

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: P639493

Luminaire Tested: GWS-SA5B-830-U-T3R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639493  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-830-U-T3R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

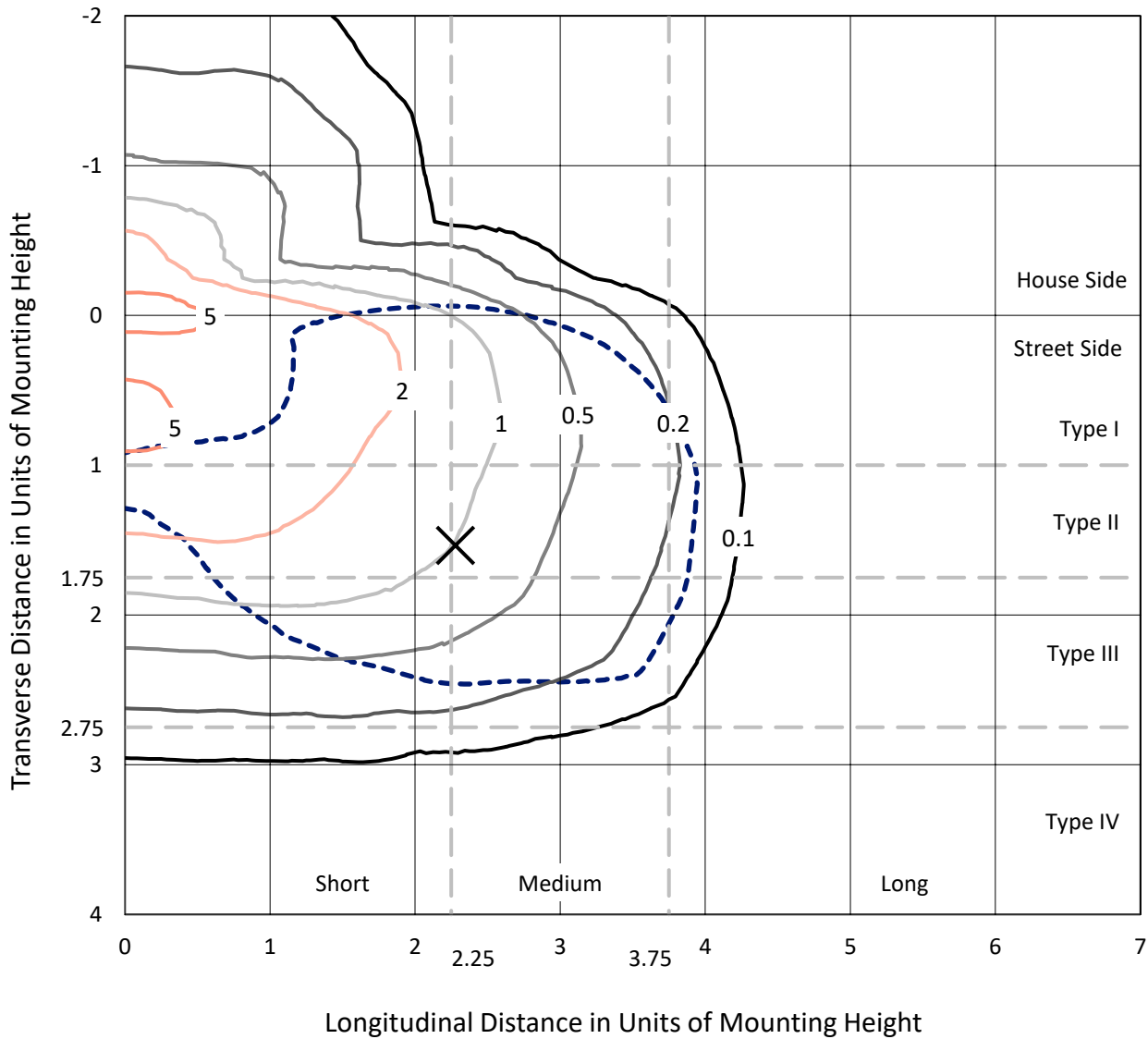
Lumens per Lamp: N/A  
Luminaire Lumens: 14339.1 lumens  
Efficiency: N/A  
Efficacy: 123.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G3  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

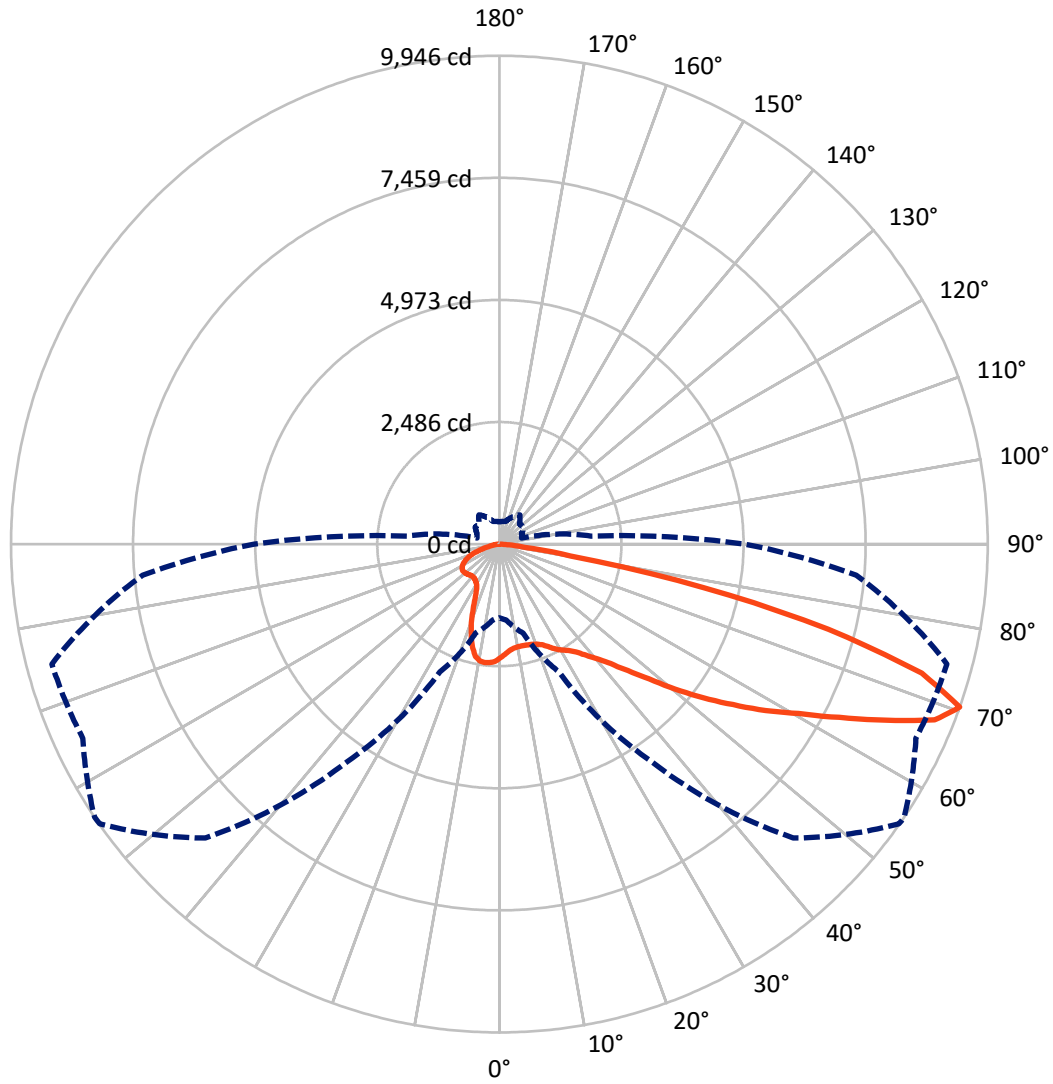
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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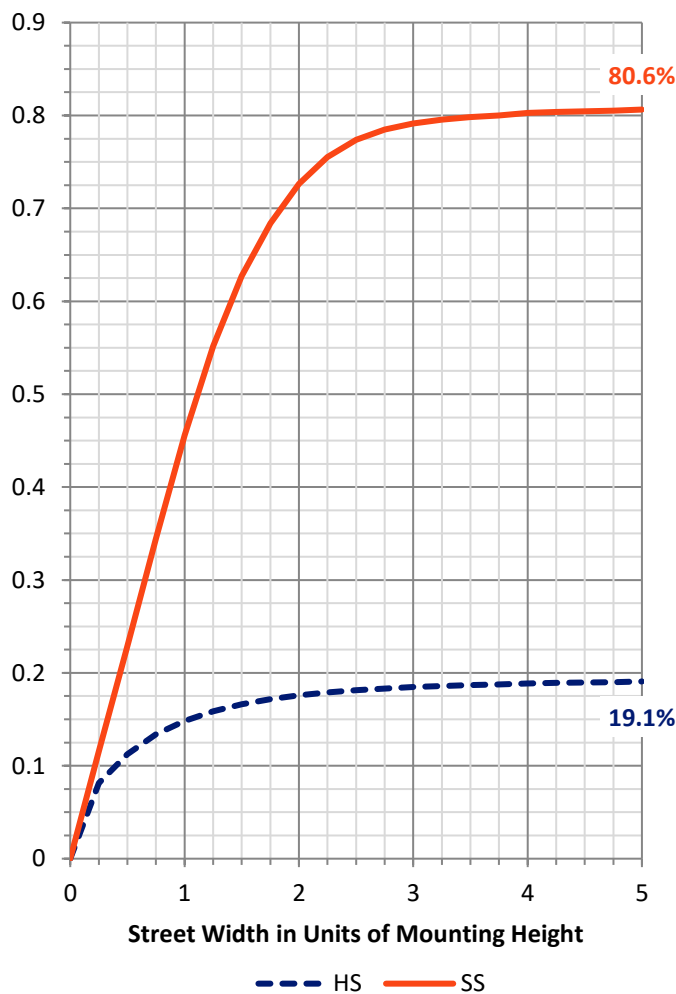
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2756.7	0.0	2756.7
	% Fixture	19.2	0.0	19.2
<b>Street Side</b>	Lumens	11582.4	0.0	11582.4
	% Fixture	80.8	0.0	80.8
<b>Total</b>	Lumens	14339.1	0.0	14339.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.2	1.5
10°-20°	580.3	4.0
20°-30°	959.5	6.7
30°-40°	1434.5	10.0
40°-50°	2134.8	14.9
50°-60°	3035.0	21.2
60°-70°	3759.0	26.2
70°-80°	2075.6	14.5
80°-90°	146.2	1.0
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°	14339.1	100.0
0°-180°	14339.1	100.0

