

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: P637554

Luminaire Tested: GWS-SA4D-722-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637554
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-SA4D-722-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) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15039 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

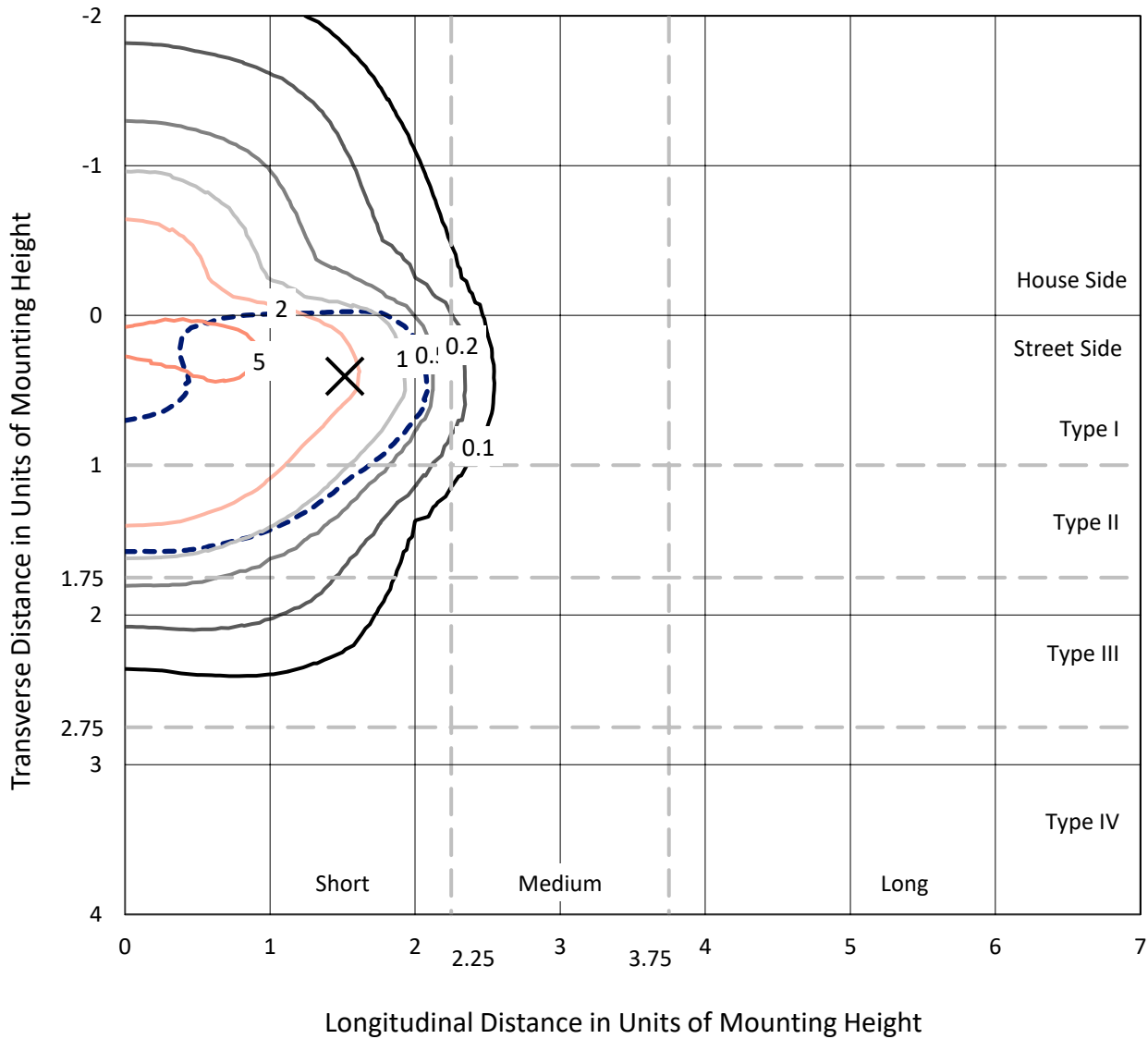
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637554
 CATALOG NUMBER: GWS-SA4D-722-U-T2-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

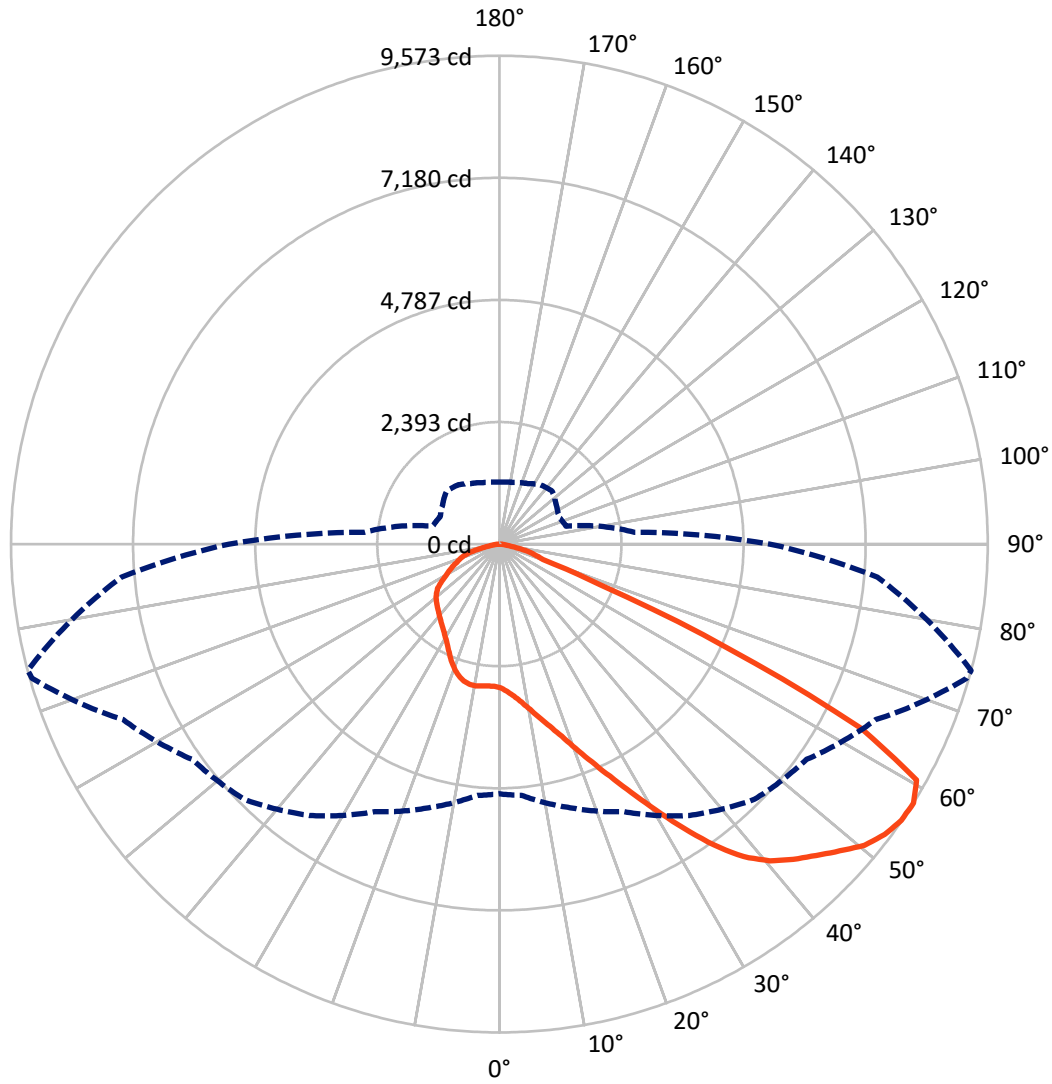
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P637554
CATALOG NUMBER: GWS-SA4D-722-U-T2-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P637554
 CATALOG NUMBER: GWS-SA4D-722-U-T2-W-GRSWH

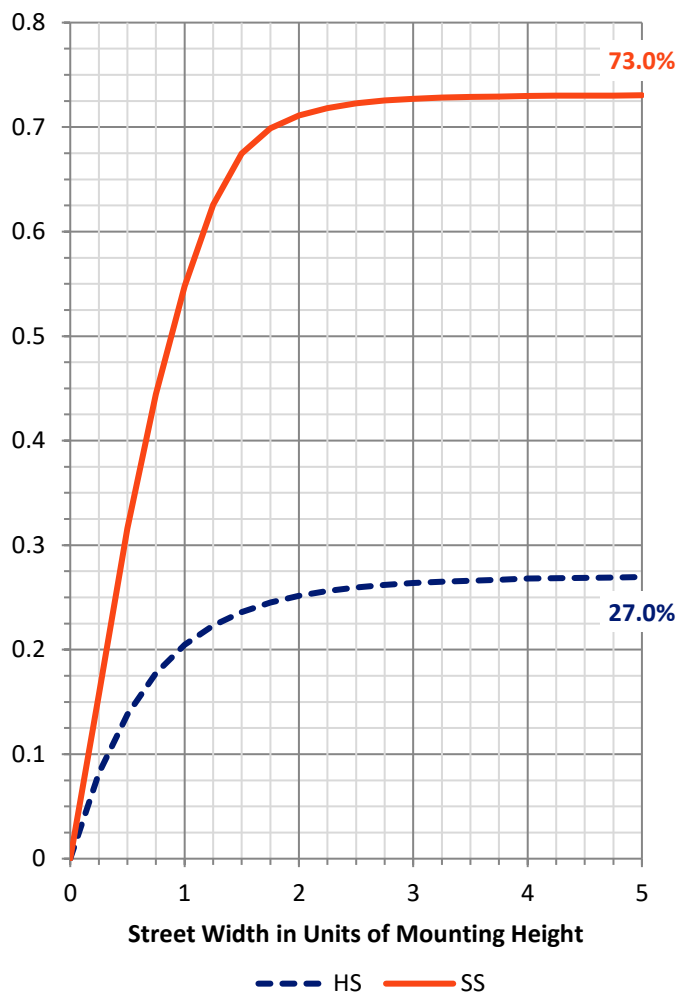
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4068.4	0.0	4068.4
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	10970.6	0.0	10970.6
	% Fixture	72.9	0.0	72.9
Total	Lumens	15039.0	0.0	15039.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	281.8	1.9
10°-20°	897.3	6.0
20°-30°	1591.4	10.6
30°-40°	2436.1	16.2
40°-50°	3392.1	22.6
50°-60°	3886.7	25.8
60°-70°	1997.0	13.3
70°-80°	502.8	3.3
