

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: P633814

Luminaire Tested: GWS-SA2F-740-U-T2-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633814
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-SA2F-740-U-T2-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSALLED GLARE SHIELD, WH
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13525.1 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

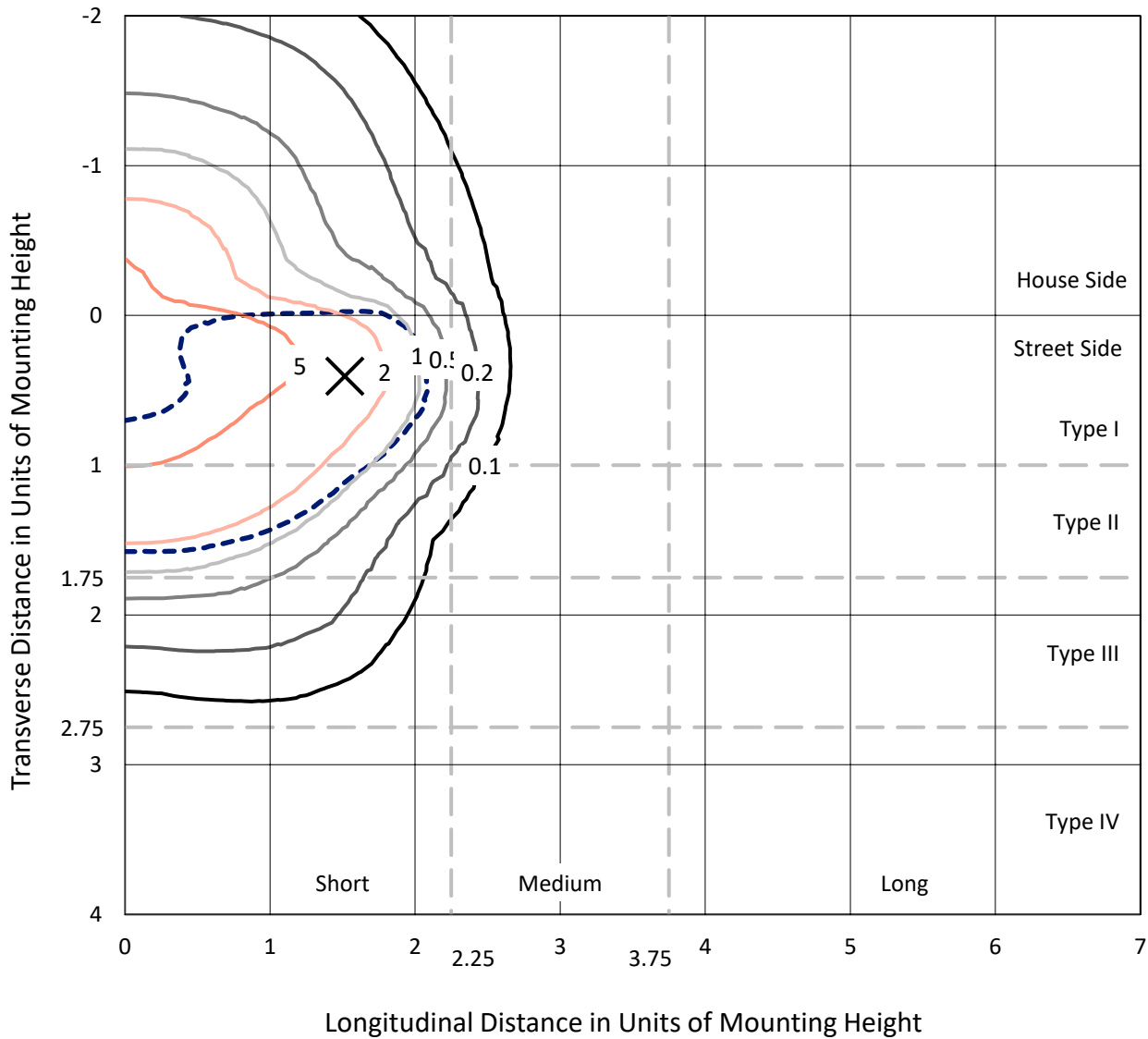
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

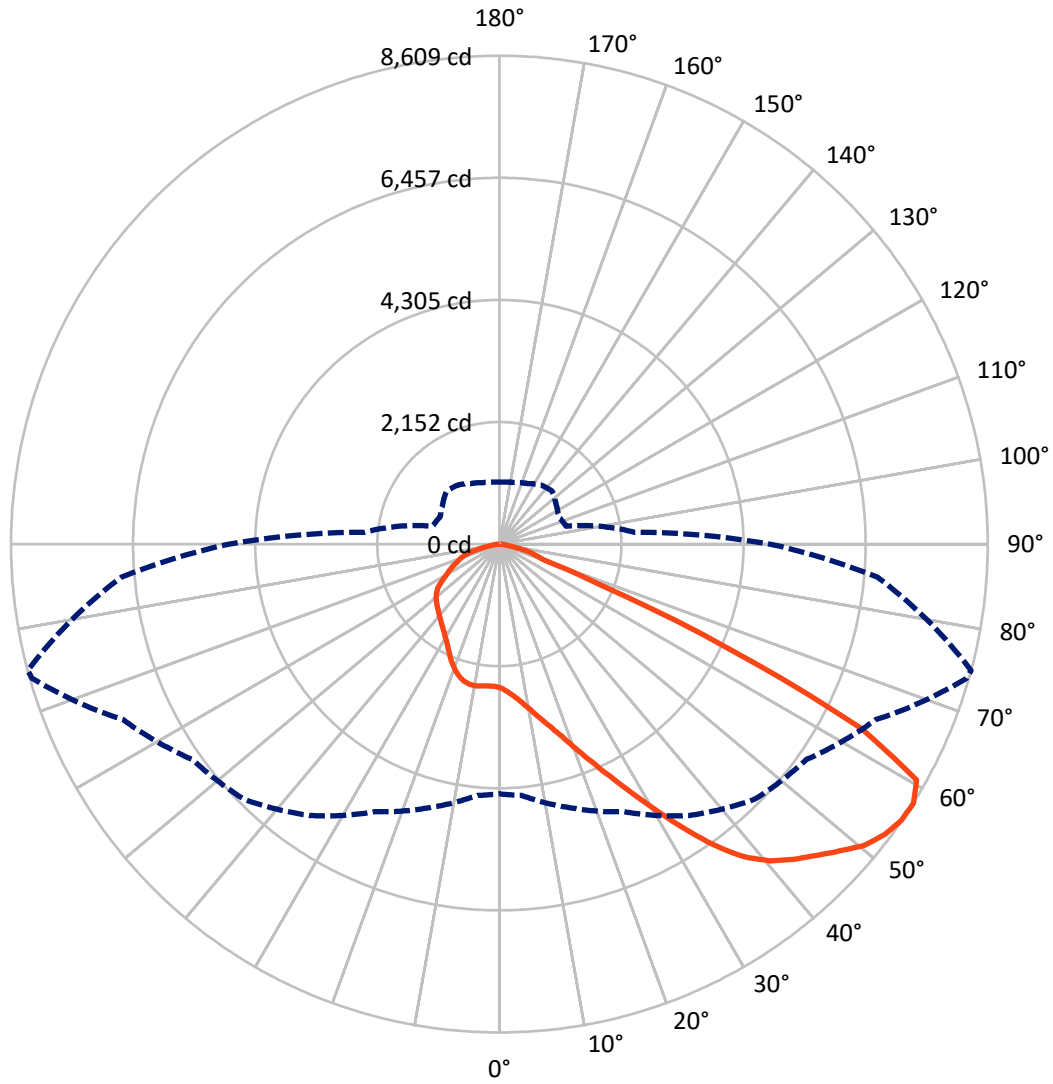
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 9 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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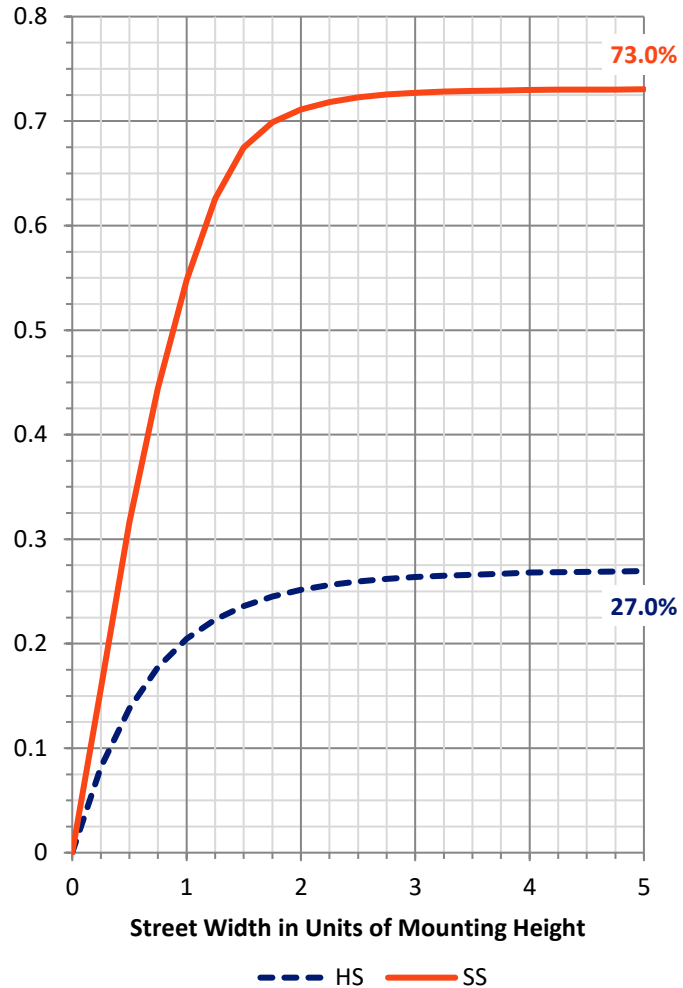
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3658.8	0.0	3658.8
	% Fixture	27.1	0.0	27.1
Street Side	Lumens	9866.3	0.0	9866.3
	% Fixture	72.9	0.0	72.9
Total	Lumens	13525.1	0.0	13525.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	253.5	1.9
10°-20°	807.0	6.0
20°-30°	1431.2	10.6
