

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: P638010

Luminaire Tested: GWS-SA4D-830-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638010
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-SA4D-830-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (64) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18790.6 lumens
Efficiency: N/A
Efficacy: 115.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G3

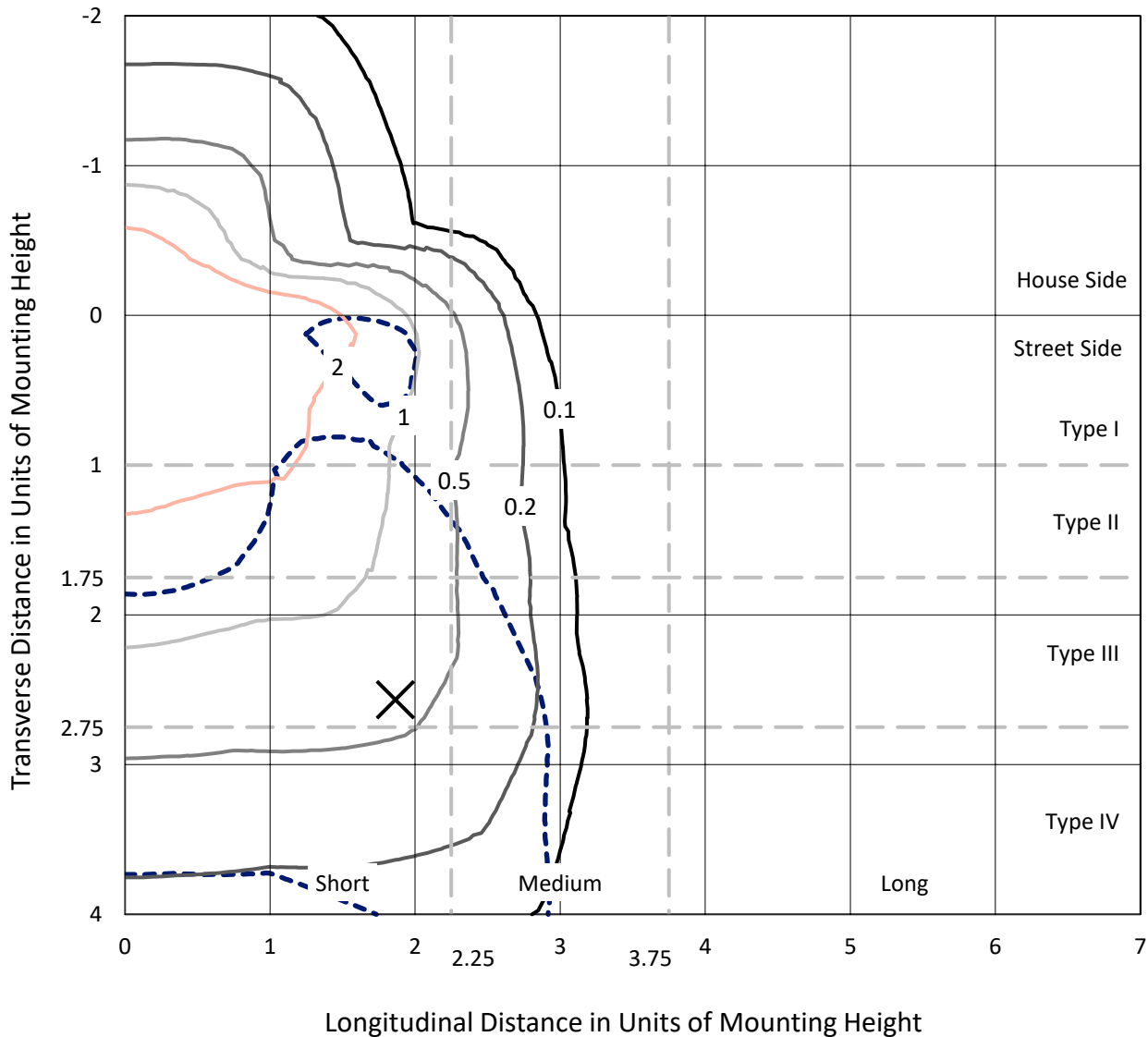
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

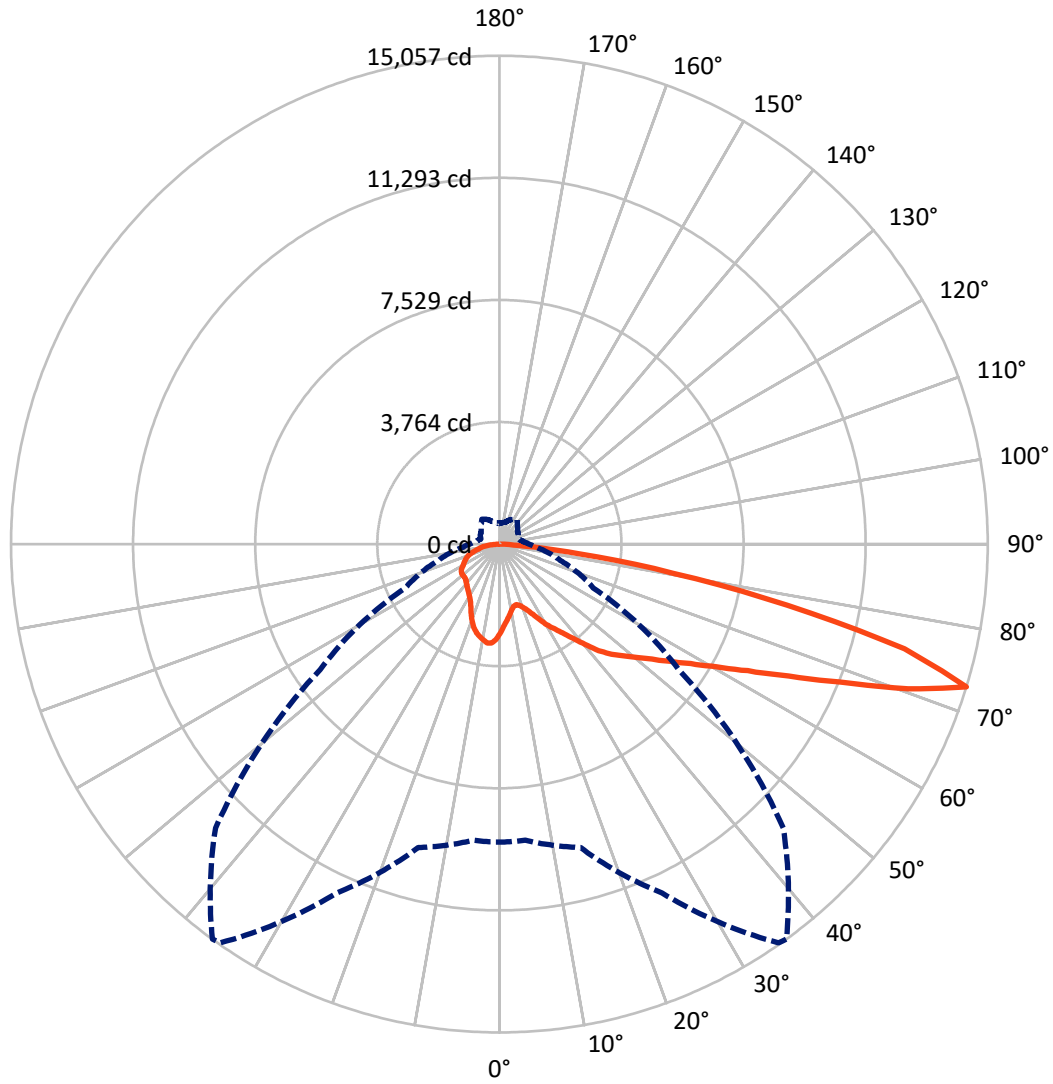
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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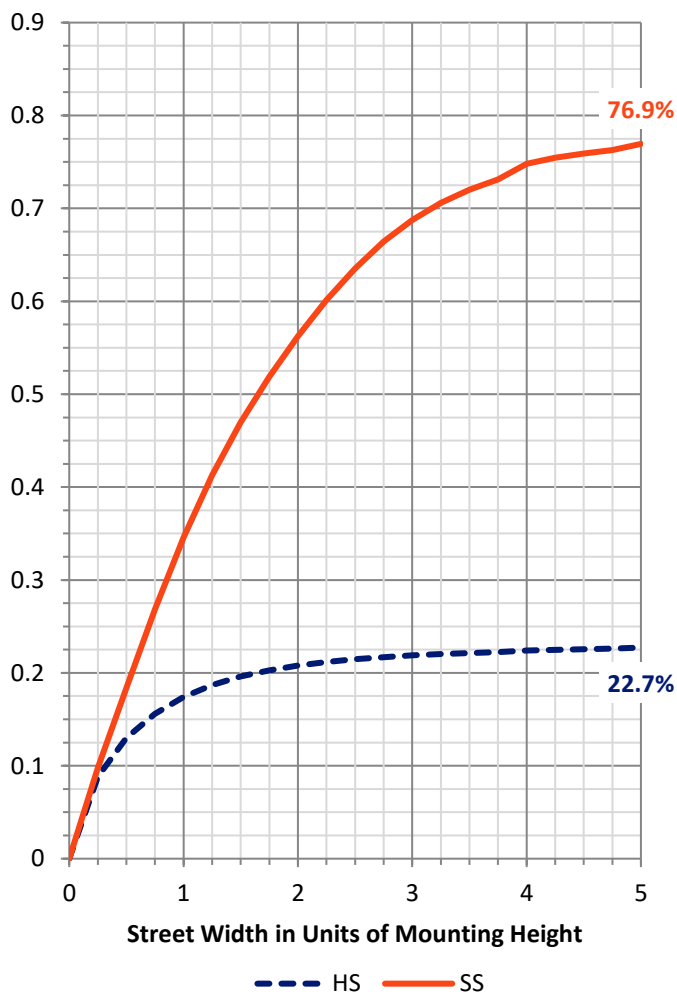
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4332.0	0.0	4332.0
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	14458.6	0.0	14458.6
	% Fixture	76.9	0.0	76.9
Total	Lumens	18790.6	0.0	18790.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.1	1.4
10°-20°	725.3	3.9
20°-30°	1201.1	6.4
30°-40°	1798.8	9.6
40°-50°	2624.3	14.0
50°-60°	3735.1	19.9
60°-70°	4719.1	25.1
70°-80°	3362.7	17.9
80°-90°	367.1	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°	18790.6	100.0
0°-180°	18790.6	100.0

Coefficient of Utilization