80°-90°	53.7	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°	15039.0	100.0
0°-180°	15039.0	100.0

Coefficient of Utilization



REPORT NUMBER: P637554

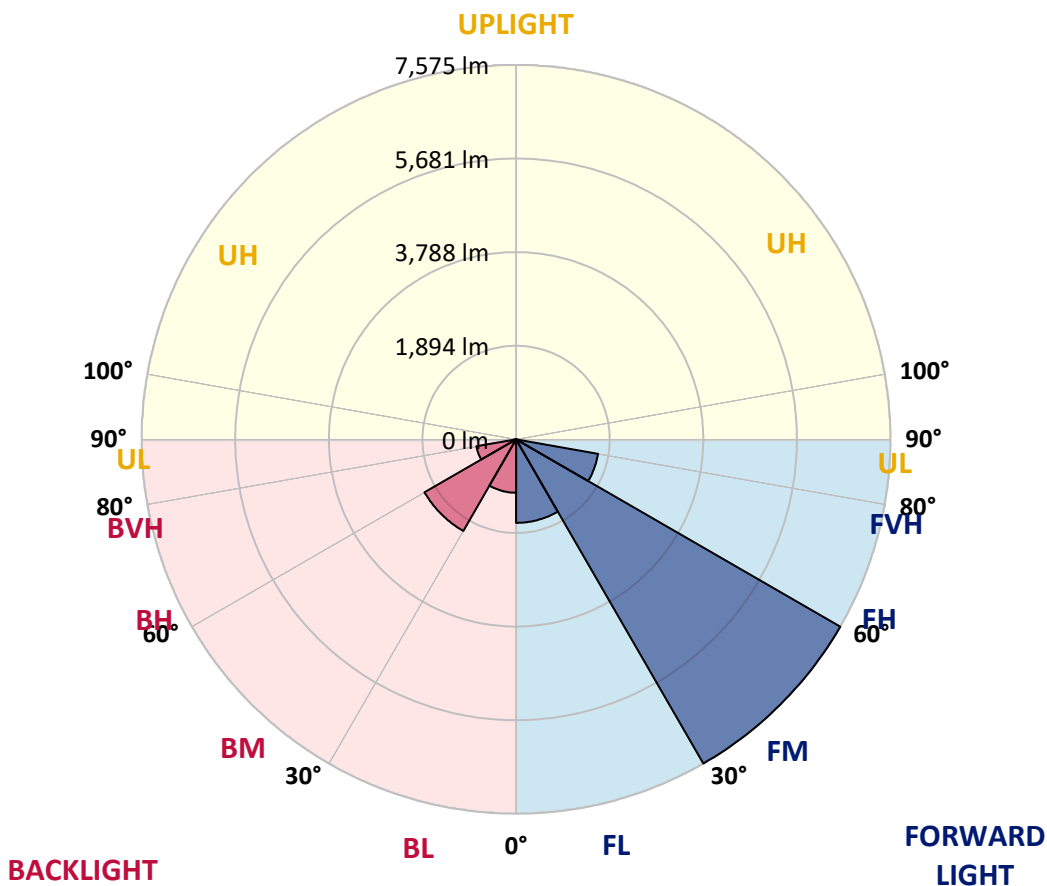
CATALOG NUMBER: GWS-SA4D-722-U-T2-W-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1689.7	11.2			
FM (30°-60°)	7575.3	50.4			
FH (60°-80°)	1685.7	11.2			G1/1800
FVH (80°-90°)	19.9	0.1			G1/100
BL (0°-30°)	1080.8	7.2	B3/2500		
BM (30°-60°)	2139.6	14.2	B2/2500		
BH (60°-80°)	814.1	5.4	B2/1000		G2/1000
BVH (80°-90°)	33.9	0.2			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: P637554

CATALOG NUMBER: GWS-SA4D-722-U-T2-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4
2.5°	3025.9	3033.7	3025.9	3038.9	3013.0	3001.4	2972.9	2930.2	2896.6	2891.4	2853.9
5°	3261.3	3278.1	3267.7	3262.6	3227.7	3201.8	3159.1	3073.8	3003.9	2993.6	2919.9
7.5°	3412.6	3424.2	3424.2	3428.1	3415.2	3385.4	3340.2	3239.3	3141.0	3125.5	3014.3
10°	3463.0	3472.1	3488.9	3521.2	3547.1	3556.1	3526.4	3429.4	3309.1	3293.6	3138.4
12.5°	3474.6	3485.0	3510.9	3570.3	3641.5	3706.1	3711.3	3640.2	3505.7	3488.9	3282.0
15°	3496.6	3507.0	3541.9	3615.6	3720.3	3844.5	3920.8	3871.6	3722.9	3704.8	3444.9
17.5°	3494.0	3505.7	3557.4	3655.7	3796.6	3976.4	4123.8	4144.5	3990.6	3959.6	3629.8
