

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: P637682

Luminaire Tested: GWS-SA4D-730-U-T4W-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637682
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-52)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-T4W-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22109 lumens
Efficiency: N/A
Efficacy: 136.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

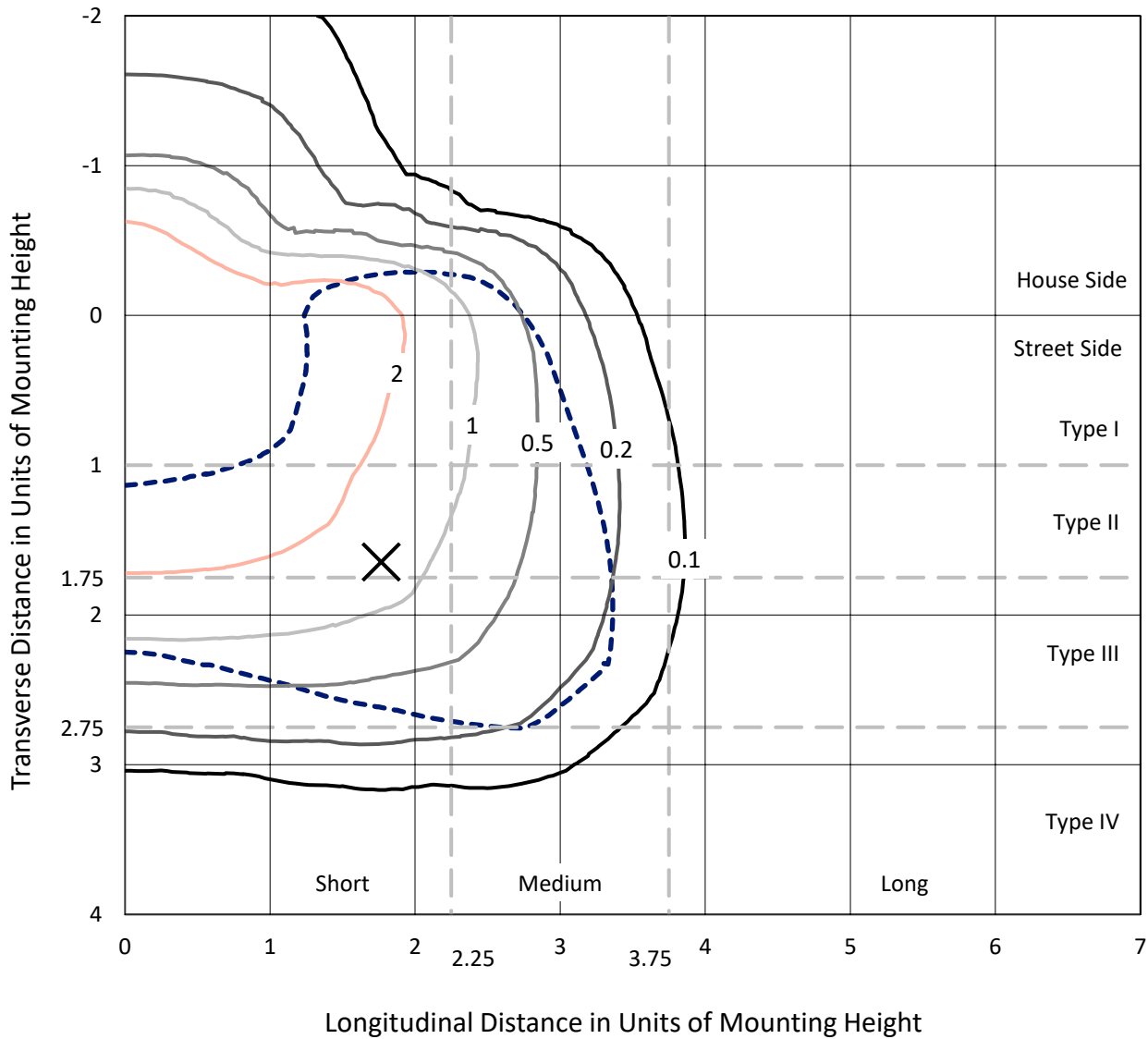
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

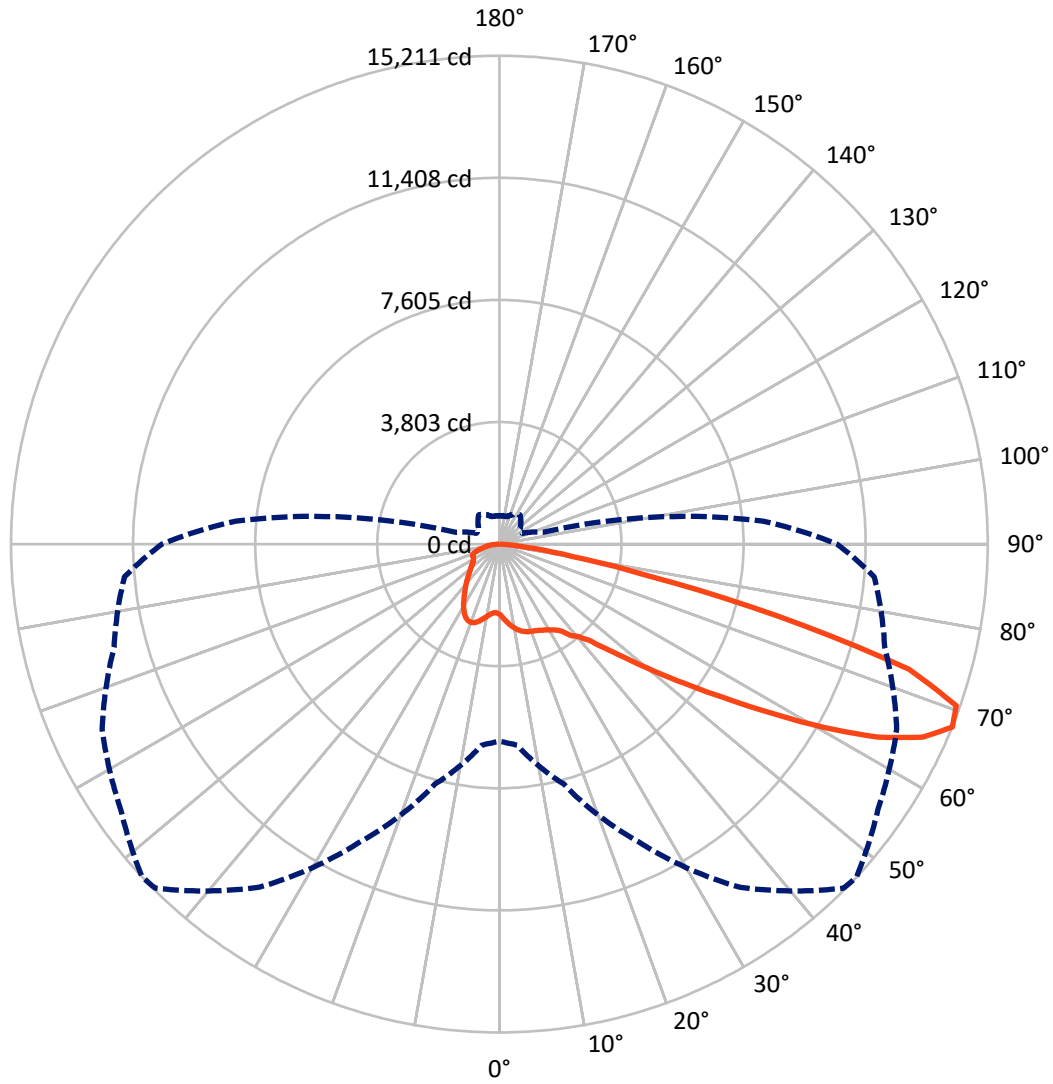
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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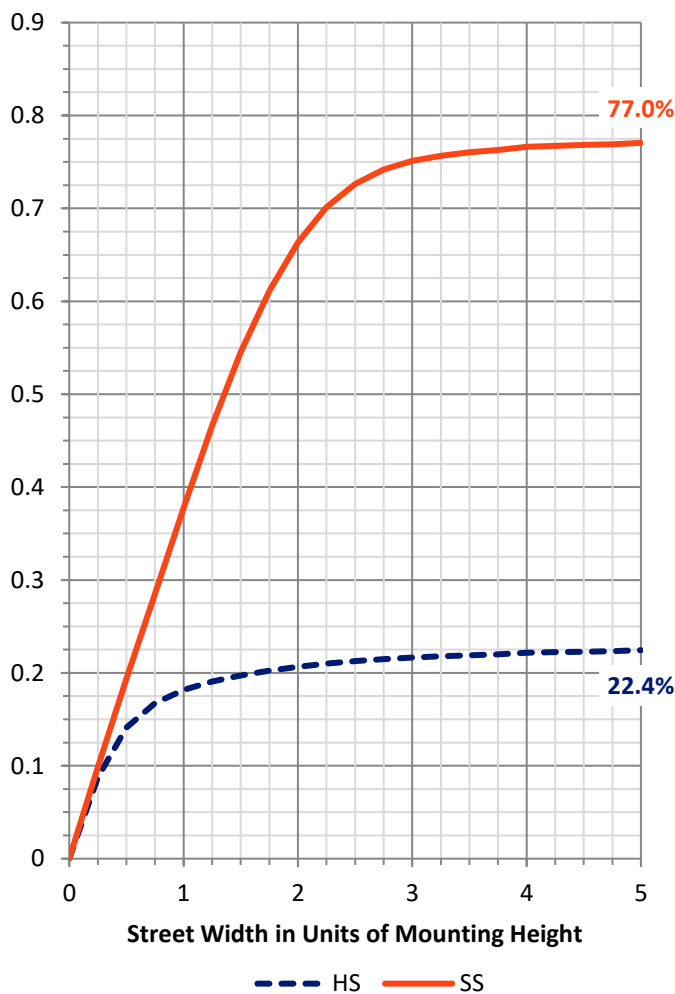
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5038.8	0.0	5038.8
	% Fixture	22.8	0.0	22.8
Street Side	Lumens	17070.2	0.0	17070.2
	% Fixture	77.2	0.0	77.2
Total	Lumens	22109.0	0.0	22109.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.0	1.0
10°-20°	746.3	3.4
20°-30°	1268.5	5.7
30°-40°	1858.2	8.4
40°-50°	2831.1	12.8
50°-60°	5065.5	22.9
60°-70°	6759.3	30.6
70°-80°	3056.7	13.8
80°-90°	299.5	1.4
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°	22109.0	100.0
0°-180°	22109.0	100.0

Coefficient of Utilization