**Coefficient of Utilization**



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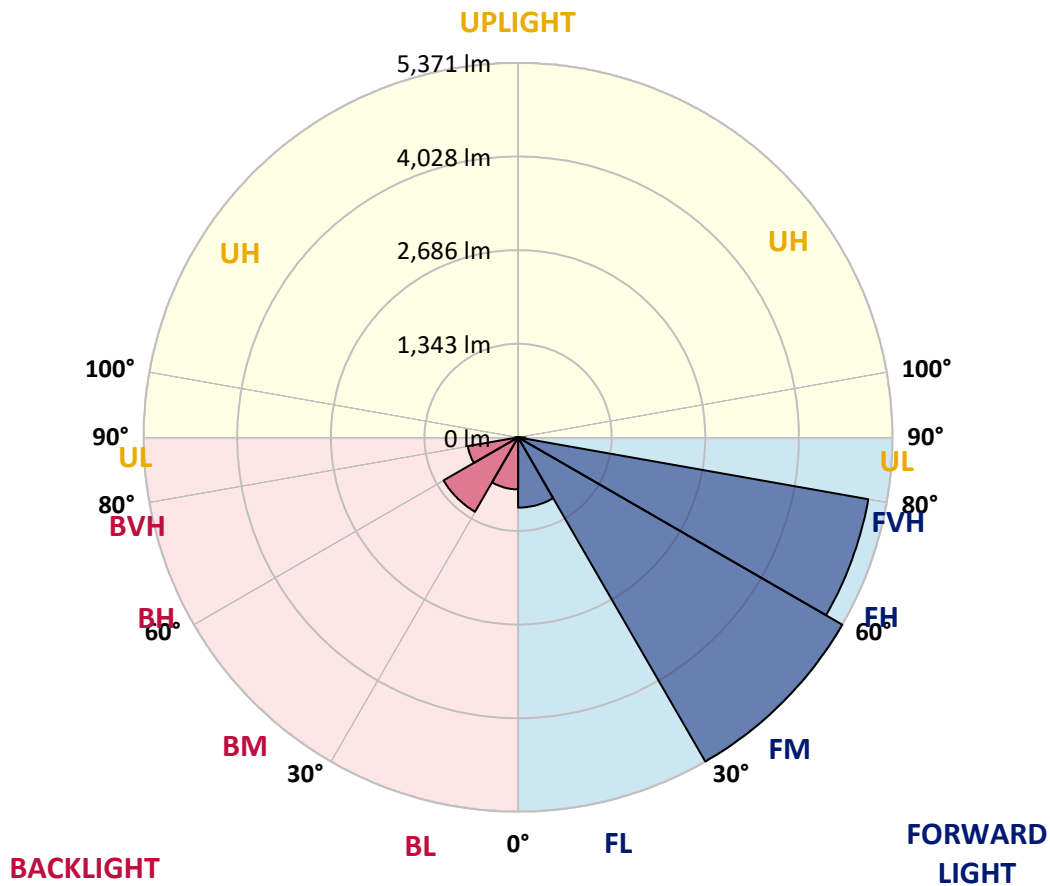
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1007.7	7.0			
FM (30°-60°)	5371.2	37.5			
FH (60°-80°)	5101.9	35.6			G3/7500
FVH (80°-90°)	101.6	0.7			G2/225
BL (0°-30°)	746.3	5.2	B2/1000		
BM (30°-60°)	1233.1	8.6	B2/2500		
BH (60°-80°)	732.7	5.1	B2/1000		G2/1000
BVH (80°-90°)	44.6	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-G3**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6
2.5°	2165.9	2153.8	2167.9	2175.0	2193.2	2219.5	2242.8	2243.8	2255.9	2285.2	2313.5
5°	2067.8	2061.8	2065.8	2087.0	2106.3	2139.6	2175.0	2178.0	2212.4	2270.1	2326.7
7.5°	1992.0	1983.9	1999.1	2026.4	2050.6	2088.1	2134.6	2138.6	2187.1	2274.1	2361.1
10°	1882.8	1876.7	1905.0	1941.4	1994.0	2055.7	2117.4	2122.4	2186.1	2300.4	2421.7
12.5°	1835.3	1835.3	1847.4	1881.8	1939.4	2021.3	2114.3	2122.4	2202.3	2340.8	2499.6
15°	1909.1	1914.1	1904.0	1902.0	1925.3	2003.1	2118.4	2130.5	2232.6	2382.3	2576.4
17.5°	2057.7	2062.8	2036.5	1995.0	1971.8	2020.3	2133.6	2146.7	2265.0	2427.8	2659.4
20°	2266.0	2272.1	2214.4	2150.7	2070.9	2069.8	2162.9	2175.0	2306.5	2477.3	2747.3
22.5°	2509.7	2513.8	2440.9	2339.8	2217.5	2161.9	2213.4	2225.6	2360.1	2546.1	2842.4
