

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: P632113

Luminaire Tested: GWS-SA2C-722-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P632113  
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-SA2C-722-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (32) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

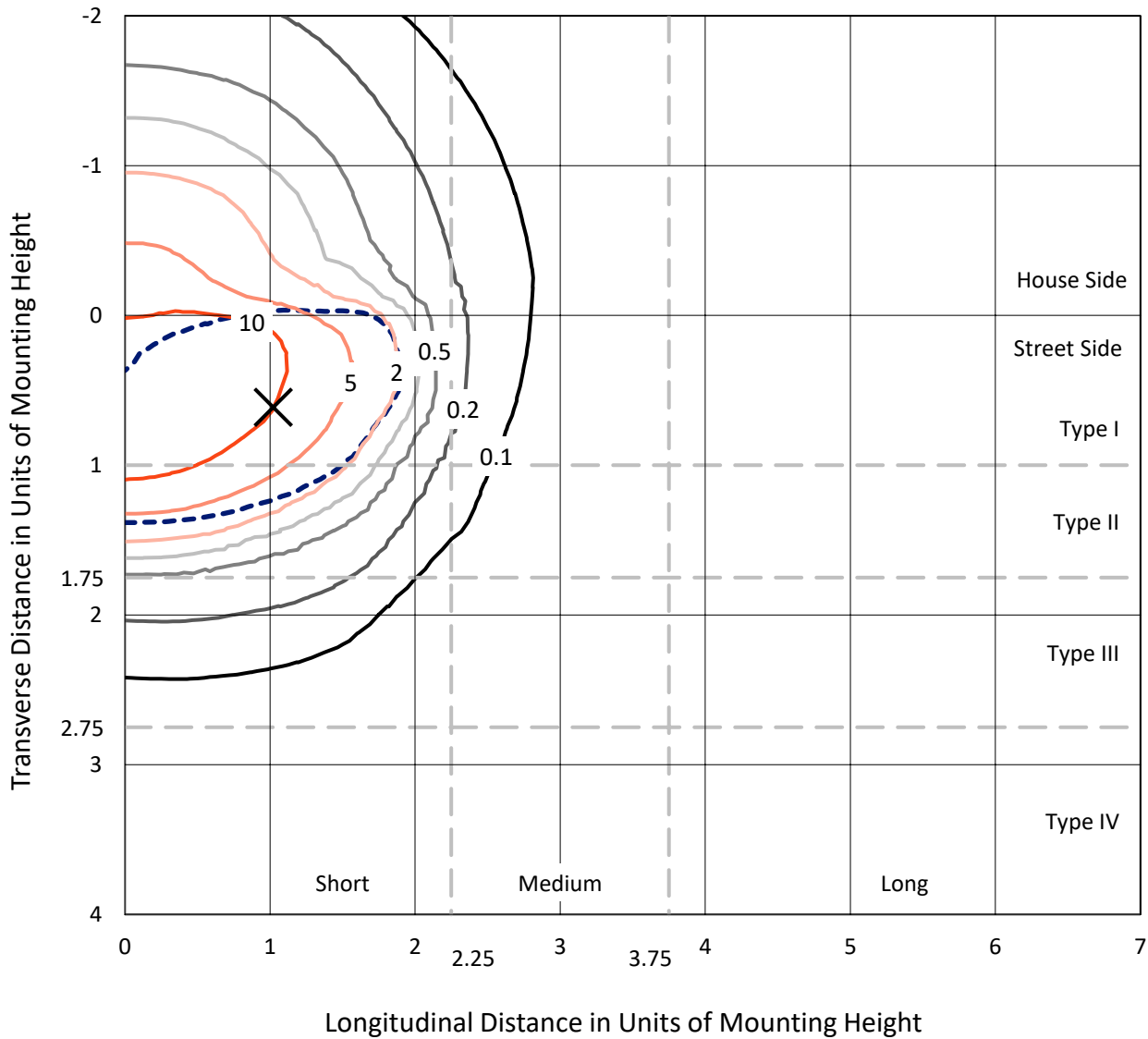
Lumens per Lamp: N/A  
Luminaire Lumens: 6000 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 63.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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



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### Iso-Footcandle Lines of Horizontal Illumination

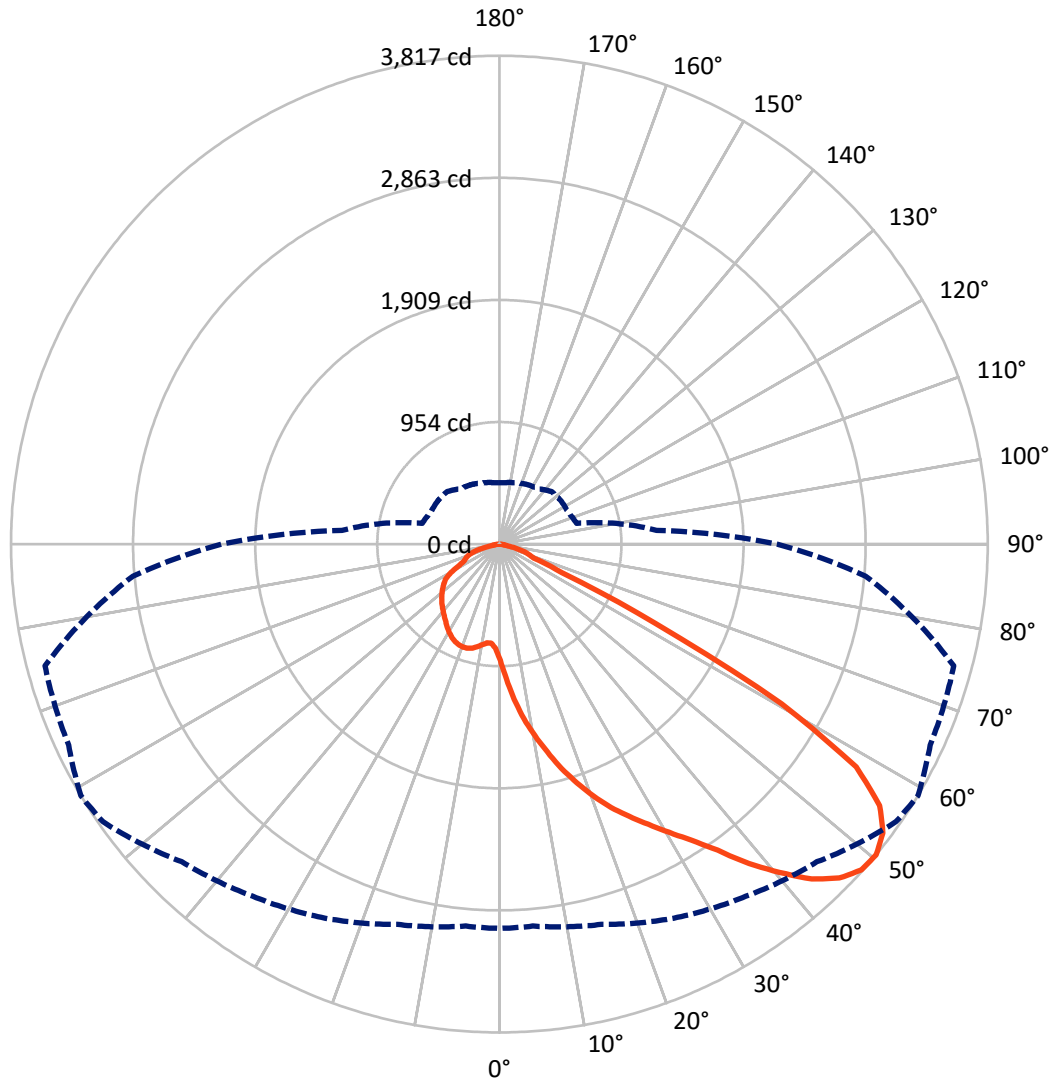
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 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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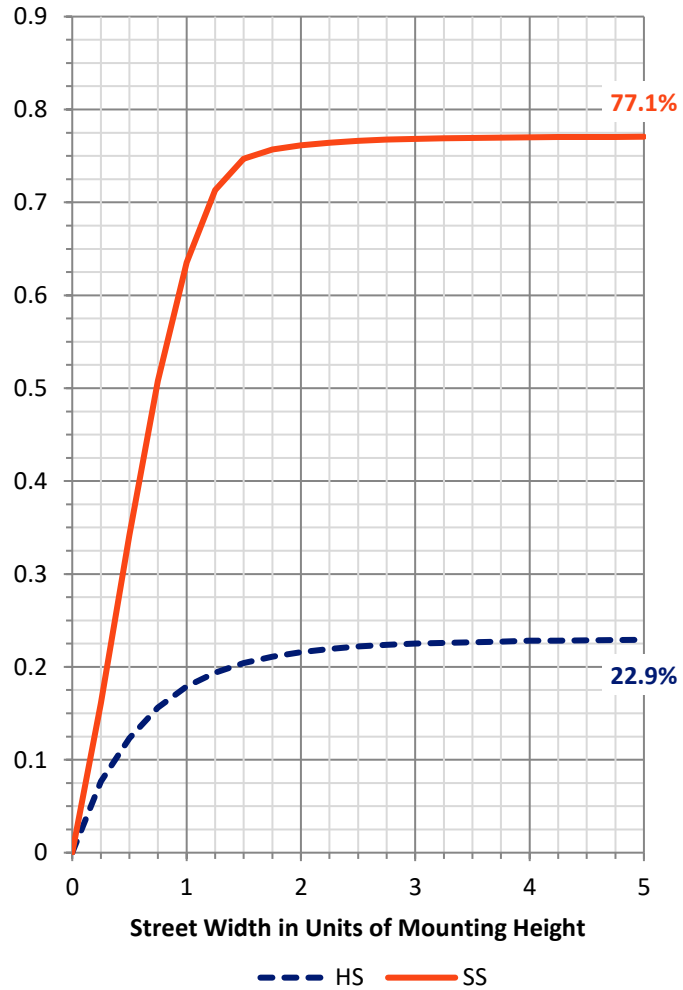
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1380.1	0.0	1380.1
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	4619.9	0.0	4619.9
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	6000.0	0.0	6000.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	102.0	1.7