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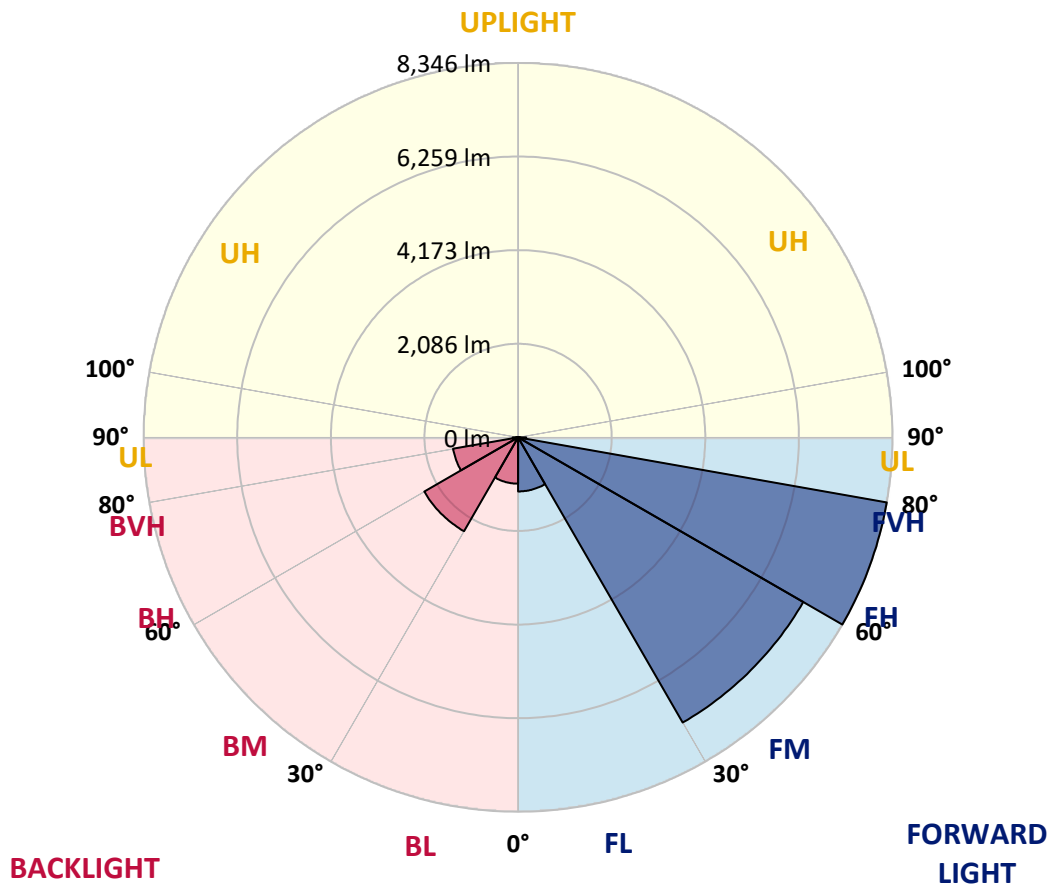
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1205.7	5.5			
FM (30°-60°)	7340.4	33.2			
FH (60°-80°)	8345.9	37.7			G4/12000
FVH (80°-90°)	178.1	0.8			G2/225
BL (0°-30°)	1033.0	4.7	B3/2500		
BM (30°-60°)	2414.3	10.9	B2/2500		
BH (60°-80°)	1470.2	6.6	B3/2500		G3/2500
BVH (80°-90°)	121.3	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2191.7	2191.7	2191.7	2191.7	2191.7	2191.7	2191.7	2191.7	2191.7	2191.7	2191.7
2.5°	2337.2	2345.2	2343.6	2330.8	2322.8	2308.4	2310.0	2287.6	2254.0	2231.7	2206.1
5°	2543.4	2556.2	2540.2	2519.4	2487.4	2441.1	2436.3	2385.1	2321.2	2276.4	2230.1
7.5°	2722.4	2730.4	2711.3	2676.1	2629.7	2567.4	2556.2	2495.4	2415.5	2345.2	2278.0
10°	2861.5	2871.1	2845.5	2799.2	2738.4	2676.1	2668.1	2605.7	2521.0	2437.9	2353.2
12.5°	2979.8	2983.0	2955.8	2893.5	2828.0	2764.0	2756.0	2698.5	2620.1	2535.4	2442.7
15°	3048.6	3050.2	3016.6	2947.8	2885.5	2829.5	2824.8	2775.2	2703.3	2623.3	2524.2
17.5°	3043.8	3047.0	3023.0	2962.2	2907.9	2874.3	2869.5	2837.5	2781.6	2709.7	2610.5
20°	2984.6	2987.8	2971.8	2931.9	2903.1	2893.5	2895.1	2885.5	2851.9	2792.8	2692.1
22.5°	2938.3	2943.1	2928.7	2899.9	2896.7	2919.1	2923.9	2928.7	2912.7	2859.9	2762.4