30°-40°	2190.9	16.2
40°-50°	3050.6	22.6
50°-60°	3495.4	25.8
60°-70°	1796.0	13.3
70°-80°	452.2	3.3
80°-90°	48.3	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°	13525.1	100.0
0°-180°	13525.1	100.0

Coefficient of Utilization



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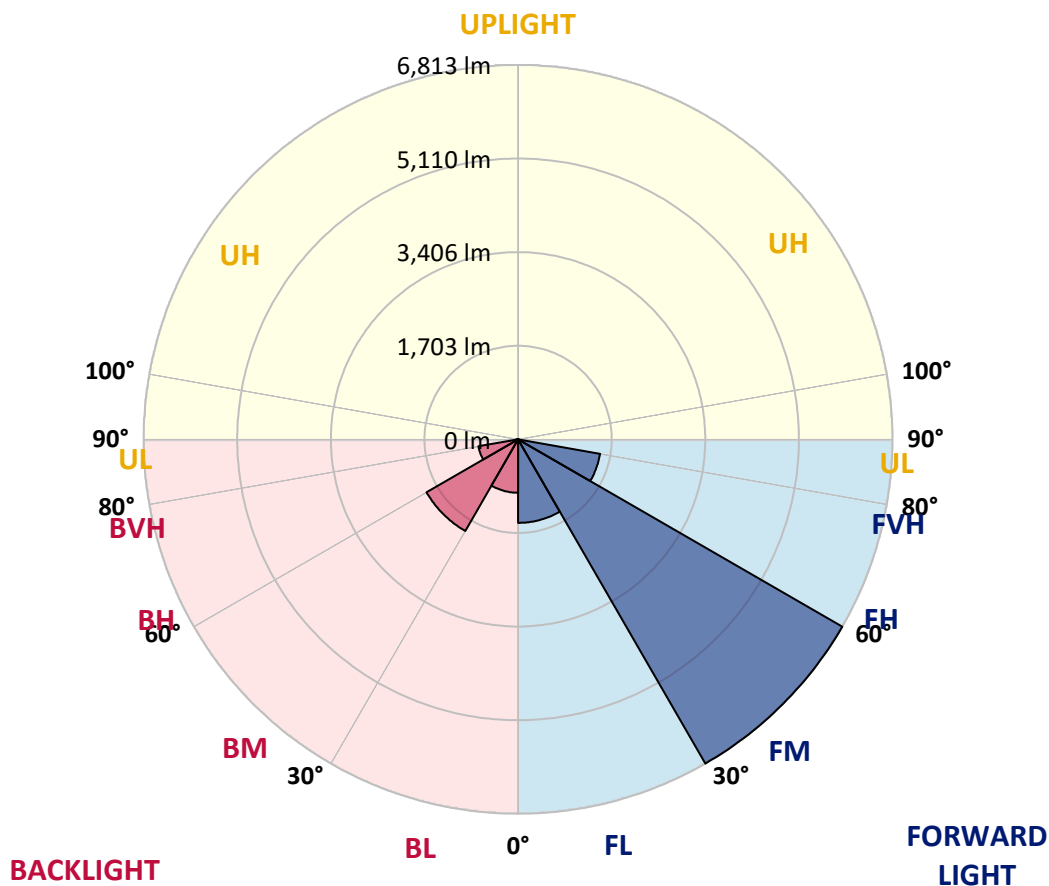
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1519.6	11.2			
FM (30°-60°)	6812.7	50.4			
FH (60°-80°)	1516.0	11.2			G1/1800
FVH (80°-90°)	17.9	0.1			G1/100
BL (0°-30°)	972.0	7.2	B2/1000		
BM (30°-60°)	1924.2	14.2	B2/2500		
BH (60°-80°)	732.2	5.4	B2/1000		G2/1000
BVH (80°-90°)	30.5	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°	2532.9	2532.9	2532.9	2532.9	2532.9	2532.9	2532.9	2532.9	2532.9	2532.9	2532.9
2.5°	2721.3	2728.3	2721.3	2733.0	2709.7	2699.2	2673.6	2635.3	2605.0	2600.4	2566.7
5°	2933.0	2948.1	2938.8	2934.1	2902.7	2879.5	2841.1	2764.4	2701.6	2692.3	2626.0
7.5°	3069.1	3079.5	3079.5	3083.0	3071.4	3044.6	3003.9	2913.2	2824.8	2810.9	2710.9
10°	3114.4	3122.5	3137.7	3166.7	3190.0	3198.1	3171.4	3084.2	2976.0	2962.1	2822.5
