	1.1
10°-20°	484.2	4.3
20°-30°	943.6	8.4
30°-40°	1578.2	14.0
40°-50°	2259.6	20.0
50°-60°	2675.1	23.7
60°-70°	2224.4	19.7
70°-80°	910.3	8.1
80°-90°	96.9	0.9
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°	11299.4	100.0
0°-180°	11299.4	100.0

**Coefficient of Utilization**



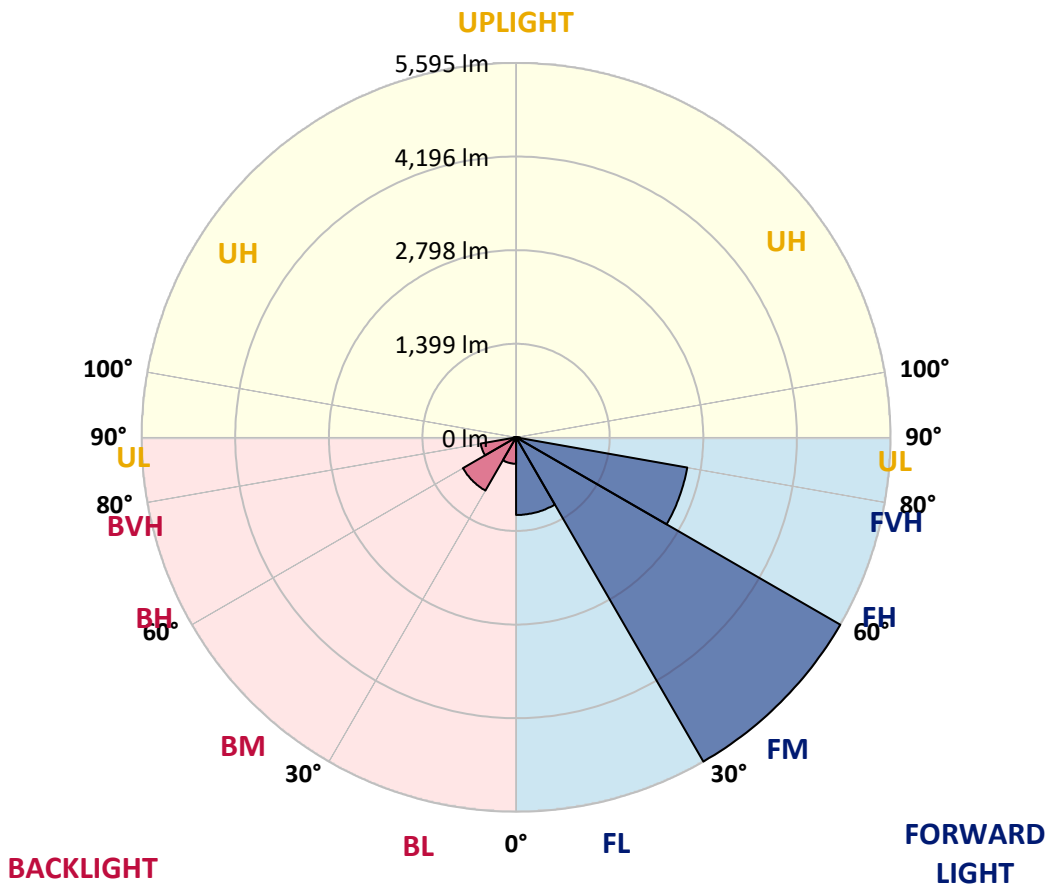
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CATALOG NUMBER: GWS-SA3C-830-U-T2R-W

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1159.8	10.3			
FM (30°-60°)	5595.0	49.5			
FH (60°-80°)	2598.0	23.0			G2/5000
FVH (80°-90°)	57.8	0.5			G1/100
BL (0°-30°)	395.1	3.5	B1/500		
BM (30°-60°)	917.9	8.1	B1/1000		
BH (60°-80°)	536.6	4.7	B2/1000		G2/1000
BVH (80°-90°)	39.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1499.8	1505.3	1487.1	1480.7	1437.8	1379.8	1331.4	1258.3	1190.8	1180.4	1120.1
5°	1904.9	1881.1	1860.4	1846.9	1787.3	1721.4	1618.9	1481.5	1337.7	1320.2	1190.0
7.5°	2145.6	2141.6	2116.2	2108.2	2062.2	1996.2	1890.6	1719.8	1510.9	1482.3	1284.5
10°	2338.6	2336.2	2323.5	2330.7	2288.6	2224.2	2121.8	1945.4	1700.7	1672.1	1390.1
12.5°	2507.0	2511.0	2508.6	2534.8	2513.4	2463.3	2356.9	2163.1	1890.6	1859.6	1518.8
15°	2630.1	2633.3	2645.2	2702.4	2714.3	2704.0	2596.0	2376.7	2078.1	2033.6	1651.5
17.5°	2665.1	2671.5	2700.1	2792.2	2856.5	2899.4	2819.2	2594.4	2262.4	2213.9	1786.5
20°	2712.0	2719.1	2747.7	2843.8	2938.4	3036.1	3021.8	2815.2	2448.2	2408.5	1923.2
22.5°	2928.8	2923.3	2910.6	2956.6	3024.2	3145.7	3181.4	3027.3	2640.5	2602.3	2074.1
25°	3346.7	3336.3	3255.3	3213.2	3191.0	3264.8	3328.4	3220.4	2827.9	2770.7	2214.7
27.5°	3807.4	3801.8	3698.6	3598.5	3461.8	3430.1	3467.4	3388.8	3009.9	2951.9	2337.0
30°	4243.5	4226.8	4118.8	3993.3	3810.6	3673.9	3619.1	3554.0	3209.2	3148.9	2480.0
32.5°	4633.5	4612.1	4485.0	4346.0	4154.5	3993.3	3829.6	3729.5	3434.8	3364.9	2626.2
35°	4953.7	4932.2	4801.9	4654.2	4443.7	4324.5	4100.5	3920.2	3664.4	3593.7	2798.6
37.5°	5201.5	5181.7	5045.8	4900.4	4716.9	4622.4	4427.8	4134.7	3928.9	3855.1	2981.3
40°	5340.5	5326.2	5217.4	5102.2	4948.1	4866.3	4778.9	4405.6	4225.2	4151.4	3196.5
