

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: P636784

Luminaire Tested: GWS-SA4B-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636784  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-21)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4B-740-U-T2-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH  
Light Source: (64) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

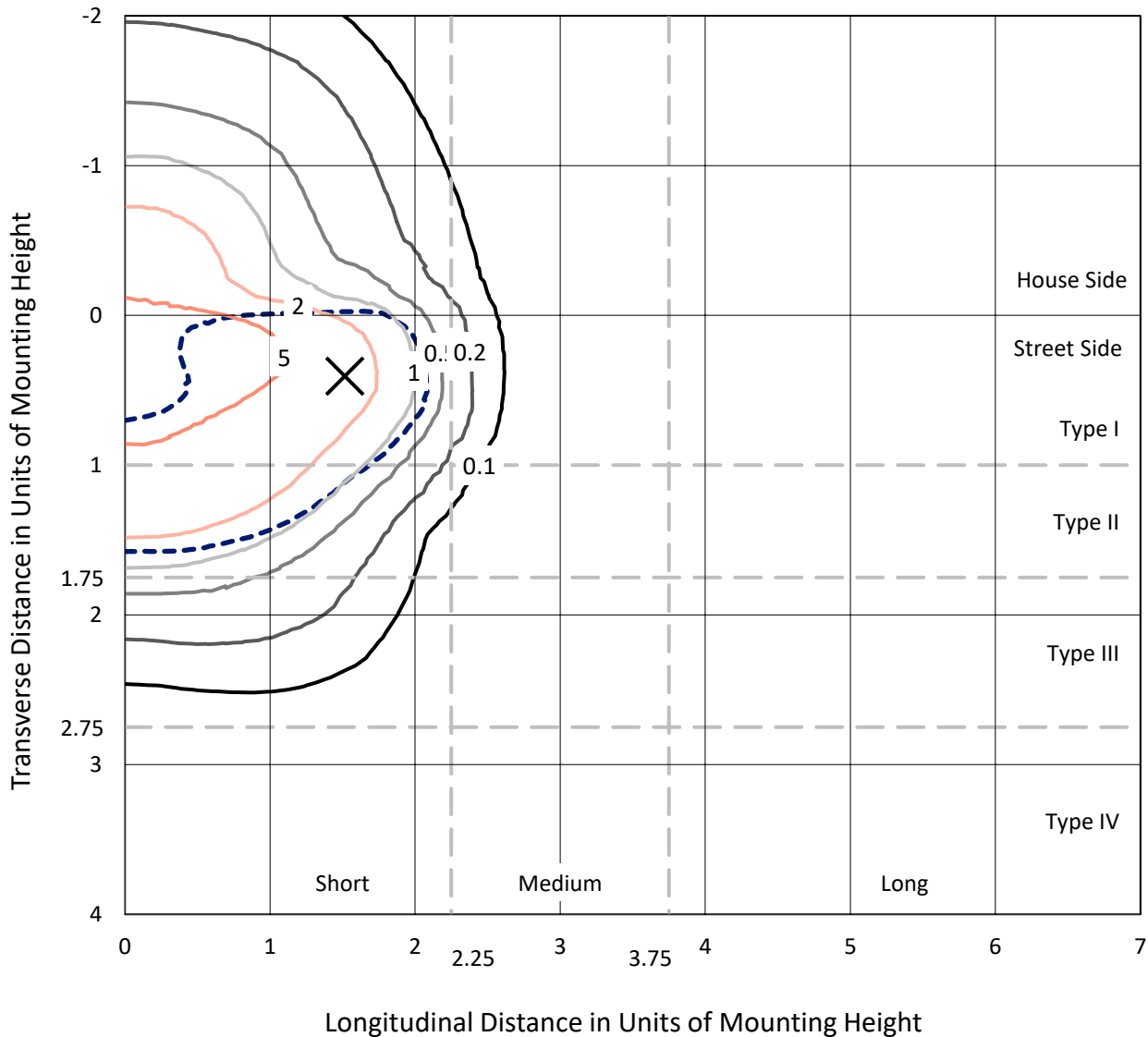
Lumens per Lamp: N/A  
Luminaire Lumens: 12067.5 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 94.4  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

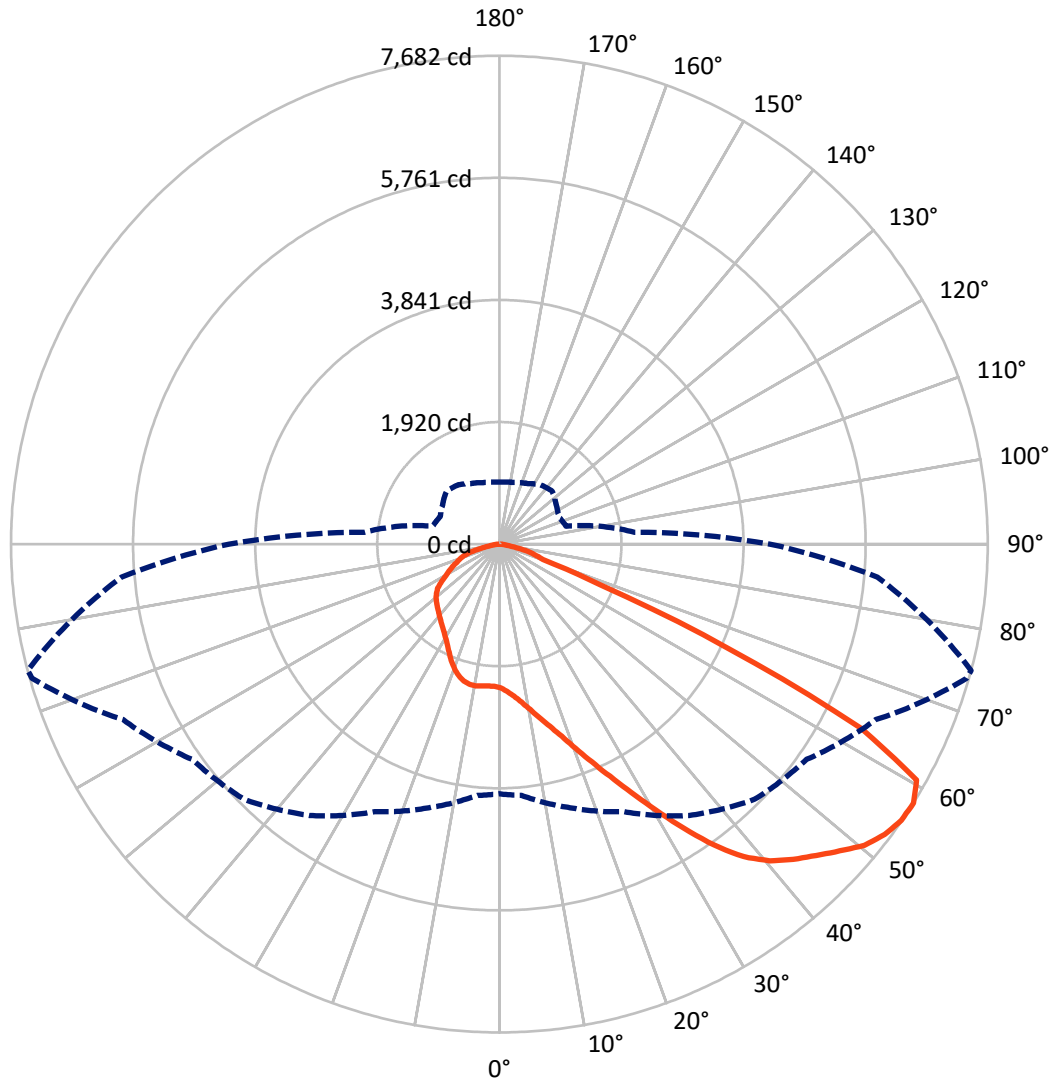
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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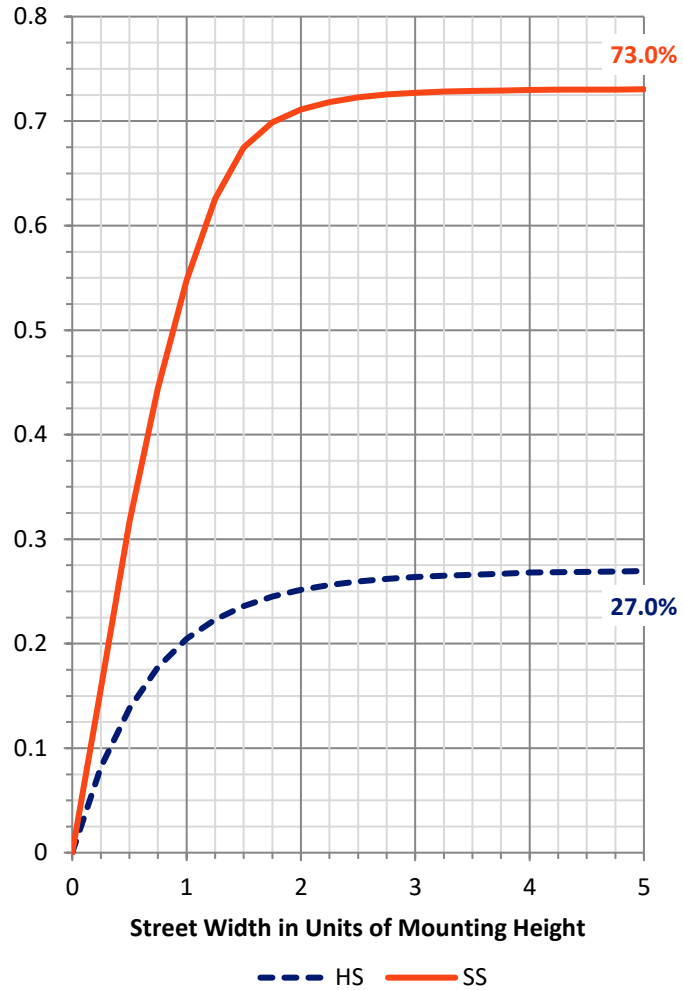
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3264.5	0.0	3264.5
	% Fixture	27.1	0.0	27.1
<b>Street Side</b>	Lumens	8803.0	0.0	8803.0
	% Fixture	72.9	0.0	72.9
<b>Total</b>	Lumens	12067.5	0.0	12067.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	226.1	1.9
10°-20°	720.0	6.0
20°-30°	1276.9	10.6
30°-40°	1954.8	16.2
40°-50°	2721.9	22.6
50°-60°	3118.7	25.8
60°-70°	1602.5	13.3
70°-80°	403.4	3.3
80°-90°	43.1	0.4