12.5°	3124.9	3134.2	3157.4	3210.9	3274.9	3333.0	3337.7	3273.7	3152.8	3137.7	2951.6
15°	3144.6	3153.9	3185.3	3251.6	3345.8	3457.5	3526.1	3481.9	3348.2	3331.9	3098.1
17.5°	3142.3	3152.8	3199.3	3287.7	3414.5	3576.1	3708.7	3727.3	3588.9	3561.0	3264.4
20°	3136.5	3145.8	3195.8	3304.0	3461.0	3683.1	3922.7	4019.2	3870.3	3844.7	3458.6
22.5°	3183.0	3193.5	3231.9	3321.4	3485.4	3765.7	4120.4	4353.0	4204.1	4168.0	3681.9
25°	3287.7	3302.8	3326.1	3387.7	3529.6	3838.9	4322.7	4730.9	4578.6	4535.5	3925.0
27.5°	3449.3	3467.9	3500.5	3529.6	3628.4	3932.0	4523.9	5154.2	5001.9	4956.5	4182.0
30°	3647.0	3671.5	3713.3	3733.1	3800.6	4069.2	4742.6	5590.3	5502.0	5439.2	4471.6
32.5°	3920.3	3954.1	3993.6	3999.4	4040.1	4277.4	4958.9	6023.0	6021.8	5977.6	4800.7
35°	4276.2	4312.3	4320.4	4328.5	4348.3	4563.5	5220.5	6417.2	6569.6	6518.4	5158.9
37.5°	4664.6	4717.0	4729.8	4693.7	4721.6	4907.7	5514.8	6733.5	7046.4	6991.7	5505.5
40°	5079.8	5100.7	5135.6	5078.6	5113.5	5301.9	5803.2	6935.9	7402.2	7344.1	5778.7