42.5°	5382.6	5373.1	5296.8	5237.3	5133.2	5071.2	5121.3	4724.1	4541.4	4477.0	3438.8
45°	5277.0	5277.0	5254.7	5284.9	5289.7	5288.9	5464.4	5083.9	4929.8	4859.1	3780.4
47.5°	5006.9	5024.4	5056.9	5205.5	5362.0	5493.0	5865.6	5563.7	5429.5	5371.5	4264.2
50°	4512.8	4560.5	4671.7	4961.6	5294.5	5628.1	6245.3	6273.1	6401.0	6298.5	4975.9
52.5°	3789.1	3782.0	4065.6	4478.6	4986.2	5633.6	6454.2	6899.1	7243.0	7172.3	5505.0
55°	3011.4	2999.5	3264.1	3833.6	4513.6	5420.8	6579.7	7185.8	7710.1	7646.6	5980.8
57.5°	2306.0	2291.0	2526.1	3040.0	3846.3	4968.8	6555.9	7527.4	8352.8	8320.2	6627.4
60°	1587.1	1568.9	1788.9	2238.5	3056.7	4277.7	6292.2	7703.0	9105.0	9116.1	7319.3
62.5°	953.2	942.9	1102.6	1451.3	2198.8	3421.3	5675.0	7596.5	9704.0	9754.0	7764.1
65°	575.1	568.0	661.7	865.9	1394.9	2496.7	4723.3	7052.4	9790.6	9905.7	7774.5
67.5°	418.6	419.4	446.4	527.5	813.4	1612.6	3544.5	6076.9	9339.4	9458.5	7284.3
70°	363.8	365.4	379.7	398.0	491.7	923.1	2304.5	4797.2	8005.6	8097.8	6109.5
72.5°	323.3	323.3	332.8	342.4	384.5	562.4	1234.4	3353.0	6318.4	6343.0	4662.9
75°	284.4	282.0	286.8	291.5	333.6	393.2	600.5	2336.2	4666.9	4609.7	3013.8
77.5°	226.4	224.0	224.8	229.6	267.7	281.2	304.2	1459.3	2630.1	2482.4	1331.4
80°	161.3	159.7	168.4	180.3	197.8	172.4	190.6	706.2	1043.0	970.7	516.3
82.5°	96.1	99.3	112.8	122.3	136.6	108.0	123.1	235.9	369.4	359.8	209.7
85°	13.5	14.3	40.5	46.9	58.8	42.1	65.1	106.4	147.8	158.1	73.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.6	19.1	42.1	42.9	18.3
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°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1089.1	1051.7	998.5	954.0	916.7	886.5	861.1	842.0	836.5	828.5	828.5
5°	1128.8	1061.3	965.9	898.4	859.5	836.5	820.6	812.6	808.7	803.9	801.5
7.5°	1183.6	1089.1	960.4	892.1	861.9	847.6	837.3	832.5	829.3	824.6	824.6
10°	1259.1	1130.4	977.9	914.3	890.5	876.2	864.3	856.3	849.2	842.0	840.4
12.5°	1340.9	1184.4	1009.6	944.5	919.1	901.6	884.9	873.0	864.3	855.5	853.1
15°	1431.4	1240.0	1043.8	973.9	942.1	918.3	898.4	880.2	868.2	855.5	853.9
17.5°	1520.4	1296.4	1072.4	993.8	953.2	923.8	895.3	871.4	856.3	842.0	838.1
