

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: P631423

Luminaire Tested: GWS-SA1F-760-U-AFL-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P631423  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-47)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA1F-760-U-AFL-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (16) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

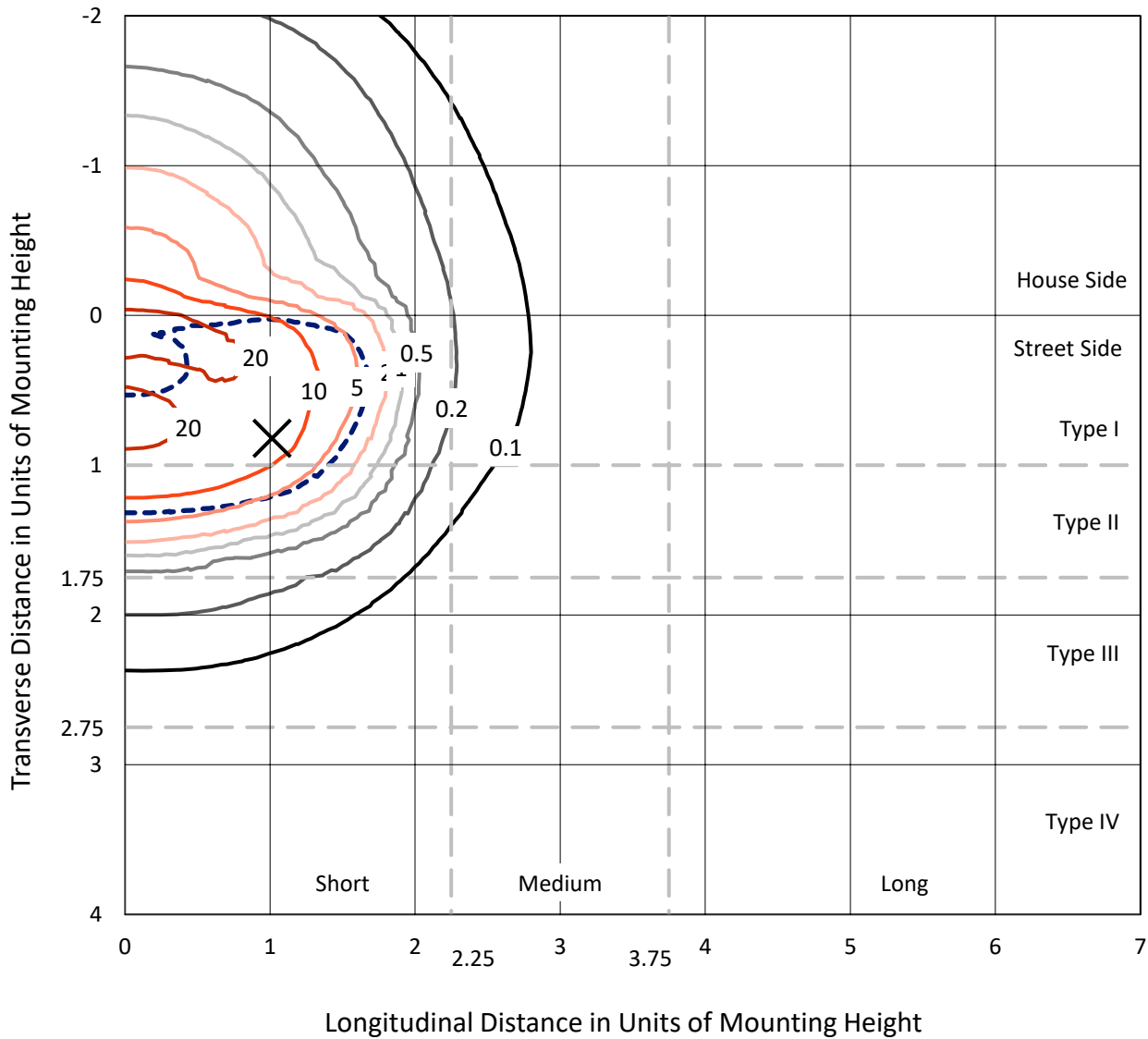
Lumens per Lamp: N/A  
Luminaire Lumens: 7711.1 lumens  
Efficiency: N/A  
Efficacy: 114.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1  
  
Input Watts (W): 67.2  
Input Voltage (V): 120  
Input Current (Ain): 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

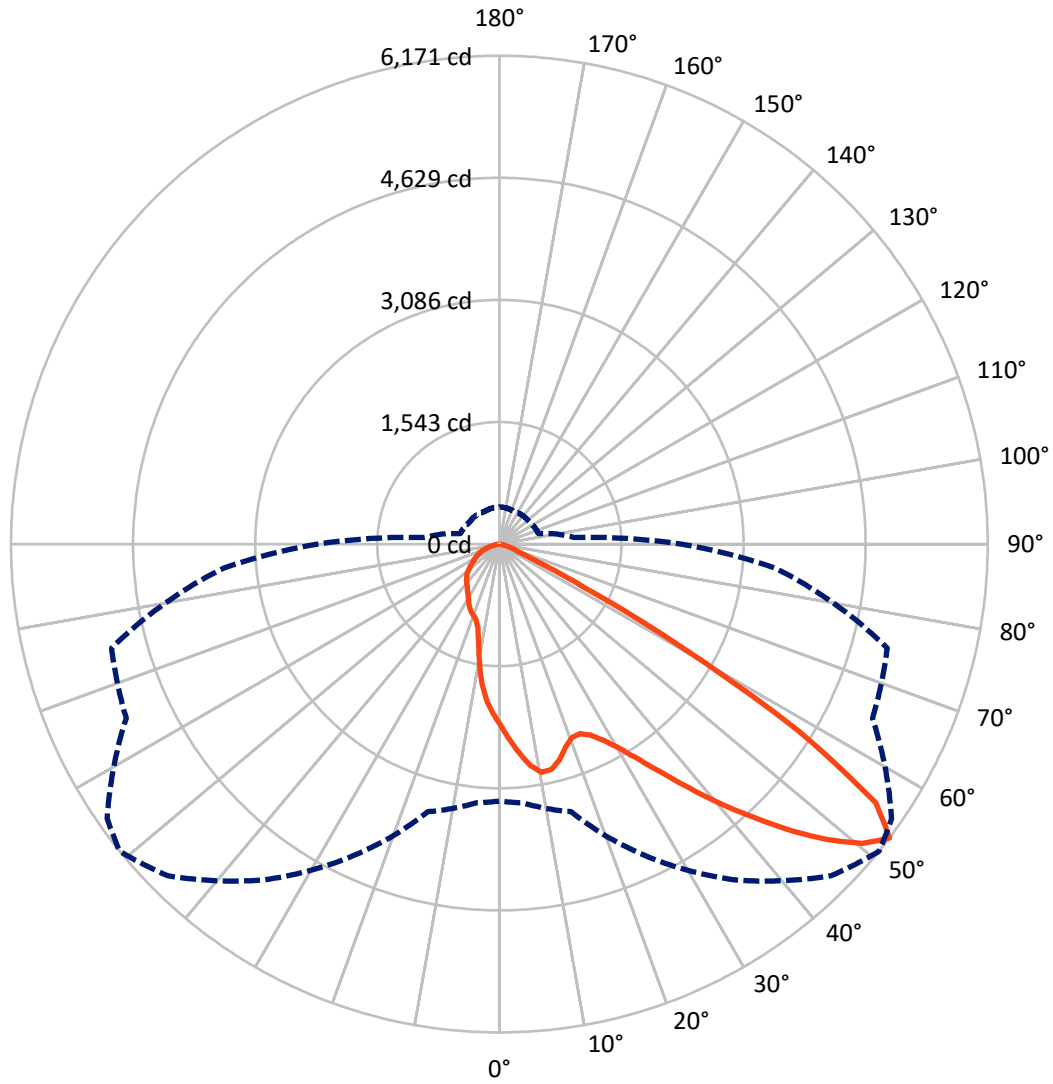
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 28 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 51-Deg Lateral    - - - Horizontal Cone Through 52.5-Deg Vertical

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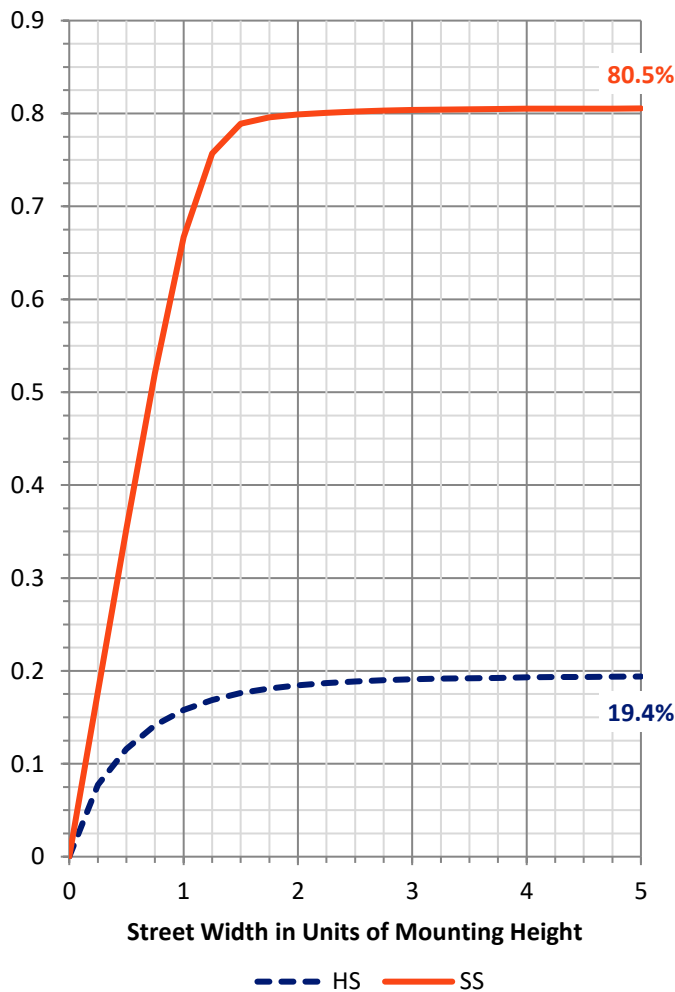
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1502.5	0.0	1502.5
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	6208.7	0.0	6208.7