25°	2791.8	2804.0	2716.0	2569.4	2403.5	2288.3	2297.4	2311.5	2456.1	2638.1	2954.6
27.5°	3093.1	3108.3	3007.2	2845.4	2616.9	2427.8	2405.6	2417.7	2558.2	2694.7	3014.3
30°	3401.6	3412.7	3311.6	3126.5	2846.4	2585.5	2496.6	2503.6	2602.7	2722.0	3074.9
32.5°	3744.3	3735.2	3638.2	3424.8	3111.3	2774.6	2581.5	2579.5	2652.3	2776.7	3161.9
35°	4065.9	4079.0	3975.9	3740.3	3402.6	3008.2	2708.9	2700.8	2757.4	2865.6	3284.3
37.5°	4455.2	4451.1	4327.8	4073.0	3694.8	3231.7	2887.9	2873.7	2893.9	3004.2	3455.1
40°	4733.3	4761.6	4681.7	4444.1	4036.6	3506.7	3097.2	3065.8	3070.9	3175.1	3683.7
42.5°	4960.8	4987.1	4995.1	4843.5	4427.9	3846.5	3358.1	3326.7	3329.8	3477.4	3964.8
45°	5135.7	5171.1	5285.3	5240.9	4868.7	4238.8	3711.0	3678.6	3680.6	3844.4	4304.5
47.5°	5207.5	5245.9	5477.5	5583.6	5336.9	4708.0	4149.8	4102.3	4109.4	4290.4	4692.8
50°	5184.2	5235.8	5549.3	5847.6	5729.2	5185.2	4674.6	4641.2	4613.9	4876.8	5114.5
52.5°	4984.0	5040.6	5542.2	6015.4	6049.8	5636.2	5216.6	5197.4	5191.3	5499.7	5585.7
55°	4394.5	4489.6	5298.5	6059.9	6300.6	6060.9	5804.1	5771.7	5803.1	6167.1	6061.9
57.5°	4067.9	4138.7	4821.2	6010.4	6505.8	6465.4	6390.5	6393.6	6429.0	6892.1	6639.3
