

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: P637668

Luminaire Tested: GWS-SA4D-730-U-T2R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637668  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-13)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-730-U-T2R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19626.3 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
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

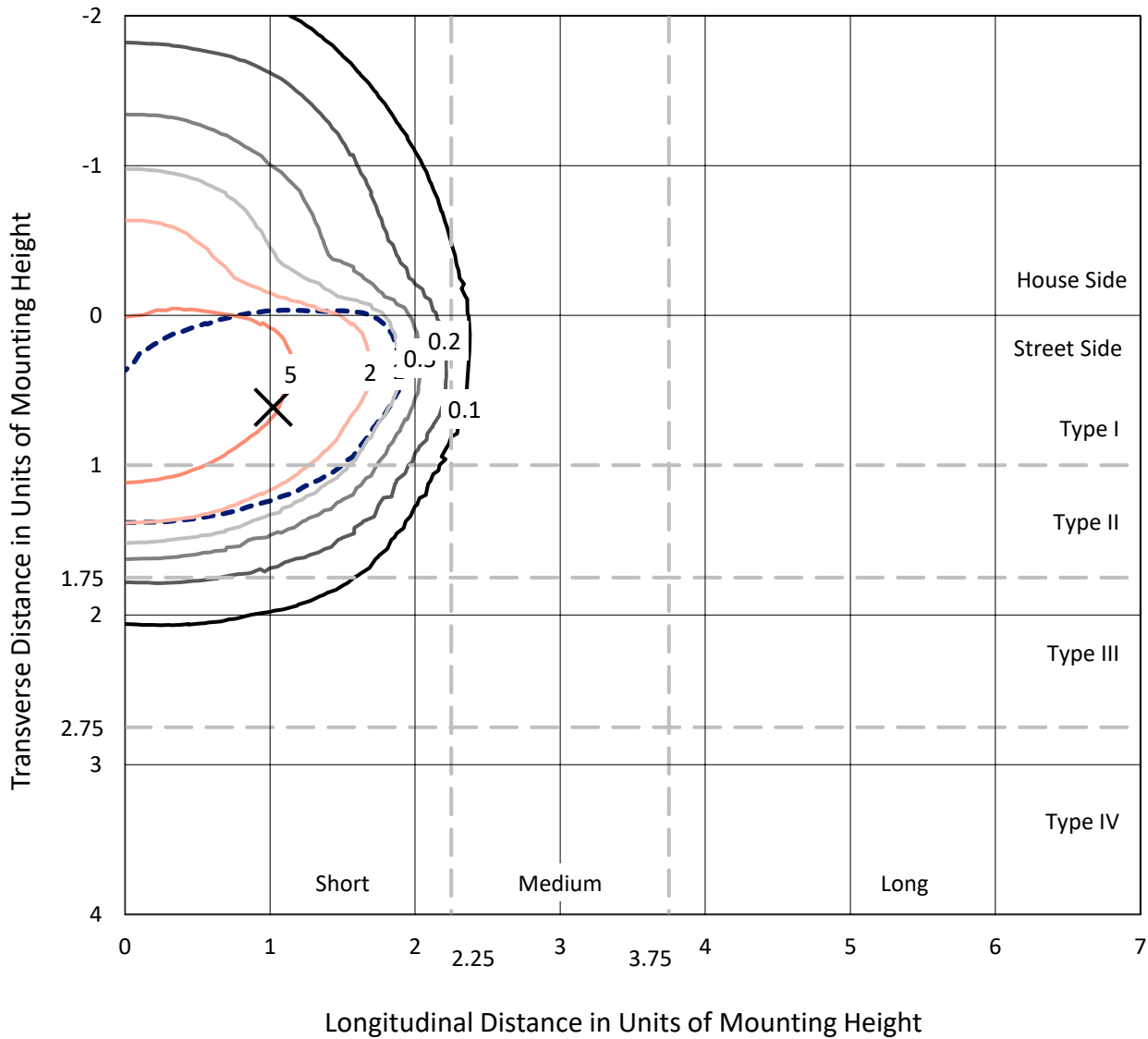


REPORT NUMBER: P637668

CATALOG NUMBER: GWS-SA4D-730-U-T2R-W-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