25°	2960.6	2968.6	2946.2	2906.3	2912.7	2962.2	2971.8	2987.8	2975.0	2930.3	2845.5
27.5°	3115.7	3120.5	3062.9	2981.4	2962.2	3015.0	3029.4	3055.0	3045.4	3003.8	2938.3
30°	3475.4	3472.2	3349.1	3149.3	3069.3	3090.1	3101.3	3138.1	3141.3	3114.1	3051.8
32.5°	3982.2	3966.2	3775.9	3457.8	3226.0	3174.8	3187.6	3237.2	3274.0	3245.2	3160.5
35°	4517.7	4503.3	4293.9	3921.4	3515.4	3337.9	3323.5	3361.9	3417.8	3337.9	3216.4
37.5°	5027.6	5005.3	4791.1	4330.6	3871.8	3624.1	3603.3	3564.9	3531.3	3377.9	3285.2
40°	5593.6	5568.0	5380.9	4859.8	4265.1	3843.1	3790.3	3638.4	3608.1	3510.6	3464.2
42.5°	6197.8	6197.8	6042.8	5529.6	4739.9	4156.4	4087.7	3859.1	3891.0	3827.1	3772.7
45°	6802.1	6819.7	6696.6	6204.2	5374.5	4747.9	4637.6	4313.1	4389.8	4361.0	4333.8
47.5°	7316.9	7350.4	7326.5	6893.2	6151.5	5467.3	5299.4	4962.1	5126.8	5195.5	5272.2
50°	7871.6	7908.3	7884.4	7713.3	7061.1	6338.5	6188.2	5839.7	6122.7	6328.9	6579.9
52.5°	8694.9	8747.6	8547.8	8482.3	8165.7	7328.1	7193.8	6797.3	7310.5	7652.6	8212.1
55°	9390.3	9388.7	9318.3	9468.6	9351.9	8538.2	8389.5	8029.8	8685.3	9048.2	9866.7
57.5°	9713.2	9751.6	9992.9	10418.2	10651.6	10016.9	9874.6	9507.0	10160.8	10349.4	11233.5
60°	9879.4	9927.4	10394.2	11235.1	11863.3	11631.5	11575.6	11107.2	11474.9	11452.5	12386.1
