

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: P642025

Luminaire Tested: GWS-SA6C-722-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642025  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA6C-722-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (96) 2200K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

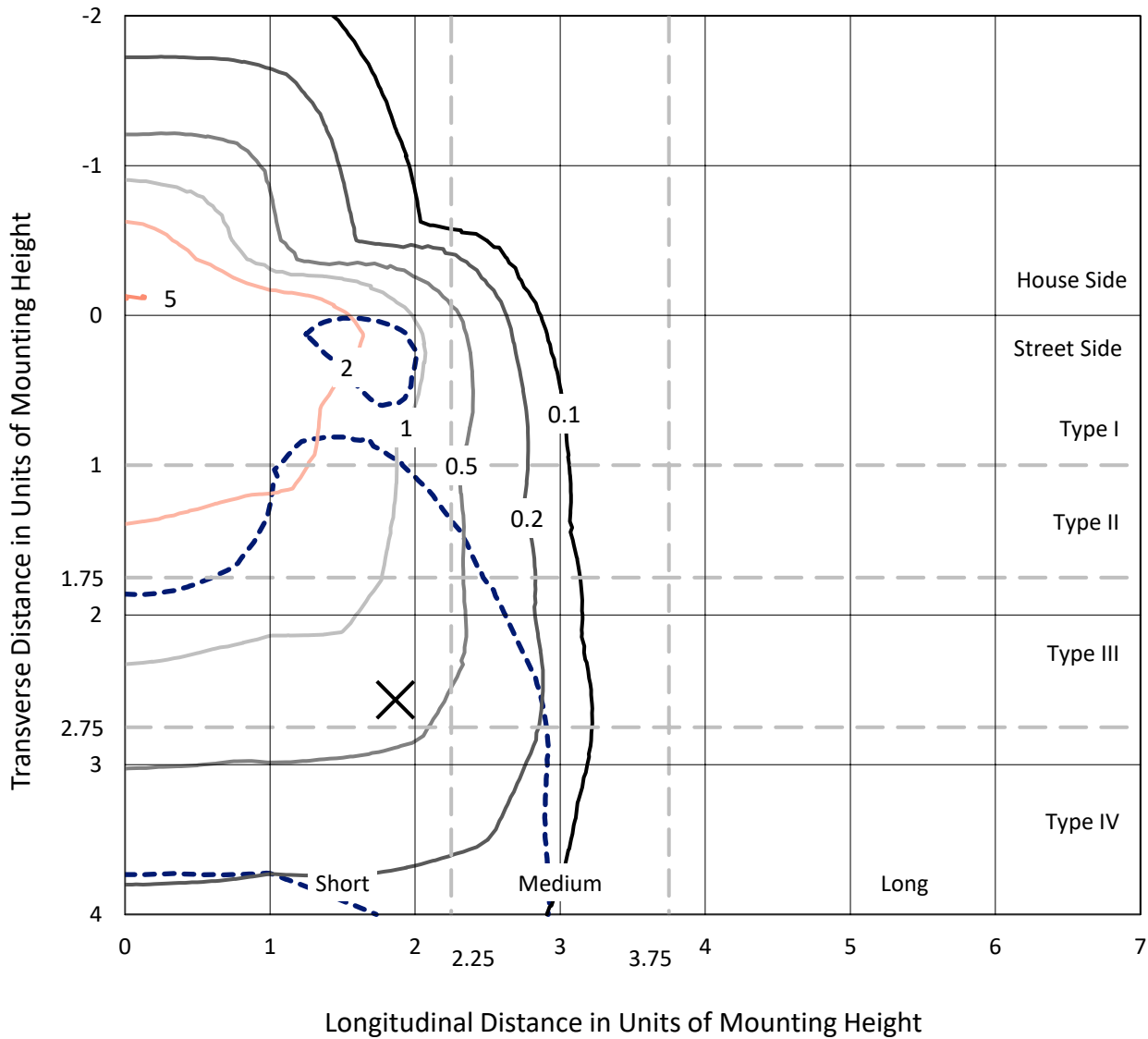
Lumens per Lamp: N/A  
Luminaire Lumens: 20202.5 lumens  
Efficiency: N/A  
Efficacy: 106.8 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 189.2  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

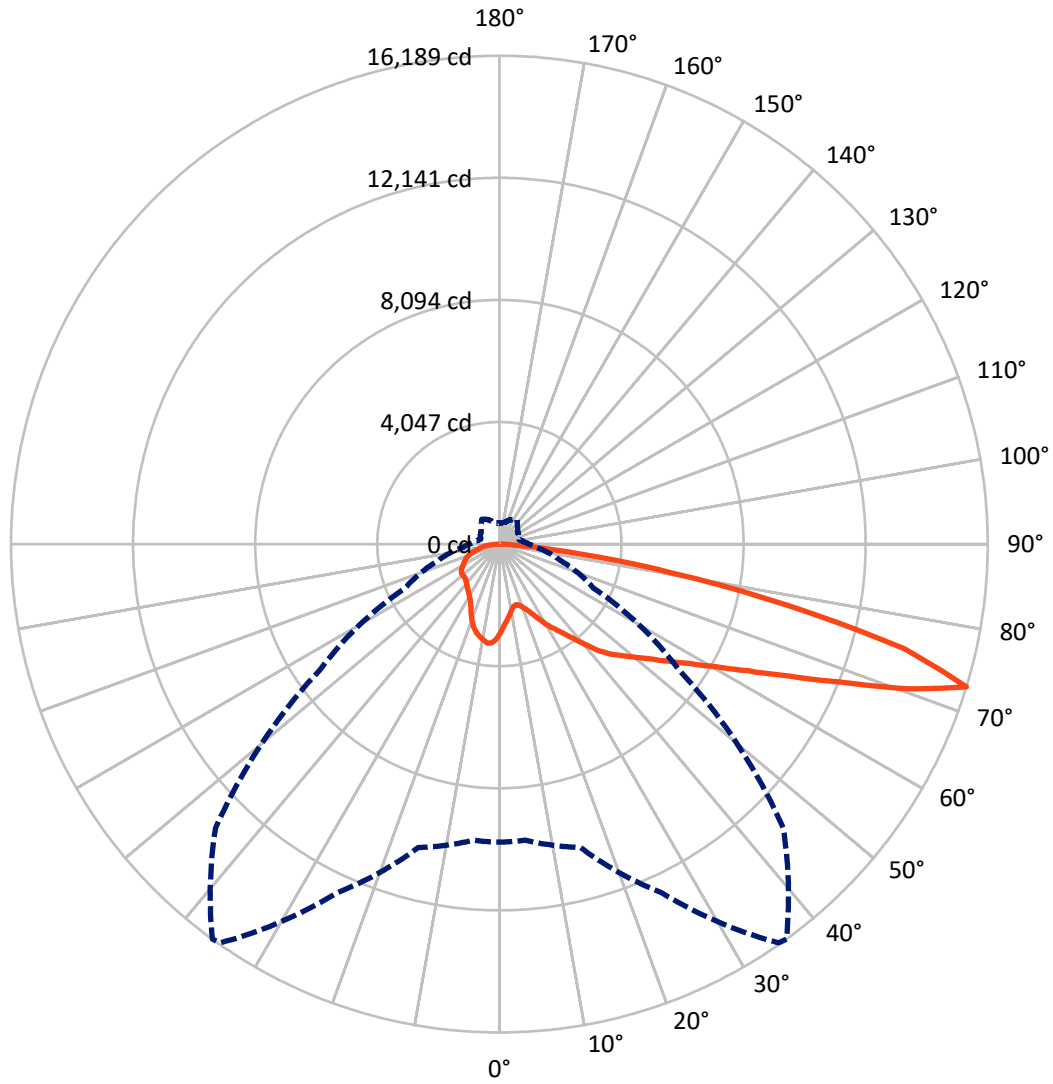
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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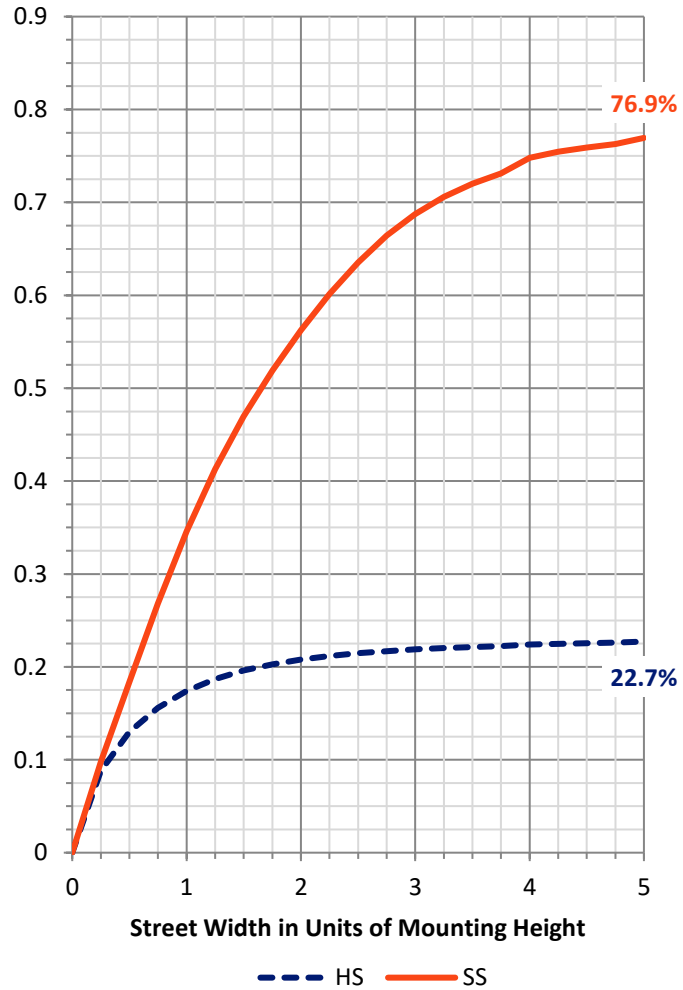
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4657.5	0.0	4657.5
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	15544.9	0.0	15544.9
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	20202.5	0.0	20202.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	276.4	1.4
10°-20°	779.8	3.9
20°-30°	1291.4	6.4
30°-40°	1933.9	9.6
40°-50°	2821.5	14.0
50°-60°	4015.8	19.9
60°-70°	5073.7	25.1
70°-80°	3615.4	17.9
80°-90°	394.7	2.0
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°	20202.5	100.0