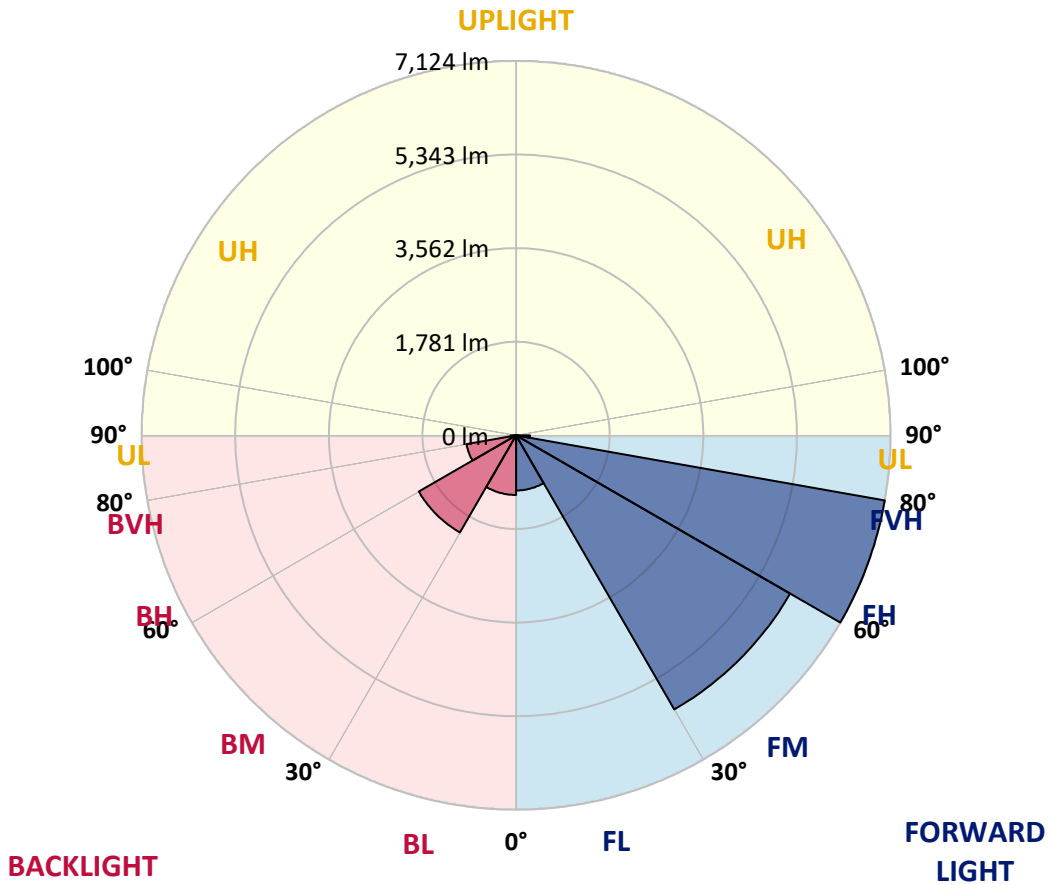


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1049.0	5.6			
FM (30°-60°)	6021.9	32.0			
FH (60°-80°)	7124.1	37.9			G3/7500
FVH (80°-90°)	263.5	1.4			G3/500
BL (0°-30°)	1134.4	6.0	B3/2500		
BM (30°-60°)	2136.3	11.4	B2/2500		
BH (60°-80°)	957.7	5.1	B2/1000		G2/1000
BVH (80°-90°)	103.6	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-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	2750.1	2750.1	2750.1	2750.1	2750.1	2750.1	2750.1	2750.1	2750.1	2750.1	2750.1
2.5°	2508.8	2504.6	2496.3	2521.4	2546.5	2543.7	2578.6	2612.0	2648.3	2685.9	2736.1
5°	2308.0	2305.2	2298.2	2335.9	2373.6	2372.2	2429.3	2483.7	2557.6	2638.5	2738.9
7.5°	2107.2	2100.2	2110.0	2157.4	2210.4	2216.0	2294.1	2383.3	2490.7	2612.0	2754.3
10°	1930.1	1928.7	1932.9	1985.9	2065.4	2070.9	2171.3	2295.5	2437.7	2599.5	2789.1
12.5°	1884.1	1881.3	1870.1	1896.6	1956.6	1964.9	2075.1	2227.1	2401.4	2606.4	2836.6
15°	1959.4	1952.4	1913.3	1900.8	1930.1	1937.1	2030.5	2186.7	2380.5	2619.0	2896.5
17.5°	2089.1	2084.9	2011.0	1959.4	1978.9	1984.5	2054.2	2179.7	2374.9	2644.1	2970.4
20°	2278.7	2260.6	2144.8	2066.8	2066.8	2075.1	2117.0	2210.4	2381.9	2674.8	3054.1
22.5°	2529.7	2493.5	2330.3	2224.3	2196.4	2207.6	2225.7	2287.1	2411.2	2726.4	3158.7