62.5°	9646.0	9742.0	10491.7	11609.1	12728.2	13254.1	13236.5	12528.3	12592.3	12373.3	13100.7
65°	8575.0	8678.9	9855.5	11422.1	13222.1	14488.3	14493.0	13815.2	13450.7	12820.9	12980.8
67.5°	6132.3	6281.0	7735.7	10219.9	13047.9	15154.9	15210.8	14398.7	13652.2	12424.4	11721.0
70°	3342.7	3451.4	4591.2	7428.8	11478.1	14995.0	15098.9	14117.4	12763.3	10747.5	9022.6
72.5°	1518.7	1553.9	2135.8	4076.5	7841.2	12907.2	13342.0	12598.7	10482.1	7938.7	5737.4
75°	695.4	711.4	930.4	1950.3	4097.3	8637.3	8942.7	9383.9	7294.5	5013.3	2991.0
77.5°	436.4	441.2	529.1	892.0	2043.0	4311.5	4632.8	5587.2	4271.5	2481.1	1250.1
80°	257.4	262.2	329.3	482.8	959.2	1972.7	2278.0	2209.3	2007.9	1071.1	569.1
82.5°	129.5	134.3	190.2	275.0	522.7	784.9	924.0	928.8	748.2	580.3	321.3
85°	46.4	48.0	62.3	108.7	222.2	259.0	289.3	353.3	366.1	337.3	155.1
87.5°	0.0	0.0	1.6	3.2	6.4	25.6	27.2	51.2	107.1	119.9	62.3
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°	2191.7	2191.7	2191.7	2191.7	2191.7	2191.7	2191.7	2191.7	2191.7	2191.7	2191.7
2.5°	2198.1	2174.1	2166.1	2158.1	2145.3	2140.5	2131.0	2121.4	2121.4	2111.8	2107.0
5°	2209.3	2177.3	2156.5	2146.9	2138.9	2143.7	2143.7	2146.9	2158.1	2151.7	2154.9
7.5°	2249.3	2212.5	2183.7	2175.7	2175.7	2194.9	2207.7	2223.7	2244.5	2247.7	2247.7