0°-180°	20202.5	100.0

**Coefficient of Utilization**



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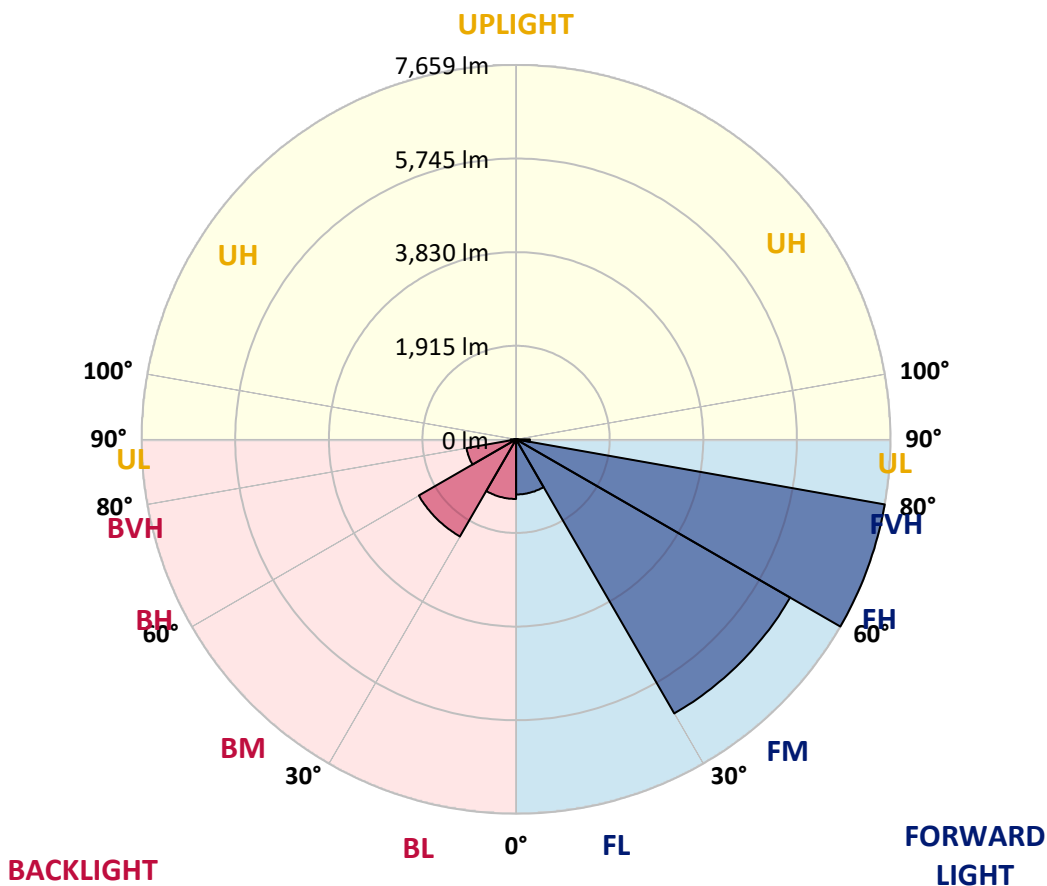
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1127.8	5.6			
FM (30°-60°)	6474.4	32.0			
FH (60°-80°)	7659.4	37.9			G4/12000
FVH (80°-90°)	283.3	1.4			G3/500
BL (0°-30°)	1219.7	6.0	B3/2500		
BM (30°-60°)	2296.8	11.4	B2/2500		
BH (60°-80°)	1029.7	5.1	B3/2500		G3/2500
BVH (80°-90°)	111.4	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2956.7	2956.7	2956.7	2956.7	2956.7	2956.7	2956.7	2956.7	2956.7	2956.7	2956.7
2.5°	2697.3	2692.8	2683.8	2710.8	2737.8	2734.8	2772.3	2808.3	2847.3	2887.8	2941.7
5°	2481.4	2478.4	2470.9	2511.4	2551.9	2550.4	2611.9	2670.3	2749.8	2836.8	2944.7
7.5°	2265.5	2258.0	2268.5	2319.5	2376.5	2382.5	2466.4	2562.4	2677.8	2808.3	2961.2
10°	2075.1	2073.6	2078.1	2135.1	2220.5	2226.5	2334.5	2467.9	2620.9	2794.8	2998.7
12.5°	2025.6	2022.6	2010.6	2039.1	2103.6	2112.6	2231.0	2394.5	2581.9	2802.3	3049.7
15°	2106.6	2099.1	2057.1	2043.6	2075.1	2082.6	2183.1	2351.0	2559.4	2815.8	3114.2
17.5°	2246.0	2241.5	2162.1	2106.6	2127.6	2133.6	2208.5	2343.5	2553.4	2842.8	3193.6
20°	2449.9	2430.5	2306.0	2222.0	2222.0	2231.0	2276.0	2376.5	2560.9	2875.8	3283.6