10°-20°	370.2	6.2
20°-30°	701.0	11.7
30°-40°	1162.5	19.4
40°-50°	1588.0	26.5
50°-60°	1441.5	24.0
60°-70°	480.0	8.0
70°-80°	140.0	2.3
80°-90°	14.7	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°	6000.0	100.0
0°-180°	6000.0	100.0

**Coefficient of Utilization**



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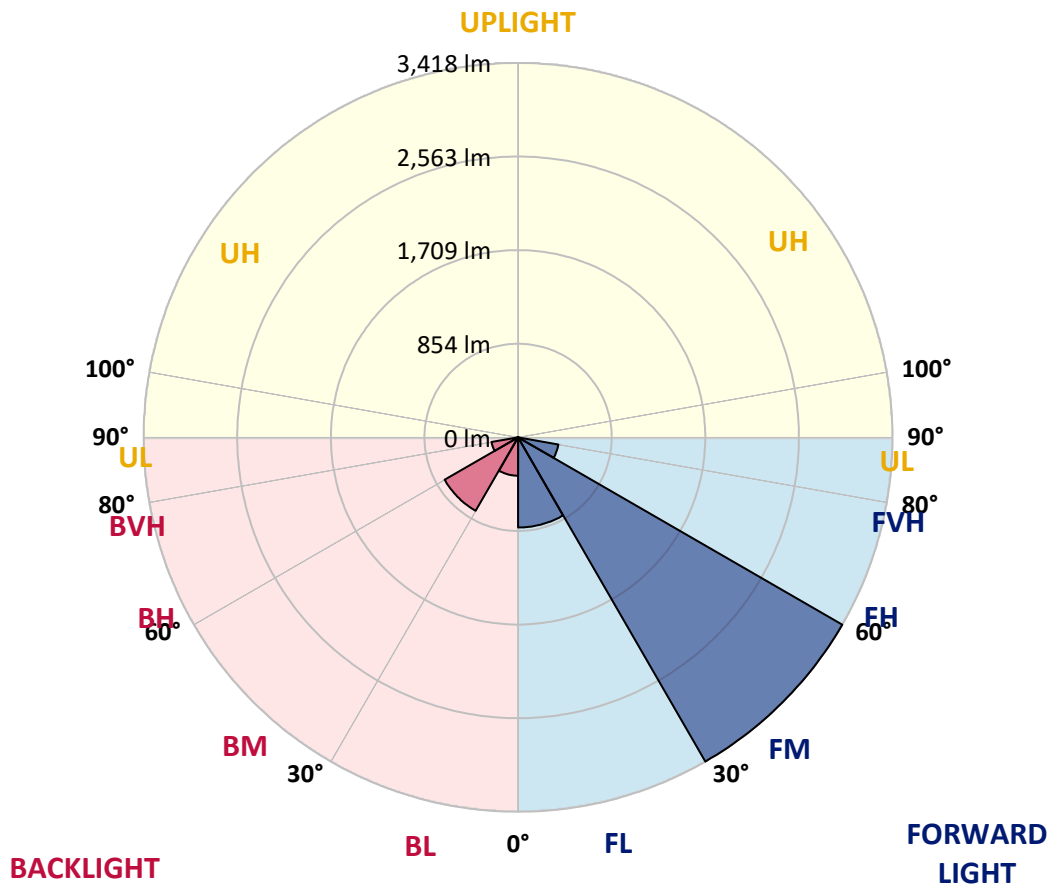
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	822.7	13.7			
FM (30°-60°)	3417.7	57.0			
FH (60°-80°)	373.7	6.2			G0/660
FVH (80°-90°)	5.8	0.1			G0/10
BL (0°-30°)	350.4	5.8	B1/500		
BM (30°-60°)	774.4	12.9	B1/1000		
BH (60°-80°)	246.3	4.1	B1/500		G1/500
BVH (80°-90°)	9.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	909.0	909.0	909.0	909.0	909.0	909.0	909.0	909.0	909.0	909.0	909.0
2.5°	1177.8	1186.6	1173.0	1173.9	1139.7	1124.1	1080.1	1054.2	1037.1	989.2	945.7
5°	1415.4	1405.1	1394.4	1388.0	1358.2	1316.2	1261.4	1217.9	1177.8	1084.0	993.6
7.5°	1561.0	1555.6	1548.3	1544.4	1515.1	1471.1	1416.3	1379.2	1321.0	1194.0	1051.8
10°	1684.7	1678.3	1673.9	1676.8	1652.9	1624.5	1564.9	1522.4	1456.9	1310.3	1122.1
12.5°	1780.5	1783.9	1785.3	1801.0	1790.7	1773.6	1712.0	1667.1	1594.2	1433.0	1204.7
15°	1856.2	1855.2	1872.3	1902.1	1918.8	1908.0	1858.6	1821.0	1732.1	1553.7	1293.7