10°	2319.6	2276.4	2246.1	2241.3	2249.3	2276.4	2295.6	2314.8	2340.4	2342.0	2345.2
12.5°	2396.3	2353.2	2322.8	2329.2	2337.2	2372.3	2393.1	2409.1	2434.7	2434.7	2433.1
15°	2476.3	2428.3	2402.7	2415.5	2439.5	2479.5	2482.6	2484.2	2497.0	2493.8	2492.2
17.5°	2559.4	2508.2	2489.0	2508.2	2533.8	2553.0	2537.0	2514.6	2509.8	2503.4	2500.2
20°	2640.9	2588.2	2580.2	2594.6	2602.5	2586.6	2537.0	2495.4	2476.3	2466.7	2463.5
22.5°	2711.3	2666.5	2661.7	2661.7	2621.7	2565.8	2492.2	2436.3	2410.7	2397.9	2394.7
25°	2794.4	2752.8	2744.8	2701.7	2599.3	2497.0	2397.9	2346.8	2326.0	2319.6	2321.2
27.5°	2891.9	2863.1	2837.5	2714.4	2535.4	2375.5	2263.6	2241.3	2233.3	2241.3	2246.1
30°	3011.8	2983.0	2925.5	2698.5	2433.1	2217.3	2110.2	2108.6	2132.6	2153.3	2156.5
32.5°	3109.3	3096.5	3002.2	2647.3	2289.2	2043.0	1951.9	1958.3	2001.5	2030.2	2035.0
35°	3186.0	3206.8	3066.1	2562.6	2118.2	1878.4	1806.4	1809.6	1833.6	1873.6	1875.2
37.5°	3294.7	3365.1	3123.7	2433.1	1921.5	1736.1	1670.6	1646.6	1643.4	1654.6	1657.8
40°	3513.8	3619.3	3165.3	2244.5	1731.3	1608.2	1534.7	1488.3	1448.3	1418.0	1408.4
42.5°	3844.7	3966.2	3189.2	2015.9	1561.8	1481.9	1398.8	1339.6	1269.3	1205.4	1183.0
45°	4452.1	4492.1	3189.2	1772.9	1411.6	1363.6	1280.5	1210.2	1120.6	1045.5	1029.5
47.5°	5424.1	5296.2	3192.4	1537.9	1278.9	1259.7	1187.8	1107.8	1008.7	946.4	936.8