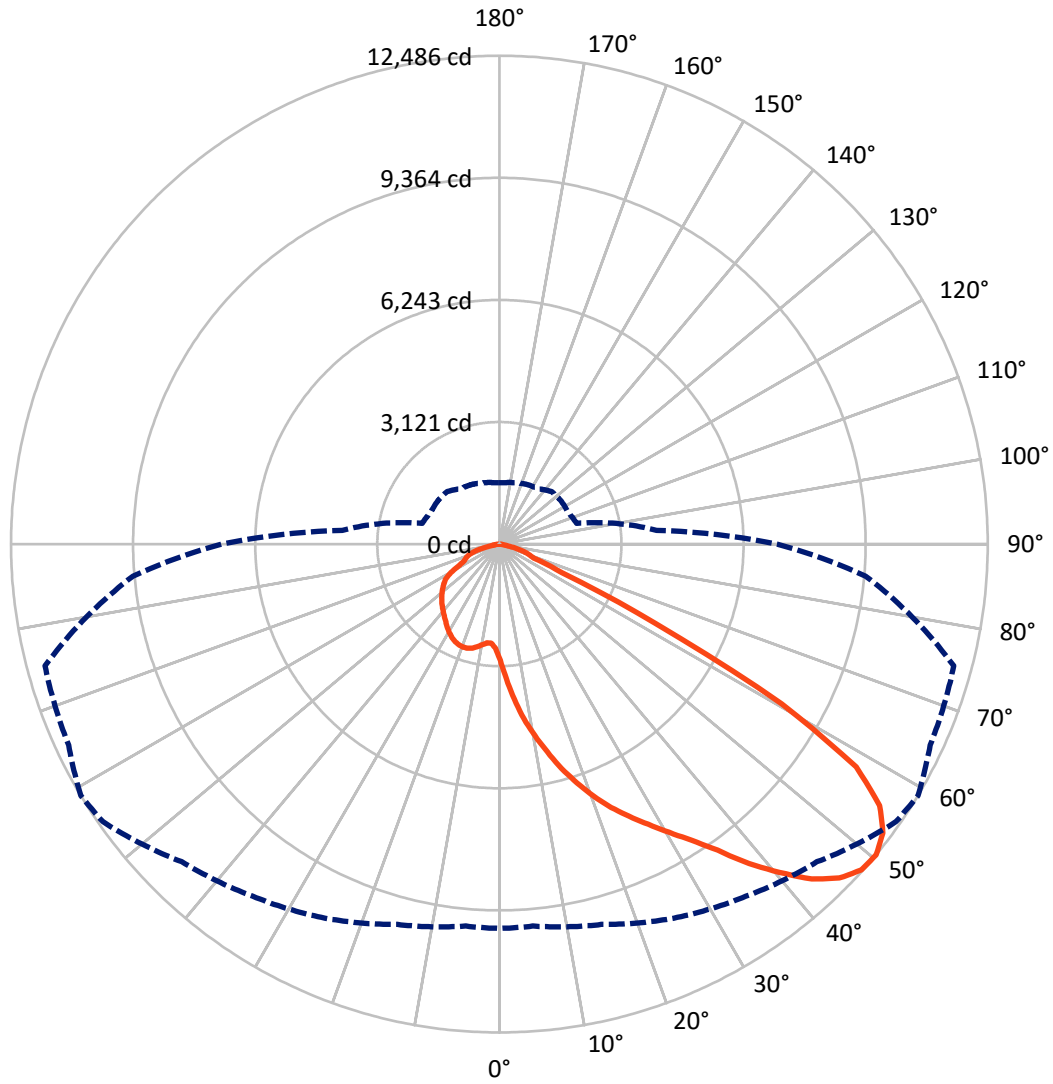
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 fc  
 Type II - Short - N/A

REPORT NUMBER: P637668  
CATALOG NUMBER: GWS-SA4D-730-U-T2R-W-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P637668