17.5°	1873.8	1874.8	1901.7	1954.0	2008.2	2034.6	2006.7	1961.8	1873.8	1672.9	1386.0
20°	1888.0	1889.9	1917.8	1977.4	2056.6	2130.4	2134.8	2102.5	2026.8	1802.0	1479.9
22.5°	1977.4	1981.8	1989.1	2026.8	2098.1	2191.5	2242.8	2236.0	2172.4	1937.3	1581.0
25°	2212.5	2199.3	2163.6	2152.9	2180.2	2256.0	2343.5	2356.7	2325.4	2086.4	1690.0
27.5°	2502.8	2488.6	2435.8	2380.1	2321.0	2347.4	2440.7	2480.3	2480.8	2250.6	1799.5
30°	2766.2	2755.0	2712.0	2632.3	2530.2	2492.0	2561.0	2614.2	2646.0	2440.2	1924.1
32.5°	2991.5	2981.3	2923.1	2858.1	2758.4	2681.7	2706.6	2757.9	2832.2	2685.6	2079.1
35°	3181.2	3170.9	3115.2	3049.7	2957.3	2911.4	2902.6	2937.8	3034.1	2941.7	2257.0
37.5°	3335.1	3324.8	3266.7	3205.1	3134.7	3137.7	3150.9	3168.0	3223.2	3215.9	2447.1
40°	3434.8	3424.1	3382.5	3338.5	3294.1	3329.2	3394.7	3374.2	3403.5	3437.3	2622.0
42.5°	3479.3	3465.6	3441.7	3431.9	3418.2	3472.9	3599.0	3578.5	3543.3	3584.9	2752.1
45°	3434.8	3423.1	3422.6	3452.4	3484.2	3554.6	3740.3	3723.7	3634.7	3656.2	2829.8
47.5°	3298.5	3288.2	3316.0	3394.2	3472.4	3575.1	3803.3	3806.2	3699.7	3686.0	2880.1
50°	3003.7	2996.9	3077.5	3225.6	3360.5	3511.1	3783.3	3817.0	3715.3	3676.7	2873.7