22.5°	2719.8	2680.8	2505.4	2391.5	2361.5	2373.5	2393.0	2458.9	2592.4	2931.2	3396.0
25°	3022.7	2986.7	2778.3	2617.9	2575.9	2580.4	2563.9	2575.9	2661.4	3007.7	3535.5
27.5°	3345.1	3321.1	3099.2	2895.3	2829.3	2829.3	2770.8	2742.3	2757.3	3094.7	3691.4
30°	3632.9	3599.9	3412.5	3189.1	3102.2	3102.2	2991.2	2929.7	2893.8	3201.1	3899.8
32.5°	3784.4	3764.9	3640.4	3469.5	3363.1	3346.6	3250.6	3178.6	3094.7	3358.6	4181.7
35°	3982.3	3977.8	3902.8	3769.4	3634.4	3610.4	3544.5	3487.5	3342.1	3555.0	4556.5
37.5°	4231.2	4223.7	4211.7	4132.2	3970.3	3965.8	3907.3	3838.3	3649.4	3838.3	5010.8
40°	4510.1	4496.6	4481.6	4480.1	4382.6	4366.1	4361.6	4283.7	4019.8	4180.2	5484.6
42.5°	4893.9	4847.4	4706.5	4769.4	4841.4	4826.4	4883.4	4766.4	4481.6	4586.5	5932.9
45°	5366.2	5252.2	4973.4	4991.3	5172.8	5202.8	5400.7	5372.2	4989.9	5055.8	6405.2
47.5°	5649.6	5550.6	5291.2	5276.2	5502.6	5540.1	5970.4	6024.4	5537.1	5621.1	6988.5
50°	5882.0	5813.0	5600.1	5621.1	5861.0	5898.5	6535.7	6651.1	6052.9	6199.8	7666.2
52.5°	6162.3	6063.4	5898.5	5997.4	6291.3	6336.3	7163.9	7288.4	6517.7	6835.6	8367.9
55°	6319.8	6279.3	6282.3	6433.7	6802.6	6864.0	7822.1	7801.1	6943.5	7379.8	8895.7
57.5°	6682.6	6667.6	6805.6	6862.5	7399.3	7478.8	8480.3	8300.4	7330.3	7801.1	9149.1
60°	7322.8	7285.4	7405.3	7492.3	8137.0	8249.4	9215.0	8789.2	7592.7	8114.5	9063.6