25°	2811.4	2778.0	2584.1	2434.9	2395.9	2400.1	2384.7	2395.9	2475.4	2797.5	3288.4
27.5°	3111.3	3089.0	2882.6	2692.9	2631.6	2631.6	2577.2	2550.7	2564.6	2878.4	3433.4
30°	3379.0	3348.4	3174.0	2966.2	2885.4	2885.4	2782.2	2725.0	2691.5	2977.4	3627.3
32.5°	3519.9	3501.8	3386.0	3227.0	3128.0	3112.7	3023.4	2956.5	2878.4	3123.8	3889.5
35°	3704.0	3699.8	3630.1	3505.9	3380.4	3358.1	3296.8	3243.8	3108.5	3306.5	4238.1
37.5°	3935.5	3928.5	3917.3	3843.4	3692.8	3688.6	3634.2	3570.1	3394.4	3570.1	4660.6
40°	4194.9	4182.3	4168.4	4167.0	4076.3	4061.0	4056.8	3984.3	3738.8	3888.1	5101.3
42.5°	4551.9	4508.6	4377.5	4436.1	4503.1	4489.1	4542.1	4433.3	4168.4	4266.0	5518.3
45°	4991.2	4885.2	4625.8	4642.5	4811.3	4839.2	5023.2	4996.7	4641.1	4702.5	5957.6
47.5°	5254.7	5162.7	4921.4	4907.5	5118.1	5152.9	5553.2	5603.4	5150.1	5228.2	6500.1
50°	5470.9	5406.7	5208.7	5228.2	5451.4	5486.2	6078.9	6186.3	5629.9	5766.5	7130.4
52.5°	5731.7	5639.6	5486.2	5578.3	5851.6	5893.4	6663.2	6779.0	6062.2	6357.8	7783.1
55°	5878.1	5840.5	5843.2	5984.1	6327.2	6384.3	7275.5	7255.9	6458.2	6864.1	8274.0
57.5°	6215.6	6201.6	6329.9	6382.9	6882.2	6956.1	7887.7	7720.3	6818.0	7255.9	8509.7
60°	6811.1	6776.2	6887.8	6968.7	7568.3	7672.9	8571.0	8175.0	7062.1	7547.4	8430.2