20°	1626.9	1352.8	1092.3	999.3	950.9	911.9	877.8	847.6	830.9	814.2	811.8
22.5°	1724.6	1405.2	1101.8	991.4	932.6	886.5	846.8	814.2	796.0	779.3	776.1
25°	1819.1	1451.3	1097.8	972.3	904.8	851.6	810.3	777.7	760.2	742.7	738.0
27.5°	1910.5	1482.3	1081.9	942.9	869.8	812.6	772.9	743.5	728.4	713.3	707.0
30°	2000.2	1510.9	1057.3	904.8	825.3	772.1	739.6	718.9	703.8	687.9	683.2
32.5°	2090.8	1531.5	1020.0	860.3	780.1	736.4	716.5	701.4	685.5	669.7	664.9
35°	2182.1	1540.3	974.7	809.5	741.9	713.3	706.2	688.7	667.3	648.2	641.8
37.5°	2291.0	1548.2	918.3	759.4	708.6	702.2	700.6	674.4	649.0	622.8	615.6
40°	2422.0	1558.5	860.3	714.1	681.6	698.2	691.9	656.1	605.3	579.9	571.9
42.5°	2582.5	1577.6	799.9	672.8	661.7	683.2	676.0	611.7	577.5	563.2	559.2
45°	2818.4	1647.5	739.6	640.3	646.6	661.7	650.6	585.4	571.9	562.4	557.6
47.5°	3238.6	1754.8	687.1	615.6	634.7	642.6	599.7	578.3	568.0	555.3	549.7
50°	3675.5	1801.6	645.0	600.5	621.2	625.2	571.9	568.8	561.6	548.1	542.6
52.5°	3971.0	1795.3	619.6	595.0	610.1	595.0	559.2	558.4	553.7	537.8	531.4
55°	4304.7	1806.4	608.5	596.6	605.3	544.1	543.3	545.7	543.3	525.9	522.7
57.5°	4755.1	1840.5	602.9	602.1	602.1	519.5	528.3	531.4	526.7	518.7	516.3
60°	5188.0	1842.9	592.6	608.5	599.7	504.4	510.8	514.0	508.4	506.8	506.0
62.5°	5350.9	1728.5	569.6	603.7	590.2	487.7	492.5	494.1	488.5	492.5	491.7
65°	5108.6	1485.5	531.4	580.7	560.8	472.6	469.5	473.4	463.9	474.2	475.0
67.5°	4535.8	1180.4	473.4	537.0	519.5	456.0	449.6	449.6	433.7	449.6	448.8
70°	3657.3	834.1	388.4	467.1	474.2	436.1	432.9	414.7	389.2	413.1	410.7
72.5°	2772.3	599.0	305.8	369.4	408.3	408.3	409.1	378.1	348.7	359.8	350.3
75°	1756.3	421.8	244.7	282.8	320.1	358.3	376.5	319.3	293.1	288.4	283.6
77.5°	791.2	277.2	190.6	216.9	227.2	282.8	344.0	274.9	239.1	228.8	225.6
80°	331.3	172.4	135.8	153.3	139.8	237.5	303.4	213.7	175.6	161.3	150.9
82.5°	145.4	102.5	86.6	82.6	87.4	176.3	226.4	142.2	109.6	148.5	150.1
85°	61.2	54.0	44.5	40.5	35.7	67.5	106.4	55.6	68.3	38.9	31.8
87.5°	14.3	15.9	11.9	7.9	4.8	0.8	0.0	0.0	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)