52.5°	2404.6	2436.3	2611.8	2859.1	3121.0	3398.6	3709.0	3753.0	3640.1	3615.6	2839.5
55°	1646.1	1660.7	1836.2	2197.3	2612.8	3155.3	3538.4	3606.4	3551.1	3605.4	2875.2
57.5°	852.3	864.1	1002.4	1323.0	1772.1	2493.5	3064.8	3287.7	3371.8	3657.2	2986.2
60°	349.9	359.7	416.9	571.8	893.9	1452.0	2205.6	2536.0	2733.5	3340.0	2651.9
62.5°	254.1	259.0	286.4	341.1	468.2	711.6	1248.2	1369.9	1508.7	2093.2	1683.7
65°	214.1	219.4	241.4	274.7	341.6	436.4	533.2	536.1	590.9	852.8	624.1
67.5°	179.4	184.3	203.8	232.1	276.1	309.9	286.4	286.9	285.9	309.4	299.1
70°	139.8	143.7	163.2	193.5	216.5	198.9	223.8	247.8	237.5	246.8	261.0
72.5°	102.1	106.5	123.6	146.6	140.8	141.7	181.3	205.8	199.9	210.2	223.4
75°	73.8	76.7	85.5	73.3	77.2	93.3	127.6	140.8	146.6	155.4	167.1
77.5°	23.9	23.9	26.9	33.7	42.0	51.8	65.0	70.4	79.2	88.9	97.3
80°	12.2	12.7	15.2	18.6	23.5	29.8	38.1	40.6	45.0	50.3	53.8
82.5°	5.9	6.4	7.3	9.3	12.2	15.6	21.0	23.5	26.4	29.8	32.3
85°	1.5	1.5	2.0	2.9	3.9	5.9	7.8	9.3	11.7	14.2	15.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.5	1.5	2.0	2.4	2.9	3.9
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°	909.0	909.0	909.0	909.0	909.0	909.0	909.0	909.0	909.0	909.0	909.0
2.5°	926.1	898.8	863.6	833.8	806.4	785.4	767.3	758.5	750.2	744.3	746.3