62.5°	7647.8	7604.6	7608.8	7737.1	8487.3	8597.5	9331.1	8554.3	7137.4	7592.0	7926.7
65°	8688.2	8625.4	8554.3	8728.6	9707.6	9799.6	10158.0	8830.4	6957.5	7162.5	6875.2
67.5°	9785.7	9734.1	9650.4	10015.8	11287.6	11343.4	11085.4	8806.7	6387.1	6013.4	4822.4
70°	9849.8	9862.4	10258.4	11580.5	13350.2	13364.1	11962.6	8329.8	5172.5	3897.8	2402.8
72.5°	9188.8	9167.9	9683.9	11866.4	15009.7	15057.2	12376.8	6748.3	3196.4	1944.0	1126.8
75°	7463.7	7500.0	8042.5	10382.6	12864.9	12906.7	10089.7	3978.7	1518.7	951.1	721.0
77.5°	3213.1	3415.3	4484.9	7314.5	9213.9	9084.2	5200.3	1612.1	810.2	677.8	552.2
80°	927.4	1006.9	1598.2	3478.1	5521.1	5423.5	2058.4	603.8	564.8	509.0	396.1
82.5°	299.8	331.9	585.7	1384.8	2474.0	2471.2	781.0	357.0	369.6	345.9	255.2
85°	83.7	96.2	179.9	419.8	765.6	750.3	225.9	168.7	196.6	199.4	126.9
87.5°	0.0	0.0	1.4	2.8	2.8	2.8	5.6	25.1	57.2	72.5	51.6
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°	2750.1	2750.1	2750.1	2750.1	2750.1	2750.1	2750.1	2750.1	2750.1	2750.1	2750.1
2.5°	2766.8	2762.6	2819.8	2864.4	2906.3	2934.2	2942.5	2948.1	2959.3	2964.9	2959.3
5°	2786.3	2807.3	2902.1	2971.8	3027.6	3061.1	3062.5	3059.7	3068.1	3061.1	3056.9
7.5°	2828.2	2868.6	2988.6	3062.5	3098.7	3100.1	3066.7	3027.6	3008.1	2991.3	2985.8
10°	2884.0	2943.9	3075.0	3123.8	3112.7	3061.1	2987.2	2925.8	2890.9	2865.8	2860.3