CATALOG NUMBER: GWS-SA4D-730-U-T2R-W-GRSWH

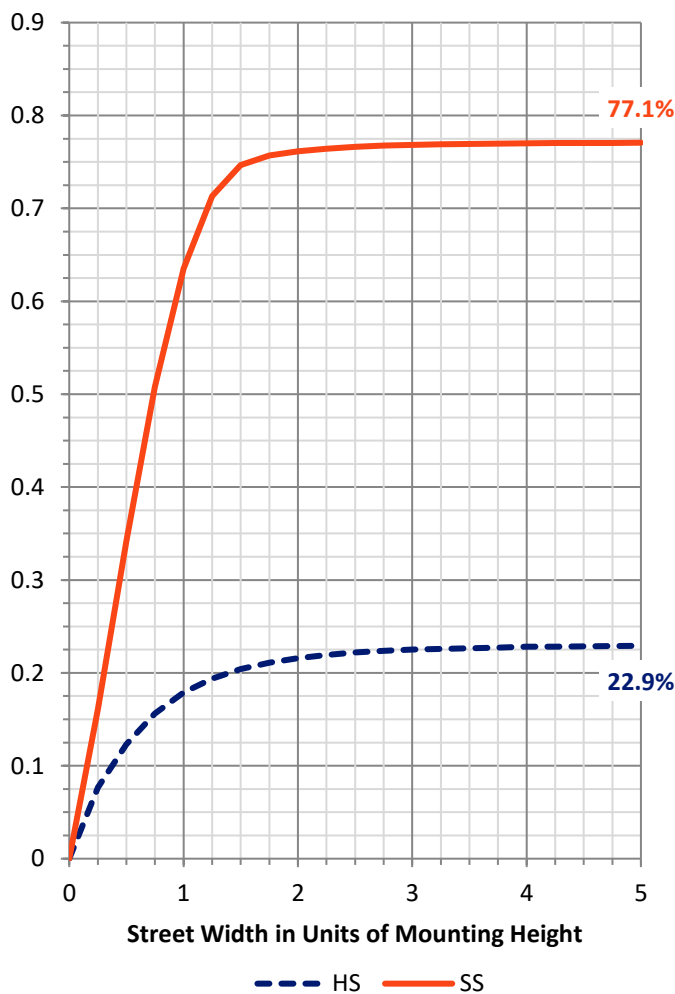
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4514.4	0.0	4514.4
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	15111.9	0.0	15111.9
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	19626.3	0.0	19626.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	333.6	1.7
10°-20°	1211.0	6.2
20°-30°	2293.0	11.7
30°-40°	3802.6	19.4
40°-50°	5194.5	26.5
50°-60°	4715.3	24.0
60°-70°	1570.2	8.0
70°-80°	458.0	2.3
80°-90°	48.1	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°	19626.3	100.0
0°-180°	19626.3	100.0