5°	951.6	904.6	839.2	793.7	765.8	751.7	741.9	737.0	736.0	732.1	730.7
7.5°	988.7	921.7	834.3	788.3	769.8	762.4	757.0	754.1	755.6	751.7	750.2
10°	1034.6	950.1	846.5	805.9	789.8	784.4	778.6	774.6	772.7	766.8	765.8
12.5°	1091.8	985.3	868.5	828.4	812.3	803.0	795.2	788.3	783.9	776.6	774.6
15°	1153.4	1024.4	894.4	850.4	831.3	817.6	804.9	794.7	786.9	777.1	775.6
17.5°	1220.4	1065.4	915.9	865.5	841.1	823.0	804.5	789.3	778.6	765.8	764.4
20°	1290.3	1107.0	932.0	872.9	841.6	817.2	792.2	772.2	758.5	745.8	744.8
22.5°	1362.6	1145.1	941.8	870.9	833.8	803.5	773.7	751.2	735.1	719.9	718.9
25°	1435.4	1181.8	944.2	863.1	818.1	782.9	753.1	726.7	708.7	691.6	689.6
27.5°	1509.2	1212.5	938.4	847.5	797.1	759.0	729.2	703.3	684.7	667.6	664.7
30°	1587.9	1238.9	925.7	826.9	772.7	733.6	704.3	684.7	667.1	650.0	647.1
32.5°	1672.0	1261.9	907.6	802.0	744.3	708.2	686.7	669.1	651.5	636.3	633.4
35°	1772.1	1277.1	880.7	769.8	717.9	689.6	674.9	654.4	632.9	616.3	614.8
37.5°	1875.8	1288.8	848.4	739.0	695.0	678.8	666.6	638.8	611.9	591.9	589.4
40°	1975.9	1298.6	808.4	710.1	674.0	671.0	654.4	619.7	573.3	550.8	548.8
42.5°	2069.3	1301.5	766.3	679.3	654.9	653.4	634.9	581.1	545.4	531.3	529.3
45°	2133.3	1299.1	722.8	650.5	635.8	628.0	608.5	553.2	531.3	518.5	516.1