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	7711.1	0.0	7711.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.2	2.8
10°-20°	556.7	7.2
20°-30°	905.1	11.7
30°-40°	1434.5	18.6
40°-50°	2163.5	28.1
50°-60°	1871.6	24.3
60°-70°	424.3	5.5
70°-80°	125.1	1.6
80°-90°	16.1	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°	7711.1	100.0
0°-180°	7711.1	100.0

**Coefficient of Utilization**



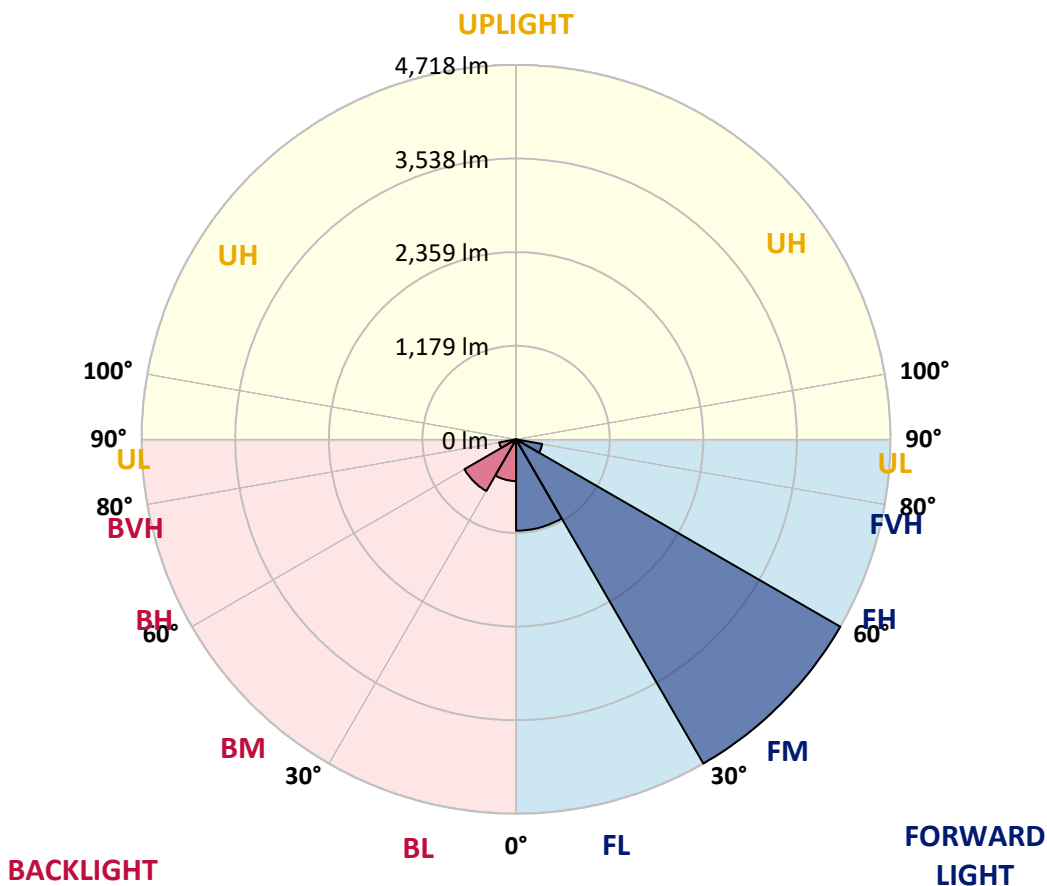
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1150.9	14.9			
FM (30°-60°)	4717.8	61.2			
FH (60°-80°)	333.9	4.3			G0/660
FVH (80°-90°)	6.1	0.1			G0/10
BL (0°-30°)	525.2	6.8	B2/1000		
BM (30°-60°)	751.7	9.7	B1/1000		
BH (60°-80°)	215.5	2.8	B1/500		G1/500
BVH (80°-90°)	10.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	51°	55°	65°	75°	85°
0°	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0
2.5°	2558.6	2573.2	2550.7	2542.2	2528.1	2503.8	2475.7	2467.8	2407.5	2367.9	2323.4
5°	2815.7	2823.7	2805.4	2787.1	2752.4	2709.1	2654.9	2643.3	2533.6	2442.8	2348.4
7.5°	2873.0	2870.0	2885.8	2896.2	2891.9	2874.8	2826.7	2804.2	2673.2	2529.4	2389.8
10°	2646.3	2629.3	2687.8	2757.2	2840.7	2937.0	2931.5	2929.7	2815.7	2645.7	2442.8
12.5°	2345.9	2337.4	2384.9	2472.1	2629.9	2843.2	2923.0	2985.1	2944.3	2756.6	2501.9