60°	3881.9	3964.8	4556.3	5874.9	6703.0	6956.8	7004.3	7004.3	7068.0	7673.7	7225.8
62.5°	3635.1	3719.1	4308.6	5614.0	6885.0	7535.2	7775.8	7772.8	7798.1	8512.0	7799.1
65°	3134.6	3212.5	3811.1	5202.4	6974.0	8172.2	8652.5	8643.4	8592.9	9258.2	8178.3
67.5°	2276.1	2349.9	2919.2	4419.8	6653.5	8685.9	9555.5	9559.5	9257.2	9728.4	8198.5
70°	1500.6	1551.1	1876.7	2870.7	5410.7	8464.4	9933.7	9945.8	9359.3	9435.2	7296.5
72.5°	936.3	971.7	1171.9	1711.9	3197.3	6700.0	8962.9	8996.3	8420.0	8291.5	5995.2
75°	621.9	646.1	779.6	998.0	1479.3	3626.0	6813.2	6920.4	6748.5	6499.8	4177.1
77.5°	374.1	394.4	496.5	634.0	655.2	1416.6	3976.9	4254.0	4278.2	3393.5	1749.3
80°	170.9	194.1	274.0	362.0	348.9	493.4	1402.5	1467.2	1731.1	1077.9	552.1
82.5°	101.1	111.2	182.0	180.0	148.6	239.6	504.6	517.7	439.9	394.4	235.6
85°	40.4	47.5	76.8	67.7	54.6	77.9	190.1	199.2	191.1	171.9	87.0
87.5°	0.0	0.0	0.0	0.0	1.0	2.0	17.2	18.2	26.3	47.5	26.3
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°	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6	2314.6
2.5°	2331.7	2325.7	2356.0	2379.3	2389.4	2399.5	2390.4	2387.4	2387.4	2367.1	2357.0
5°	2357.0	2360.1	2401.5	2420.7	2420.7	2412.6	2388.4	2371.2	2365.1	2338.8	2331.7
7.5°	2404.5	2417.7	2456.1	2455.1	2426.8	2382.3	2321.6	2275.1	2232.6	2214.4	2203.3