20°	3487.6	3497.9	3553.5	3673.8	3848.4	4095.4	4361.7	4469.1	4303.5	4275.1	3845.8
22.5°	3539.3	3550.9	3593.6	3693.2	3875.5	4187.2	4581.6	4840.2	4674.7	4634.6	4094.1
25°	3655.7	3672.5	3698.4	3766.9	3924.7	4268.6	4806.6	5260.5	5091.1	5043.2	4364.3
27.5°	3835.4	3856.1	3892.3	3924.7	4034.6	4372.1	5030.3	5731.2	5561.8	5511.3	4650.1
30°	4055.3	4082.4	4129.0	4151.0	4226.0	4524.7	5273.4	6216.1	6117.8	6048.0	4972.1
32.5°	4359.2	4396.7	4440.6	4447.1	4492.3	4756.1	5513.9	6697.1	6695.8	6646.7	5338.1
35°	4754.9	4794.9	4804.0	4813.0	4835.0	5074.3	5804.9	7135.5	7304.9	7248.0	5736.3
37.5°	5186.8	5244.9	5259.2	5219.1	5250.1	5457.0	6132.0	7487.2	7835.1	7774.3	6121.7
40°	5648.4	5671.7	5710.5	5647.1	5685.9	5895.4	6452.7	7712.2	8230.8	8166.1	6425.6
42.5°	5979.4	6022.1	6080.3	6057.0	6079.0	6270.4	6677.7	7820.9	8512.7	8448.0	6644.1
45°	6338.9	6351.9	6389.4	6384.2	6397.1	6575.6	6839.4	7868.7	8764.9	8706.7	6830.3
47.5°	6651.9	6671.3	6695.8	6667.4	6638.9	6755.3	6971.3	7910.1	9055.8	8986.0	7025.6
50°	6953.2	6970.0	6999.7	6917.0	6810.9	6840.7	7035.9	7967.0	9328.7	9279.5	7179.5
52.5°	7008.8	7026.9	7166.5	7183.4	7047.6	6942.8	7149.7	8092.4	9489.0	9458.0	7235.1
55°	6309.2	6341.5	6619.5	6939.0	7273.9	7240.3	7332.1	8158.4	9552.4	9560.1	7334.7
57.5°	4897.1	4943.6	5349.7	5788.1	6492.8	7076.0	7355.3	8141.6	9530.4	9573.1	7436.8