62.5°	8222.5	8176.0	8180.5	8318.4	9125.1	9243.5	10032.2	9197.0	7673.7	8162.5	8522.3
65°	9341.0	9273.5	9197.0	9384.5	10437.0	10536.0	10921.3	9493.9	7480.3	7700.7	7391.8
67.5°	10521.0	10465.5	10375.5	10768.4	12135.8	12195.7	11918.4	9468.4	6867.0	6465.2	5184.8
70°	10589.9	10603.4	11029.2	12450.6	14353.3	14368.3	12861.5	8955.6	5561.1	4190.7	2583.4
72.5°	9879.2	9856.8	10411.5	12758.0	16137.5	16188.5	13306.8	7255.4	3436.5	2090.1	1211.5
75°	8024.5	8063.5	8646.8	11162.7	13831.5	13876.5	10847.8	4277.7	1632.8	1022.6	775.2
77.5°	3454.5	3671.9	4821.9	7864.1	9906.2	9766.8	5591.1	1733.3	871.1	728.7	593.7
80°	997.1	1082.5	1718.3	3739.4	5935.9	5831.0	2213.0	649.2	607.2	547.3	425.8
82.5°	322.4	356.8	629.7	1488.9	2659.9	2656.9	839.6	383.8	397.3	371.8	274.4
85°	90.0	103.5	193.4	451.3	823.1	806.7	242.9	181.4	211.4	214.4	136.4
87.5°	0.0	0.0	1.5	3.0	3.0	3.0	6.0	27.0	61.5	78.0	55.5
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°	2956.7	2956.7	2956.7	2956.7	2956.7	2956.7	2956.7	2956.7	2956.7	2956.7	2956.7
2.5°	2974.7	2970.2	3031.7	3079.7	3124.7	3154.6	3163.6	3169.6	3181.6	3187.6	3181.6
5°	2995.7	3018.2	3120.2	3195.1	3255.1	3291.1	3292.6	3289.6	3298.6	3291.1	3286.6
7.5°	3040.7	3084.2	3213.1	3292.6	3331.6	3333.1	3297.1	3255.1	3234.1	3216.1	3210.1