15°	2174.1	2171.1	2203.4	2266.1	2391.6	2661.0	2831.6	2954.7	3054.6	2875.5	2564.7
17.5°	2143.0	2144.9	2155.8	2191.8	2282.0	2503.8	2701.2	2873.0	3140.5	3005.9	2643.3
20°	2233.8	2246.0	2227.1	2232.6	2281.4	2447.1	2612.2	2790.8	3195.4	3136.9	2728.0
22.5°	2435.5	2431.3	2389.8	2365.4	2366.1	2481.8	2602.5	2752.4	3231.3	3264.2	2804.8
25°	2664.0	2659.1	2609.8	2555.6	2521.4	2576.3	2672.5	2793.2	3263.6	3380.6	2866.3
27.5°	2934.0	2918.7	2863.9	2794.4	2718.9	2742.6	2807.8	2903.5	3313.6	3495.2	2907.1
30°	3195.4	3213.0	3134.4	3052.2	2972.3	2957.7	2995.5	3082.0	3415.3	3629.2	2955.9
32.5°	3542.1	3536.0	3448.8	3341.6	3227.7	3216.7	3246.5	3325.8	3598.1	3814.4	3030.2
35°	3961.9	3963.1	3839.4	3694.4	3532.3	3503.1	3553.0	3629.8	3870.5	4065.5	3147.8
37.5°	4398.2	4396.4	4288.5	4124.0	3902.8	3861.4	3918.6	3975.9	4211.1	4407.3	3330.6
40°	4704.1	4716.3	4665.7	4579.2	4369.6	4268.4	4319.0	4358.6	4581.6	4809.5	3571.3
42.5°	4877.7	4896.0	4907.0	4958.8	4848.5	4740.6	4722.4	4743.1	4912.5	5183.0	3797.4
45°	4914.9	4939.3	5019.1	5211.0	5253.7	5223.2	5163.5	5113.6	5159.3	5448.1	3945.5
47.5°	4751.0	4793.6	4964.3	5300.0	5549.2	5644.9	5578.5	5502.3	5301.8	5516.3	3930.2
50°	4101.4	4151.4	4535.9	5118.4	5591.3	5939.8	5945.9	5833.2	5284.8	5319.5	3738.9