12.5°	2960.7	3027.6	3151.7	3150.3	3080.6	2988.6	2902.1	2828.2	2778.0	2748.7	2738.9
15°	3033.2	3118.3	3207.5	3142.0	3031.8	2920.2	2808.7	2709.6	2642.7	2596.7	2588.3
17.5°	3122.4	3213.1	3247.9	3115.5	2970.4	2826.8	2677.6	2547.9	2457.2	2402.8	2398.7
20°	3225.6	3306.5	3267.5	3069.4	2890.9	2702.7	2500.5	2355.4	2257.8	2204.8	2209.0
22.5°	3345.6	3404.1	3273.1	3006.7	2780.8	2527.0	2301.0	2161.6	2096.0	2068.1	2069.5
25°	3473.9	3511.5	3263.3	2921.6	2612.0	2312.2	2096.0	2031.9	2026.3	2019.3	2022.1
27.5°	3625.9	3617.5	3234.0	2801.7	2384.7	2062.6	1952.4	1969.1	1991.4	1988.7	1991.4
30°	3829.5	3750.0	3196.4	2635.7	2114.2	1853.4	1867.3	1914.7	1944.0	1946.8	1955.2
32.5°	4062.4	3896.4	3136.4	2409.8	1856.2	1736.2	1787.8	1845.0	1879.9	1886.9	1898.0
35°	4339.9	4063.8	3030.4	2128.1	1670.7	1666.5	1713.9	1753.0	1790.6	1793.4	1793.4
37.5°	4659.3	4231.1	2861.7	1817.1	1556.3	1606.5	1651.2	1659.5	1669.3	1660.9	1665.1
40°	4952.1	4392.9	2621.8	1534.0	1462.9	1553.5	1591.2	1563.3	1532.6	1511.7	1515.9
42.5°	5197.6	4503.1	2303.8	1336.0	1368.1	1506.1	1535.4	1478.2	1418.3	1379.2	1384.8
45°	5473.7	4604.9	1930.1	1202.1	1287.2	1472.7	1492.2	1418.3	1341.6	1283.0	1274.6
47.5°	5854.4	4812.7	1598.2	1108.7	1230.0	1454.5	1486.6	1386.2	1285.8	1197.9	1188.2