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°	12067.5	100.0
0°-180°	12067.5	100.0

**Coefficient of Utilization**



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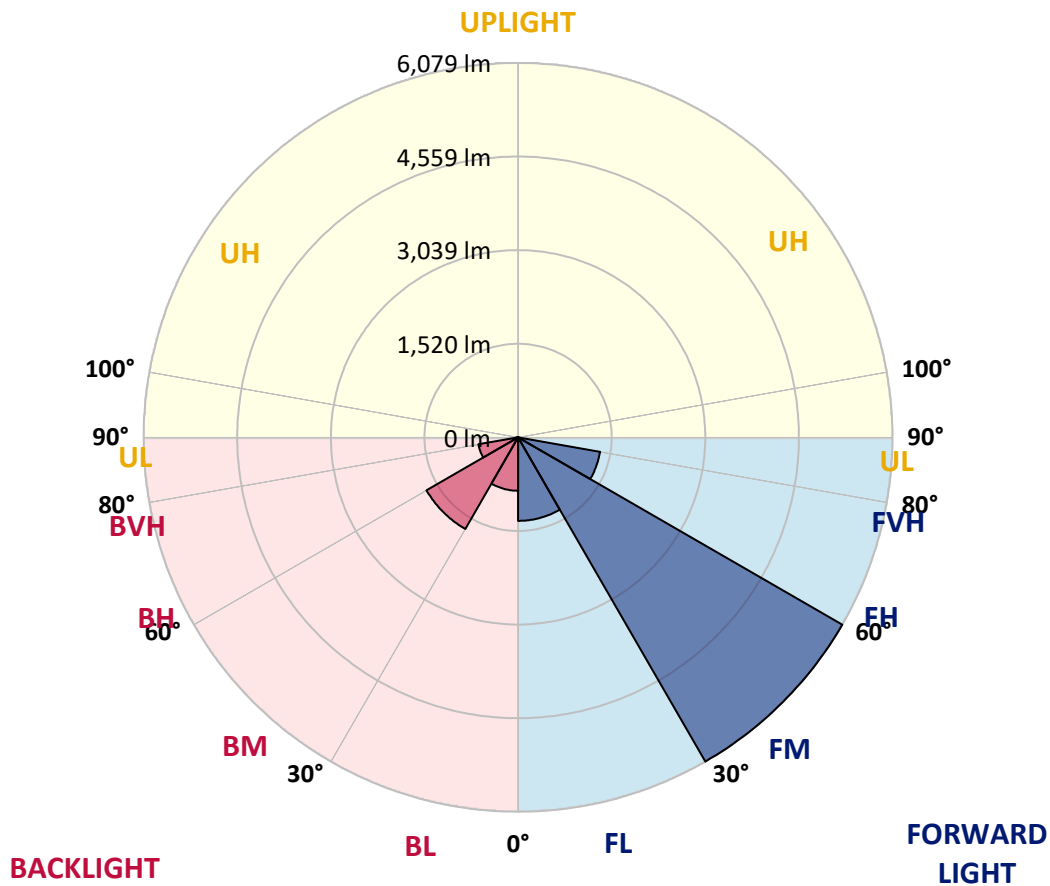
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1355.9	11.2			
FM (30°-60°)	6078.5	50.4			
FH (60°-80°)	1352.6	11.2			G1/1800
FVH (80°-90°)	16.0	0.1			G1/100
BL (0°-30°)	867.3	7.2	B2/1000		
BM (30°-60°)	1716.8	14.2	B2/2500		
BH (60°-80°)	653.2	5.4	B2/1000		G2/1000
BVH (80°-90°)	27.2	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0
2.5°	2428.0	2434.3	2428.0	2438.4	2417.7	2408.3	2385.5	2351.3	2324.3	2320.1	2290.0
5°	2616.9	2630.4	2622.1	2617.9	2589.9	2569.2	2534.9	2466.4	2410.4	2402.1	2343.0
7.5°	2738.3	2747.6	2747.6	2750.8	2740.4	2716.5	2680.2	2599.3	2520.4	2507.9	2418.7
10°	2778.8	2786.0	2799.5	2825.5	2846.2	2853.5	2829.6	2751.8	2655.3	2642.8	2518.3
12.5°	2788.1	2796.4	2817.2	2864.9	2922.0	2973.8	2978.0	2920.9	2813.0	2799.5	2633.5
15°	2805.7	2814.0	2842.1	2901.2	2985.3	3084.9	3146.1	3106.7	2987.3	2972.8	2764.2
17.5°	2803.7	2813.0	2854.5	2933.4	3046.5	3190.7	3309.0	3325.6	3202.1	3177.2	2912.6
20°	2798.5	2806.8	2851.4	2947.9	3088.0	3286.2	3499.9	3586.0	3453.2	3430.4	3085.9