10°	2482.4	2499.6	2525.9	2483.4	2404.5	2287.2	2158.8	2057.7	1997.0	1948.5	1948.5
12.5°	2571.4	2587.6	2582.5	2484.4	2321.6	2102.2	1917.2	1800.9	1715.9	1671.5	1671.5
15°	2660.4	2673.5	2618.9	2437.9	2148.7	1856.5	1654.3	1514.7	1440.9	1399.4	1399.4
17.5°	2750.4	2749.4	2634.1	2330.7	1923.2	1584.5	1386.3	1278.1	1252.8	1245.8	1244.7
20°	2837.3	2814.1	2614.9	2151.8	1661.3	1310.5	1185.1	1192.2	1229.6	1245.8	1247.8
22.5°	2935.4	2877.8	2558.2	1923.2	1364.1	1120.4	1128.5	1187.1	1241.7	1266.0	1269.0
25°	3035.5	2932.4	2463.2	1655.3	1115.3	1050.6	1113.3	1179.0	1240.7	1272.0	1275.1
27.5°	3076.0	2932.4	2301.4	1344.8	982.9	1021.3	1090.0	1153.7	1218.5	1254.9	1261.9
30°	3109.3	2907.1	2074.9	1064.8	928.2	993.0	1052.6	1111.3	1175.0	1219.5	1227.6
32.5°	3155.8	2884.8	1800.9	894.9	903.0	965.7	1007.1	1056.7	1114.3	1143.6	1140.6
35°	3210.4	2850.5	1470.2	814.0	881.7	942.4	971.7	1001.1	974.8	973.7	976.8
37.5°	3288.3	2820.1	1182.0	777.6	867.6	926.2	950.5	887.8	851.4	836.2	830.2
40°	3400.5	2808.0	932.3	756.3	865.6	925.2	908.0	811.0	761.4	708.8	707.8
42.5°	3542.1	2798.9	770.5	746.2	872.6	948.5	849.4	760.4	658.3	635.0	633.0
45°	3724.1	2784.7	689.6	744.2	889.8	966.7	843.3	690.6	620.9	610.7	610.7