60°	3212.1	3239.3	3720.3	4211.7	4942.4	5749.3	6583.3	7839.0	9335.1	9395.9	7410.9
62.5°	1939.7	1970.7	2357.4	2729.8	3160.4	3699.7	4465.2	6300.1	7824.7	7960.5	5935.5
65°	1353.9	1395.3	1734.1	2040.6	2189.3	2078.1	2261.7	3518.6	4875.1	4932.0	3627.2
67.5°	981.5	1009.9	1288.0	1652.6	1816.9	1467.7	1118.6	1558.2	2123.3	2144.0	1496.2
70°	642.7	675.0	927.2	1258.2	1483.2	1189.7	836.7	843.1	893.6	903.9	869.0
72.5°	353.0	372.4	572.9	835.4	876.7	711.2	653.0	700.9	735.8	735.8	744.8
75°	182.3	199.1	234.1	275.4	332.3	389.2	470.7	541.8	579.3	581.9	578.0
77.5°	93.1	99.6	125.4	135.8	148.7	173.3	225.0	288.4	322.0	334.9	332.3
80°	44.0	46.6	53.0	62.1	76.3	97.0	121.6	144.8	165.5	168.1	182.3
82.5°	23.3	25.9	28.4	33.6	41.4	51.7	71.1	85.3	98.3	100.9	112.5
85°	9.1	10.3	11.6	12.9	18.1	22.0	29.7	40.1	49.1	49.1	58.2
87.5°	0.0	0.0	0.0	0.0	1.3	2.6	5.2	6.5	9.1	9.1	15.5
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: P637554

CATALOG NUMBER: GWS-SA4D-722-U-T2-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4	2816.4
2.5°	2844.9	2807.4	2790.6	2763.4	2741.4	2716.9	2697.5	2683.3	2674.2	2669.0	2663.9
5°	2891.4	2834.5	2789.3	2735.0	2697.5	2661.3	2631.5	2610.8	2600.5	2592.7	2587.6
7.5°	2963.9	2887.6	2802.2	2718.2	2652.2	2594.0	2556.5	2534.5	2520.3	2515.1	2511.3