22.5°	2840.0	2849.3	2883.6	2963.5	3109.8	3359.8	3676.3	3883.8	3751.0	3718.9	3285.1
25°	2933.4	2946.9	2967.6	3022.6	3149.2	3425.2	3856.9	4221.1	4085.1	4046.7	3502.0
27.5°	3077.6	3094.2	3123.3	3149.2	3237.4	3508.2	4036.4	4598.8	4462.8	4422.4	3731.3
30°	3254.0	3275.8	3313.1	3330.8	3391.0	3630.7	4231.4	4987.9	4909.0	4853.0	3989.7
32.5°	3497.8	3527.9	3563.2	3568.4	3604.7	3816.4	4424.4	5373.9	5372.8	5333.4	4283.3
35°	3815.4	3847.5	3854.8	3862.1	3879.7	4071.7	4657.9	5725.6	5861.6	5815.9	4602.9
37.5°	4161.9	4208.6	4220.0	4187.9	4212.8	4378.8	4920.4	6007.9	6287.0	6238.2	4912.1
40°	4532.4	4551.0	4582.2	4531.3	4562.4	4730.5	5177.8	6188.4	6604.5	6552.6	5156.0
42.5°	4798.0	4832.2	4878.9	4860.2	4877.9	5031.5	5358.3	6275.6	6830.7	6778.8	5331.3
45°	5086.5	5096.8	5126.9	5122.8	5133.1	5276.3	5488.0	6314.0	7033.0	6986.3	5480.7
47.5°	5337.6	5353.1	5372.8	5350.0	5327.2	5420.6	5593.9	6347.2	7266.5	7210.5	5637.4
50°	5579.3	5592.8	5616.7	5550.3	5465.2	5489.1	5645.7	6392.8	7485.4	7446.0	5760.9
52.5°	5623.9	5638.5	5750.5	5764.0	5655.1	5571.0	5737.0	6493.5	7614.1	7589.2	5805.5
55°	5062.6	5088.5	5311.6	5567.9	5836.7	5809.7	5883.3	6546.4	7665.0	7671.2	5885.4
57.5°	3929.5	3966.9	4292.7	4644.4	5209.9	5677.9	5902.0	6532.9	7647.3	7681.6	5967.4