52.5°	3247.2	3281.3	3501.2	4339.1	5178.7	5927.6	6171.4	6050.7	5202.5	5073.3	3499.4
55°	1940.7	1995.6	2200.9	2862.7	4034.4	5253.7	5772.9	5831.3	5162.3	4866.8	3336.1
57.5°	655.0	681.8	878.1	1264.4	2377.6	3846.7	4460.3	4698.0	4686.4	4551.1	3017.4
60°	312.0	318.1	357.7	479.5	951.8	2010.2	2640.3	2914.5	3164.3	3189.3	1877.4
62.5°	237.6	241.3	261.4	287.6	382.7	847.0	1210.1	1419.8	1516.6	1301.5	683.7
65°	198.6	201.7	216.9	233.4	260.2	366.8	464.3	535.6	482.6	376.0	326.0
67.5°	165.7	168.2	179.8	197.4	215.7	245.6	257.7	265.1	277.9	312.0	299.8
70°	129.8	132.2	144.4	159.6	177.3	184.6	196.2	203.5	229.1	273.0	271.8
72.5°	99.9	103.0	109.7	119.4	134.1	141.4	154.2	162.7	177.3	212.7	227.3
75°	73.1	74.9	81.0	84.1	85.9	84.1	96.9	106.6	126.1	139.5	143.2
77.5°	29.9	33.5	32.3	32.3	38.4	46.3	53.0	59.1	72.5	80.4	81.0
80°	12.2	13.4	15.8	17.7	21.3	27.4	31.7	34.1	40.2	45.1	48.7
82.5°	7.3	7.9	9.1	9.7	12.2	15.8	18.3	20.1	25.0	29.9	31.7
85°	3.7	3.7	4.3	4.9	6.1	7.3	8.5	9.7	12.8	15.8	17.7
87.5°	0.6	0.6	0.6	1.2	1.8	2.4	3.0	3.7	4.3	4.9	6.1
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°	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0	2296.0
2.5°	2297.2	2264.3	2225.9	2195.4	2160.1	2133.9	2096.7	2073.6	2051.6	2033.4	2019.9
5°	2299.6	2244.2	2164.4	2093.7	2020.6	1951.1	1879.8	1821.9	1770.1	1726.9	1723.2