**Coefficient of Utilization**



REPORT NUMBER: P637668

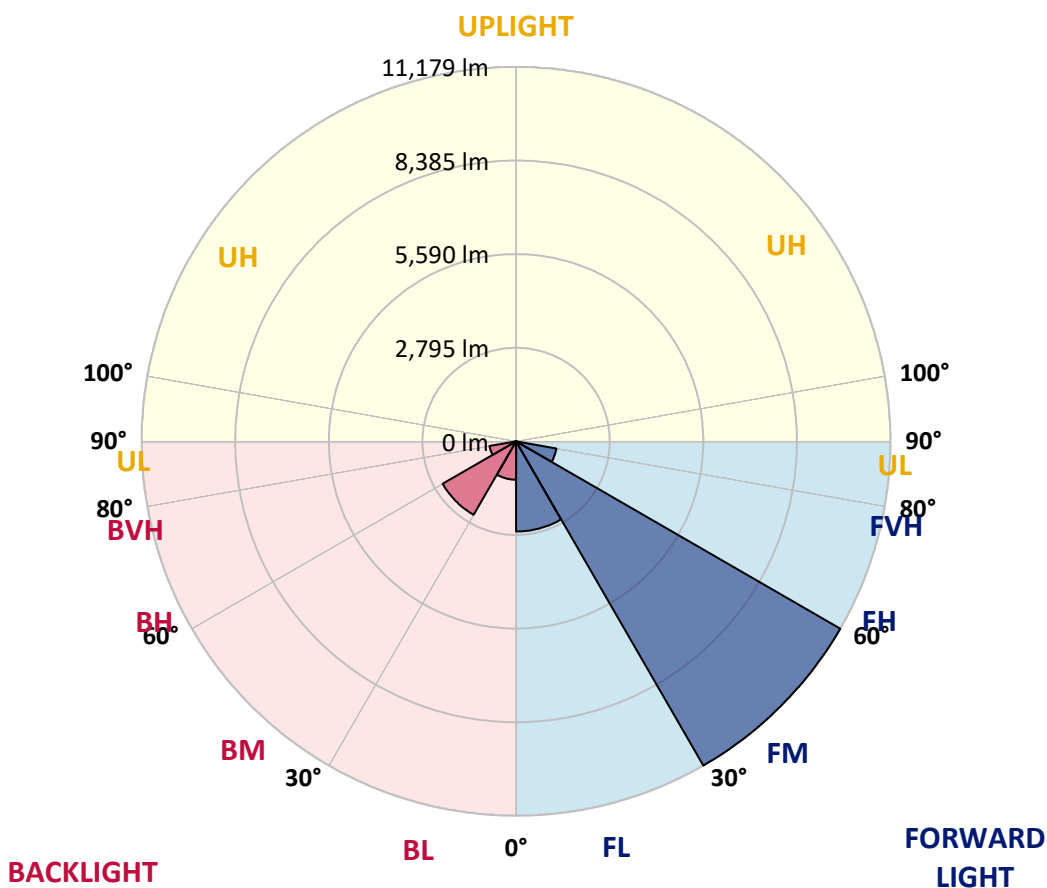
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2691.2	13.7			
FM (30°-60°)	11179.4	57.0			
FH (60°-80°)	1222.4	6.2			G1/1800
FVH (80°-90°)	18.8	0.1			G1/100
BL (0°-30°)	1146.3	5.8	B3/2500		
BM (30°-60°)	2533.0	12.9	B3/5000		
BH (60°-80°)	805.8	4.1	B2/1000		G2/1000
BVH (80°-90°)	29.3	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