10°	3100.7	3165.1	3306.1	3358.6	3346.6	3291.1	3211.6	3145.6	3108.2	3081.2	3075.2
12.5°	3183.1	3255.1	3388.5	3387.0	3312.1	3213.1	3120.2	3040.7	2986.7	2955.2	2944.7
15°	3261.1	3352.6	3448.5	3378.0	3259.6	3139.6	3019.7	2913.2	2841.3	2791.8	2782.8
17.5°	3357.1	3454.5	3492.0	3349.6	3193.6	3039.2	2878.8	2739.3	2641.9	2583.4	2578.9
20°	3468.0	3555.0	3513.0	3300.1	3108.2	2905.7	2688.3	2532.4	2427.5	2370.5	2375.0
22.5°	3597.0	3659.9	3519.0	3232.6	2989.7	2716.8	2473.9	2324.0	2253.5	2223.5	2225.0
25°	3734.9	3775.4	3508.5	3141.1	2808.3	2485.9	2253.5	2184.6	2178.6	2171.1	2174.1
27.5°	3898.3	3889.3	3477.0	3012.2	2563.9	2217.5	2099.1	2117.1	2141.1	2138.1	2141.1
30°	4117.2	4031.8	3436.5	2833.8	2273.0	1992.6	2007.6	2058.6	2090.1	2093.1	2102.1
32.5°	4367.6	4189.2	3372.0	2590.9	1995.6	1866.7	1922.2	1983.6	2021.1	2028.6	2040.6
35°	4666.0	4369.1	3258.1	2288.0	1796.2	1791.7	1842.7	1884.7	1925.2	1928.2	1928.2
37.5°	5009.3	4549.0	3076.7	1953.7	1673.3	1727.3	1775.2	1784.2	1794.7	1785.7	1790.2
40°	5324.2	4723.0	2818.8	1649.3	1572.8	1670.3	1710.8	1680.8	1647.8	1625.3	1629.8
42.5°	5588.1	4841.4	2476.9	1436.4	1470.9	1619.3	1650.8	1589.3	1524.8	1482.9	1488.9
45°	5885.0	4950.9	2075.1	1292.4	1383.9	1583.3	1604.3	1524.8	1442.4	1379.4	1370.4
47.5°	6294.3	5174.3	1718.3	1192.0	1322.4	1563.8	1598.3	1490.4	1382.4	1287.9	1277.4