50°	6888.4	6439.2	3258.0	1342.8	1168.6	1171.8	1119.0	1031.1	941.6	895.2	887.2
52.5°	8547.8	7847.6	3433.8	1199.0	1075.9	1099.8	1071.1	986.3	906.4	866.4	858.5
55°	10108.0	9142.5	3584.1	1096.7	997.5	1039.1	1037.5	959.2	887.2	847.3	842.5
57.5°	11434.9	10029.7	3561.7	1013.5	930.4	983.1	1007.1	941.6	874.4	840.9	836.1
60°	12259.8	10499.7	3243.6	936.8	879.2	943.2	989.5	936.8	880.8	872.8	874.4
62.5°	12617.9	10413.4	2632.9	879.2	845.7	924.0	1008.7	970.4	940.0	959.2	970.4
65°	12061.6	9671.6	1937.5	836.1	813.7	928.8	1053.5	1023.1	940.0	952.8	957.6
67.5°	10517.3	8232.9	1400.4	792.9	773.7	943.2	1117.4	1015.1	885.6	885.6	876.0
70°	7579.0	5921.3	1016.7	749.8	733.8	922.4	1120.6	960.8	823.3	818.5	794.5
72.5°	4560.8	3493.0	792.9	701.8	673.0	818.5	1050.3	896.8	762.5	722.6	693.8
75°	2369.1	1750.5	665.0	649.0	577.1	693.8	960.8	797.7	652.2	617.1	601.1
77.5°	1015.1	818.5	570.7	578.7	479.6	583.5	775.3	690.6	578.7	533.9	519.5
80°	500.4	465.2	450.8	463.6	383.7	450.8	668.2	604.3	490.8	439.6	418.8
82.5°	286.2	271.8	324.5	329.3	273.4	377.3	564.3	511.6	406.0	350.1	316.5
85°	132.7	142.3	196.6	198.2	169.5	259.0	369.3	287.8	215.8	179.0	171.1
87.5°	52.8	62.3	86.3	84.7	49.6	48.0	32.0	17.6	14.4	12.8	11.2
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)