REPORT NUMBER: P637668

CATALOG NUMBER: GWS-SA4D-730-U-T2R-W-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5
2.5°	3852.8	3881.6	3836.8	3840.0	3728.1	3676.9	3533.1	3448.3	3392.4	3235.7	3093.4
5°	4629.7	4596.2	4561.0	4540.2	4442.7	4305.2	4126.2	3983.9	3852.8	3545.8	3250.1
7.5°	5106.1	5088.6	5064.6	5051.8	4955.9	4812.0	4632.9	4511.4	4321.2	3905.5	3440.3
10°	5510.6	5489.8	5475.4	5485.0	5406.7	5314.0	5118.9	4979.9	4765.6	4286.0	3670.5
12.5°	5823.9	5835.1	5839.9	5891.1	5857.5	5801.6	5600.1	5453.1	5214.9	4687.3	3940.7
15°	6071.7	6068.5	6124.5	6222.0	6276.4	6241.2	6079.7	5956.6	5665.7	5082.2	4231.7
17.5°	6129.3	6132.5	6220.4	6391.5	6568.9	6655.3	6564.1	6417.1	6129.3	5472.2	4533.8
20°	6175.7	6182.1	6273.2	6468.2	6727.2	6968.6	6983.0	6877.5	6629.7	5894.3	4840.8
22.5°	6468.2	6482.6	6506.6	6629.7	6863.1	7168.4	7336.3	7313.9	7106.1	6337.1	5171.7
25°	7237.2	7194.0	7077.3	7042.1	7131.7	7379.5	7665.6	7708.8	7606.5	6824.7	5528.2
27.5°	8186.8	8140.4	7967.8	7785.5	7592.1	7678.4	7983.8	8113.2	8114.8	7361.9	5886.3
30°	9048.5	9011.7	8871.0	8610.4	8276.3	8151.6	8377.0	8551.3	8655.2	7982.2	6294.0
32.5°	9785.4	9751.9	9561.6	9349.0	9022.9	8771.9	8853.4	9021.3	9264.3	8784.7	6800.7
35°	10405.7	10372.2	10189.9	9975.7	9673.5	9523.3	9494.5	9609.6	9924.5	9622.4	7382.7
37.5°	10909.3	10875.7	10685.5	10484.1	10253.9	10263.5	10306.6	10362.6	10543.2	10519.2	8004.5
40°	11235.4	11200.3	11064.4	10920.5	10775.0	10890.1	11104.4	11037.2	11133.1	11243.4	8576.9
42.5°	11380.9	11336.2	11257.8	11225.8	11181.1	11360.1	11772.6	11705.5	11590.3	11726.2	9002.1
45°	11235.4	11197.1	11195.5	11293.0	11396.9	11627.1	12234.6	12180.3	11889.3	11959.6	9256.3
47.5°	10789.4	10755.8	10847.0	11102.8	11358.5	11694.3	12440.8	12450.4	12101.9	12057.2	9421.0
50°	9825.4	9803.0	10066.8	10551.2	10992.4	11484.8	12375.3	12485.6	12153.1	12026.8	9400.2
52.5°	7865.4	7969.4	8543.3	9352.2	10209.1	11117.1	12132.3	12276.2	11906.9	11826.9	9288.3
55°	5384.3	5432.3	6006.2	7187.6	8546.5	10321.0	11574.4	11796.6	11615.9	11793.4	9405.0
57.5°	2788.1	2826.4	3278.9	4327.6	5796.8	8156.4	10025.2	10754.2	11029.2	11962.8	9767.9
60°	1144.6	1176.6	1363.7	1870.4	2924.0	4749.6	7214.8	8295.5	8941.4	10925.3	8674.4
62.5°	831.3	847.3	936.8	1115.9	1531.5	2327.7	4083.0	4481.1	4935.1	6847.1	5507.4
65°	700.2	717.8	789.7	898.5	1117.5	1427.6	1744.1	1753.7	1932.8	2789.7	2041.5
67.5°	586.7	602.7	666.6	759.4	903.2	1013.6	936.8	938.4	935.2	1012.0	978.4
70°	457.2	470.0	534.0	633.1	708.2	650.7	732.2	810.5	777.0	807.3	853.7
72.5°	334.1	348.5	404.5	479.6	460.4	463.6	593.1	673.0	653.9	687.4	730.6
75°	241.4	251.0	279.8	239.8	252.6	305.3	417.3	460.4	479.6	508.4	546.7
77.5°	78.3	78.3	87.9	110.3	137.5	169.5	212.6	230.2	259.0	291.0	318.1
80°	40.0	41.6	49.6	60.7	76.7	97.5	124.7	132.7	147.1	164.7	175.9
82.5°	19.2	20.8	24.0	30.4	40.0	51.2	68.7	76.7	86.3	97.5	105.5
85°	4.8	4.8	6.4	9.6	12.8	19.2	25.6	30.4	38.4	46.4	51.2
87.5°	0.0	0.0	0.0	0.0	0.0	1.6	4.8	6.4	8.0	9.6	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637668