47.5°	3943.5	2762.5	653.2	744.2	909.0	958.6	825.1	675.5	603.7	614.8	621.9
50°	4195.3	2734.2	634.0	742.2	928.2	958.6	786.7	672.4	599.6	657.3	680.5
52.5°	4464.3	2701.8	620.9	734.1	941.4	959.6	788.7	682.5	603.7	667.4	686.6
55°	4761.6	2696.8	602.7	716.9	945.4	933.3	793.8	704.8	609.7	604.7	605.7
57.5°	5136.7	2757.4	589.5	691.6	929.3	879.7	803.9	721.0	602.7	603.7	610.7
60°	5529.0	2871.7	600.6	667.4	895.9	829.2	811.0	712.9	568.3	552.1	554.1
62.5°	5862.7	2958.7	609.7	656.2	847.4	784.7	803.9	694.7	549.1	545.0	554.1
65°	6002.3	2886.9	587.5	633.0	776.6	730.1	788.7	671.4	532.9	517.7	518.7
67.5°	5847.6	2550.2	544.0	581.4	696.7	660.3	764.4	641.1	510.6	492.4	488.4
70°	4995.1	1873.7	469.2	499.5	599.6	578.4	727.0	601.6	475.2	462.1	453.0
72.5°	4025.4	1326.6	389.3	397.4	470.2	487.4	662.3	552.1	434.8	397.4	384.2
75°	2801.9	833.2	324.6	316.5	339.8	372.1	516.7	458.1	375.1	335.7	323.6
77.5°	1205.3	427.7	253.8	249.8	226.5	257.8	396.4	382.2	314.5	269.0	261.9
80°	403.5	247.7	183.0	175.9	150.7	181.0	279.1	305.4	246.7	199.2	187.1
82.5°	202.2	143.6	116.3	105.2	101.1	114.3	164.8	190.1	170.9	137.5	116.3
85°	99.1	81.9	63.7	62.7	52.6	49.5	68.8	80.9	76.8	56.6	53.6
87.5°	36.4	32.4	20.2	16.2	10.1	7.1	4.0	4.0	3.0	3.0	3.0
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)