10°	3063.4	2957.4	2816.4	2683.3	2585.0	2521.6	2495.7	2485.4	2486.7	2484.1	2482.8
12.5°	3175.9	3031.1	2812.6	2621.2	2512.6	2475.1	2476.3	2493.2	2512.6	2517.7	2519.0
15°	3297.5	3103.5	2775.1	2541.0	2455.7	2459.5	2493.2	2533.2	2569.5	2583.7	2586.3
17.5°	3429.4	3164.3	2706.5	2453.1	2409.1	2450.5	2512.6	2578.5	2631.5	2654.8	2661.3
20°	3576.8	3216.0	2609.5	2366.4	2365.1	2433.7	2524.2	2610.8	2678.1	2709.1	2714.3
22.5°	3733.3	3248.4	2490.6	2286.3	2319.9	2411.7	2515.1	2605.7	2676.8	2707.8	2714.3
25°	3891.0	3258.7	2360.0	2212.6	2273.3	2376.8	2471.2	2543.6	2610.8	2638.0	2643.2
27.5°	4038.5	3229.0	2235.8	2149.2	2230.7	2325.1	2388.4	2427.2	2473.8	2494.5	2498.3
30°	4188.5	3169.5	2131.1	2098.8	2182.8	2253.9	2282.4	2285.0	2303.1	2303.1	2305.7
32.5°	4339.8	3081.5	2039.3	2049.6	2123.3	2169.9	2173.8	2144.0	2122.0	2085.8	2084.5
35°	4514.3	2992.3	1964.3	1994.0	2053.5	2081.9	2070.3	2013.4	1960.4	1900.9	1898.3
37.5°	4676.0	2900.5	1900.9	1937.1	1974.6	1995.3	1968.1	1899.6	1855.6	1794.9	1785.8
40°	4809.2	2817.7	1840.1	1877.6	1895.7	1913.8	1869.9	1814.3	1820.7	1787.1	1785.8
42.5°	4886.7	2737.6	1783.2	1811.7	1823.3	1836.2	1797.5	1756.1	1791.0	1765.1	1766.4
45°	4943.6	2667.7	1731.5	1741.9	1770.3	1789.7	1753.5	1706.9	1714.7	1615.1	1591.8