CATALOG NUMBER: GWS-SA4D-730-U-T2R-W-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5	2973.5
2.5°	3029.5	2940.0	2824.8	2727.3	2637.8	2569.1	2509.9	2481.1	2454.0	2434.8	2441.2
5°	3112.6	2959.1	2744.9	2596.2	2505.1	2458.8	2426.8	2410.8	2407.6	2394.8	2390.0
7.5°	3234.1	3015.1	2728.9	2578.7	2517.9	2493.9	2476.3	2466.7	2471.5	2458.8	2454.0
10°	3384.4	3107.8	2768.9	2636.2	2583.4	2565.9	2546.7	2533.9	2527.5	2508.3	2505.1
12.5°	3571.4	3222.9	2840.8	2709.7	2657.0	2626.6	2601.0	2578.7	2564.3	2540.3	2533.9
15°	3772.9	3350.8	2925.6	2781.7	2719.3	2674.6	2633.0	2599.4	2573.9	2541.9	2537.1
17.5°	3991.9	3485.1	2995.9	2831.2	2751.3	2692.2	2631.4	2581.8	2546.7	2505.1	2500.3
20°	4220.5	3621.0	3048.7	2855.2	2752.9	2673.0	2591.4	2525.9	2481.1	2439.6	2436.4
22.5°	4457.1	3745.7	3080.6	2848.8	2727.3	2628.2	2530.7	2457.2	2404.4	2354.8	2351.6
25°	4695.3	3865.6	3088.6	2823.2	2676.2	2561.1	2463.5	2377.2	2318.1	2262.1	2255.7
27.5°	4936.7	3966.3	3069.4	2772.1	2607.4	2482.7	2385.2	2300.5	2239.7	2183.8	2174.2
30°	5194.1	4052.6	3027.9	2704.9	2527.5	2399.6	2303.7	2239.7	2182.2	2126.2	2116.6
32.5°	5469.0	4127.8	2968.7	2623.4	2434.8	2316.5	2246.1	2188.6	2131.0	2081.5	2071.9
35°	5796.8	4177.3	2880.8	2517.9	2348.4	2255.7	2207.8	2140.6	2070.3	2015.9	2011.1
37.5°	6135.7	4215.7	2775.3	2417.2	2273.3	2220.6	2180.6	2089.5	2001.5	1936.0	1928.0
40°	6463.4	4247.7	2644.2	2322.9	2204.6	2195.0	2140.6	2027.1	1875.2	1801.7	1795.3
42.5°	6768.8	4257.3	2506.7	2222.1	2142.2	2137.4	2076.7	1900.8	1784.1	1737.8	1731.4
45°	6978.2	4249.3	2364.4	2127.8	2079.9	2054.3	1990.3	1809.7	1737.8	1696.2	1688.2
47.5°	7133.3	4207.7	2204.6	2028.7	2009.5	1974.4	1836.9	1752.1	1685.0	1643.4	1635.4
50°	7106.1	4035.0	2043.1	1932.8	1924.8	1894.4	1725.0	1680.2	1621.0	1576.3	1569.9
52.5°	6965.4	3707.3	1878.4	1827.3	1843.3	1784.1	1645.0	1593.9	1542.7	1491.6	1480.4
55°	7000.6	3470.7	1753.7	1725.0	1753.7	1619.5	1555.5	1501.1	1453.2	1403.6	1394.0
57.5°	7154.0	3237.3	1621.0	1614.7	1645.0	1493.2	1440.4	1371.7	1302.9	1262.9	1262.9
60°	6007.8	2359.6	1387.6	1403.6	1472.4	1390.8	1344.5	1274.1	1199.0	1163.8	1163.8
62.5°	3552.2	1480.4	1151.0	1133.5	1176.6	1227.8	1253.4	1195.8	1106.3	1059.9	1061.5
65°	1565.1	1077.5	1015.2	1000.8	988.0	1023.1	1093.5	1098.3	1004.0	949.6	951.2
67.5°	964.0	975.2	949.6	938.4	927.2	920.8	914.4	917.6	892.1	842.5	840.9
70°	869.7	900.1	882.5	872.9	858.5	847.3	808.9	746.6	703.4	690.6	705.0
72.5°	748.2	789.7	780.2	775.4	757.8	730.6	679.4	618.7	567.5	535.6	541.9
75°	564.3	597.9	602.7	604.3	585.1	559.5	506.8	455.6	410.9	377.3	385.3
77.5°	324.5	343.7	348.5	353.3	338.9	329.3	294.2	257.4	233.4	198.2	207.8
80°	180.6	188.6	188.6	190.2	182.2	171.1	147.1	126.3	115.1	99.1	100.7
82.5°	108.7	111.9	113.5	115.1	110.3	99.1	81.5	67.1	60.7	52.8	51.2
85°	52.8	56.0	56.0	57.6	49.6	43.2	33.6	25.6	22.4	16.0	17.6
87.5°	12.8	14.4	14.4	12.8	11.2	8.0	4.8	1.6	0.0	0.0	0.0
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)