50°	6324.4	5106.9	1320.7	1047.3	1203.5	1444.8	1485.2	1351.3	1231.4	1128.2	1121.2
52.5°	6837.6	5394.2	1115.7	999.9	1177.0	1415.5	1478.2	1312.3	1174.2	1062.7	1054.3
55°	7179.2	5507.1	977.6	955.3	1133.8	1369.5	1450.4	1274.6	1087.8	986.0	973.4
57.5°	7279.6	5362.1	881.4	914.8	1078.0	1305.3	1397.4	1195.1	1034.8	953.9	944.1
60°	7106.7	4996.7	821.4	881.4	1016.6	1223.0	1305.3	1149.1	992.9	920.4	913.4
62.5°	6618.6	4433.3	775.4	846.5	953.9	1136.6	1246.7	1093.3	946.9	889.7	880.0
65°	5636.8	3635.6	737.7	810.2	893.9	1054.3	1182.6	1037.6	896.7	853.5	842.3
67.5°	3942.4	2553.5	697.3	767.0	834.0	974.8	1115.7	986.0	845.1	813.0	801.9
70°	1927.3	1354.1	648.5	716.8	769.8	893.9	1048.7	923.2	776.8	758.6	743.3
72.5°	917.6	757.3	591.3	648.5	681.9	786.5	937.1	832.6	695.9	656.8	630.3
75°	615.0	538.3	516.0	567.6	576.0	659.6	803.3	718.2	613.6	569.0	546.7
77.5°	465.8	411.4	433.7	479.7	463.0	542.5	661.0	640.1	553.6	513.2	502.0
80°	327.7	299.8	344.5	372.3	359.8	461.6	595.5	548.1	456.0	411.4	403.0
82.5°	206.4	200.8	253.8	258.0	262.2	365.4	489.5	430.9	354.2	291.5	270.5
85°	103.2	114.4	152.0	152.0	150.6	188.3	278.9	242.7	191.1	152.0	147.8
87.5°	34.9	48.8	65.5	53.0	40.4	32.1	36.3	44.6	47.4	46.0	46.0
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)