60°	2577.5	2599.3	2985.3	3379.6	3965.8	4613.3	5282.6	6290.1	7490.6	7539.4	5946.6
62.5°	1556.4	1581.3	1891.6	2190.4	2536.0	2968.7	3582.9	5055.3	6278.7	6387.6	4762.7
65°	1086.4	1119.6	1391.5	1637.4	1756.7	1667.5	1814.8	2823.4	3911.9	3957.5	2910.5
67.5°	787.6	810.4	1033.5	1326.1	1457.9	1177.7	897.5	1250.3	1703.8	1720.4	1200.5
70°	515.7	541.6	744.0	1009.6	1190.2	954.6	671.3	676.5	717.0	725.3	697.3
72.5°	283.3	298.8	459.7	670.3	703.5	570.7	524.0	562.4	590.4	590.4	597.7
75°	146.3	159.8	187.8	221.0	266.7	312.3	377.7	434.8	464.9	466.9	463.8
77.5°	74.7	79.9	100.6	109.0	119.3	139.0	180.5	231.4	258.4	268.7	266.7
80°	35.3	37.4	42.5	49.8	61.2	77.8	97.5	116.2	132.8	134.9	146.3
82.5°	18.7	20.8	22.8	27.0	33.2	41.5	57.1	68.5	78.9	80.9	90.3
85°	7.3	8.3	9.3	10.4	14.5	17.6	23.9	32.2	39.4	39.4	46.7
87.5°	0.0	0.0	0.0	0.0	1.0	2.1	4.2	5.2	7.3	7.3	12.5
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°	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0	2260.0
2.5°	2282.8	2252.7	2239.2	2217.4	2199.8	2180.1	2164.5	2153.1	2145.8	2141.7	2137.5
5°	2320.1	2274.5	2238.2	2194.6	2164.5	2135.4	2111.6	2095.0	2086.7	2080.4	2076.3
7.5°	2378.2	2317.0	2248.5	2181.1	2128.2	2081.5	2051.4	2033.8	2022.3	2018.2	2015.1
10°	2458.1	2373.1	2260.0	2153.1	2074.2	2023.4	2002.6	1994.3	1995.4	1993.3	1992.2