47.5°	2180.7	1286.3	674.0	620.2	614.3	603.6	561.6	535.7	515.1	502.4	500.0
50°	2172.4	1233.6	624.6	590.9	588.4	579.1	527.3	513.7	495.6	481.9	479.9
52.5°	2129.4	1133.4	574.3	558.6	563.5	545.4	502.9	487.3	471.6	456.0	452.6
55°	2140.2	1061.0	536.1	527.3	536.1	495.1	475.5	458.9	444.3	429.1	426.2
57.5°	2187.1	989.7	495.6	493.6	502.9	456.5	440.3	419.3	398.3	386.1	386.1
60°	1836.7	721.4	424.2	429.1	450.1	425.2	411.0	389.5	366.5	355.8	355.8
62.5°	1086.0	452.6	351.9	346.5	359.7	375.3	383.2	365.6	338.2	324.0	324.5
65°	478.5	329.4	310.3	305.9	302.0	312.8	334.3	335.8	306.9	290.3	290.8
67.5°	294.7	298.1	290.3	286.9	283.5	281.5	279.6	280.5	272.7	257.6	257.1
70°	265.9	275.2	269.8	266.8	262.4	259.0	247.3	228.2	215.0	211.1	215.5
72.5°	228.7	241.4	238.5	237.0	231.7	223.4	207.7	189.1	173.5	163.7	165.7
75°	172.5	182.8	184.3	184.7	178.9	171.1	154.9	139.3	125.6	115.3	117.8
77.5°	99.2	105.1	106.5	108.0	103.6	100.7	89.9	78.7	71.4	60.6	63.5
80°	55.2	57.7	57.7	58.2	55.7	52.3	45.0	38.6	35.2	30.3	30.8
82.5°	33.2	34.2	34.7	35.2	33.7	30.3	24.9	20.5	18.6	16.1	15.6
85°	16.1	17.1	17.1	17.6	15.2	13.2	10.3	7.8	6.8	4.9	5.4
87.5°	3.9	4.4	4.4	3.9	3.4	2.4	1.5	0.5	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)