7.5°	2313.6	2233.8	2108.9	1985.2	1842.6	1704.9	1567.2	1455.1	1369.8	1325.3	1316.2
10°	2337.4	2232.6	2052.2	1854.8	1611.7	1389.9	1226.6	1141.3	1091.9	1074.3	1068.2
12.5°	2362.4	2229.6	1979.7	1670.8	1333.2	1138.8	1049.3	1038.9	1048.1	1049.3	1048.7
15°	2392.9	2227.7	1888.3	1455.1	1129.7	1022.5	1028.6	1050.5	1071.8	1076.7	1076.7
17.5°	2430.0	2223.5	1764.0	1244.3	1002.4	999.9	1032.2	1061.5	1081.6	1085.2	1085.2
20°	2469.0	2212.5	1611.1	1072.4	950.6	985.9	1020.6	1043.2	1057.2	1062.1	1062.7
22.5°	2495.8	2183.3	1435.0	945.1	918.3	959.1	984.1	1007.2	1007.2	995.0	991.4
25°	2501.3	2120.5	1244.3	857.9	879.9	917.7	943.3	929.8	904.9	895.1	894.5
27.5°	2481.2	2029.1	1056.0	795.8	833.6	871.4	867.1	847.6	836.6	826.9	830.5
30°	2456.8	1919.4	892.7	744.6	780.0	817.1	802.5	795.8	787.9	776.9	779.3
32.5°	2440.4	1796.9	767.2	705.0	744.0	750.1	760.5	759.8	752.5	731.8	730.6
35°	2445.3	1673.2	683.1	672.7	714.1	711.7	731.2	727.5	677.0	648.3	646.5
37.5°	2484.3	1554.4	633.7	647.1	666.6	681.8	698.9	655.0	637.4	619.1	620.3
40°	2558.6	1444.1	606.9	633.1	638.0	660.5	620.9	620.3	612.4	595.9	595.3
42.5°	2642.7	1350.9	588.6	626.4	619.7	624.0	581.9	586.8	586.2	575.8	572.8
45°	2693.9	1265.0	574.0	601.4	603.2	560.6	547.8	553.3	556.3	550.8	550.2