12.5°	2548.4	2432.2	2256.8	2103.3	2016.1	1986.0	1987.1	2000.5	2016.1	2020.3	2021.3
15°	2646.0	2490.3	2226.7	2038.9	1970.5	1973.6	2000.5	2032.7	2061.8	2073.2	2075.3
17.5°	2751.8	2539.1	2171.8	1968.4	1933.1	1966.3	2016.1	2069.0	2111.6	2130.2	2135.4
20°	2870.1	2580.6	2093.9	1898.9	1897.8	1952.8	2025.4	2095.0	2148.9	2173.8	2178.0
22.5°	2995.6	2606.5	1998.5	1834.5	1861.5	1935.2	2018.2	2090.8	2147.9	2172.8	2178.0
25°	3122.2	2614.8	1893.7	1775.4	1824.1	1907.2	1982.9	2041.0	2095.0	2116.8	2120.9
27.5°	3240.5	2591.0	1794.1	1724.5	1789.9	1865.7	1916.5	1947.6	1985.0	2001.6	2004.7
30°	3360.9	2543.2	1710.0	1684.1	1751.5	1808.6	1831.4	1833.5	1848.0	1848.0	1850.1
32.5°	3482.3	2472.7	1636.3	1644.6	1703.8	1741.1	1744.3	1720.4	1702.7	1673.7	1672.7
35°	3622.4	2401.1	1576.2	1600.0	1647.8	1670.6	1661.2	1615.6	1573.0	1525.3	1523.2
37.5°	3752.1	2327.4	1525.3	1554.4	1584.5	1601.1	1579.3	1524.3	1489.0	1440.2	1433.0
40°	3858.9	2261.0	1476.5	1506.6	1521.2	1535.7	1500.4	1455.8	1461.0	1434.0	1433.0
42.5°	3921.2	2196.7	1430.9	1453.7	1463.1	1473.4	1442.3	1409.1	1437.1	1416.4	1417.4
45°	3966.9	2140.6	1389.4	1397.7	1420.5	1436.1	1407.0	1369.7	1375.9	1296.0	1277.3
47.5°	4018.7	2109.5	1350.0	1341.7	1382.1	1409.1	1364.5	1310.5	1273.2	1194.3	1187.0