47.5°	5008.3	2628.9	1682.4	1672.0	1722.5	1756.1	1700.5	1633.2	1586.7	1488.4	1479.3
50°	5076.8	2614.7	1630.6	1602.2	1663.0	1695.3	1630.6	1546.6	1485.8	1432.8	1427.6
52.5°	5100.1	2613.4	1566.0	1518.1	1578.9	1624.2	1569.9	1484.5	1412.1	1360.4	1357.8
55°	5191.9	2650.9	1483.2	1403.0	1459.9	1553.1	1513.0	1390.1	1331.9	1308.7	1306.1
57.5°	5299.3	2657.4	1352.6	1277.6	1356.5	1466.4	1416.0	1309.9	1246.6	1218.1	1215.5
60°	5255.3	2498.3	1213.0	1181.9	1268.6	1384.9	1338.4	1246.6	1172.9	1145.7	1143.1
62.5°	4004.8	1763.8	1110.8	1099.2	1174.2	1267.3	1258.2	1162.5	1092.7	1073.3	1070.7
65°	2409.1	1238.8	1012.5	1011.2	1064.2	1153.5	1165.1	1087.5	1013.8	986.7	986.7
67.5°	1191.0	947.9	901.3	894.8	928.5	991.8	1041.0	977.6	915.5	889.7	885.8
70°	841.8	835.4	819.8	801.7	808.2	834.1	854.8	801.7	735.8	709.9	704.8
72.5°	728.0	729.3	719.0	704.8	699.6	681.5	663.4	624.6	584.5	557.3	559.9
75°	565.1	567.7	574.2	569.0	554.8	535.4	516.0	466.8	434.5	408.6	403.5
77.5°	329.7	342.7	363.4	358.2	360.8	333.6	325.9	278.0	248.3	230.2	226.3
80°	186.2	194.0	203.0	209.5	201.7	190.1	173.3	147.4	138.4	125.4	122.8
82.5°	112.5	120.3	124.1	129.3	126.7	111.2	98.3	81.5	73.7	67.2	65.9
85°	56.9	62.1	65.9	68.5	60.8	50.4	45.3	36.2	31.0	27.2	27.2
87.5°	14.2	15.5	18.1	15.5	14.2	6.5	5.2	1.3	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)