47.5°	2640.9	1166.3	558.8	563.0	578.9	532.0	516.1	516.7	522.2	522.8	520.4
50°	2492.2	1056.0	540.5	530.1	519.8	502.1	487.5	484.4	489.9	495.4	497.2
52.5°	2300.2	950.6	510.0	494.2	469.8	469.8	463.1	453.3	460.7	468.0	470.4
55°	2159.5	872.6	466.8	449.1	422.3	431.4	430.2	421.7	431.4	436.9	438.7
57.5°	1871.3	701.3	410.7	405.2	382.7	393.6	396.1	385.1	380.2	381.4	383.3
60°	1110.8	452.7	370.5	369.9	349.8	362.6	369.9	358.9	344.3	346.1	348.5
62.5°	498.4	346.1	319.9	317.5	316.9	333.3	341.2	330.9	310.2	312.0	314.4
65°	313.8	299.2	277.9	277.9	287.6	301.6	307.7	299.2	275.4	272.4	274.8
67.5°	291.3	278.5	256.5	252.3	257.1	268.7	269.3	252.9	238.9	236.4	236.4
70°	261.4	251.7	230.3	221.8	220.0	219.4	217.5	213.3	204.1	201.7	202.9
72.5°	216.3	209.6	196.2	187.1	182.2	181.6	174.3	170.6	162.7	161.5	160.9
75°	143.2	145.0	145.0	143.8	139.5	137.7	129.8	126.1	117.0	113.3	112.7
77.5°	84.7	86.5	89.0	89.6	89.0	89.0	81.7	77.4	68.2	63.4	62.2
80°	51.8	53.0	54.2	56.1	53.6	51.8	45.1	40.8	36.6	33.5	32.9
82.5°	33.5	34.7	35.3	36.6	35.3	32.9	27.4	25.0	21.9	19.5	18.9
85°	18.9	19.5	20.7	20.7	18.9	17.1	14.0	12.2	10.4	9.1	9.1
87.5°	6.7	6.7	6.7	7.3	6.1	5.5	3.7	2.4	1.8	1.8	1.8
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)