50°	4073.7	2098.1	1308.4	1285.6	1334.4	1360.3	1308.4	1241.0	1192.2	1149.7	1145.5
52.5°	4092.4	2097.0	1256.6	1218.2	1266.9	1303.3	1259.7	1191.2	1133.1	1091.6	1089.5
55°	4166.1	2127.1	1190.2	1125.8	1171.5	1246.2	1214.0	1115.4	1068.8	1050.1	1048.0
57.5°	4252.2	2132.3	1085.4	1025.2	1088.5	1176.7	1136.2	1051.1	1000.3	977.4	975.4
60°	4216.9	2004.7	973.3	948.4	1017.9	1111.3	1073.9	1000.3	941.1	919.3	917.3
62.5°	3213.5	1415.3	891.3	882.0	942.2	1016.9	1009.6	932.8	876.8	861.2	859.2
65°	1933.1	994.0	812.5	811.4	854.0	925.6	934.9	872.6	813.5	791.7	791.7
67.5°	955.7	760.6	723.2	718.0	745.0	795.9	835.3	784.4	734.6	713.9	710.8
70°	675.5	670.3	657.9	643.3	648.5	669.3	685.9	643.3	590.4	569.7	565.5
72.5°	584.2	585.2	576.9	565.5	561.4	546.8	532.3	501.2	469.0	447.2	449.3
75°	453.4	455.5	460.7	456.6	445.1	429.6	414.0	374.6	348.6	327.9	323.7
77.5°	264.6	275.0	291.6	287.4	289.5	267.7	261.5	223.1	199.2	184.7	181.6
80°	149.4	155.6	162.9	168.1	161.9	152.5	139.0	118.3	111.0	100.6	98.6
82.5°	90.3	96.5	99.6	103.8	101.7	89.2	78.9	65.4	59.1	54.0	52.9
85°	45.7	49.8	52.9	55.0	48.8	40.5	36.3	29.1	24.9	21.8	21.8
87.5°	11.4	12.5	14.5	12.5	11.4	5.2	4.2	1.0	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)