50°	6799.6	5490.6	1419.9	1126.0	1293.9	1553.3	1596.8	1452.9	1323.9	1213.0	1205.5
52.5°	7351.3	5799.5	1199.5	1075.0	1265.5	1521.8	1589.3	1410.9	1262.5	1142.5	1133.5
55°	7718.7	5920.9	1051.0	1027.1	1219.0	1472.4	1559.3	1370.4	1169.5	1060.0	1046.5
57.5°	7826.6	5765.0	947.6	983.6	1159.0	1403.4	1502.4	1284.9	1112.5	1025.6	1015.1
60°	7640.7	5372.2	883.1	947.6	1093.0	1314.9	1403.4	1235.5	1067.5	989.6	982.1
62.5°	7115.9	4766.4	833.6	910.1	1025.6	1222.0	1340.4	1175.5	1018.1	956.6	946.1
65°	6060.4	3908.8	793.2	871.1	961.1	1133.5	1271.5	1115.5	964.1	917.6	905.6
67.5°	4238.7	2745.3	749.7	824.6	896.6	1048.0	1199.5	1060.0	908.6	874.1	862.1
70°	2072.1	1455.9	697.2	770.7	827.6	961.1	1127.5	992.6	835.1	815.6	799.2
72.5°	986.6	814.1	635.7	697.2	733.2	845.6	1007.6	895.1	748.2	706.2	677.7
75°	661.2	578.8	554.8	610.2	619.2	709.2	863.6	772.2	659.7	611.7	587.7
77.5°	500.8	442.3	466.3	515.8	497.8	583.2	710.7	688.2	595.2	551.8	539.8
80°	352.3	322.4	370.3	400.3	386.8	496.3	640.2	589.2	490.3	442.3	433.3
82.5°	221.9	215.9	272.9	277.4	281.9	392.8	526.3	463.3	380.8	313.4	290.9
85°	111.0	122.9	163.4	163.4	161.9	202.4	299.9	260.9	205.4	163.4	158.9
87.5°	37.5	52.5	70.5	57.0	43.5	34.5	39.0	48.0	51.0	49.5	49.5
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)