42.5°	5377.5	5415.9	5468.2	5447.3	5467.1	5639.2	6005.5	7033.6	7655.8	7597.6	5975.3
45°	5700.8	5712.5	5746.2	5741.5	5753.2	5913.7	6150.9	7076.6	7882.5	7830.2	6142.8
47.5°	5982.3	5999.7	6021.8	5996.2	5970.6	6075.3	6269.5	7113.8	8144.2	8081.4	6318.4
50°	6253.2	6268.4	6295.1	6220.7	6125.3	6152.1	6327.7	7165.0	8389.6	8345.4	6456.8
52.5°	6303.2	6319.5	6445.1	6460.2	6338.1	6243.9	6430.0	7277.8	8533.8	8505.9	6506.8
55°	5674.1	5703.2	5953.2	6240.4	6541.6	6511.4	6594.0	7337.1	8590.8	8597.8	6596.3
57.5°	4404.1	4446.0	4811.2	5205.4	5839.2	6363.7	6614.9	7322.0	8571.0	8609.4	6688.2
60°	2888.8	2913.2	3345.8	3787.8	4444.8	5170.5	5920.6	7049.9	8395.4	8450.1	6664.9
62.5°	1744.4	1772.4	2120.1	2455.0	2842.3	3327.2	4015.7	5665.9	7037.1	7159.2	5338.0
65°	1217.6	1254.8	1559.5	1835.2	1968.9	1868.9	2034.0	3164.4	4384.4	4435.5	3262.1
67.5°	882.7	908.3	1158.3	1486.3	1634.0	1320.0	1006.0	1401.4	1909.6	1928.2	1345.5
70°	578.0	607.1	833.8	1131.6	1333.9	1069.9	752.4	758.2	803.6	812.9	781.5
72.5°	317.5	334.9	515.2	751.3	788.5	639.6	587.3	630.3	661.7	661.7	669.9
75°	164.0	179.1	210.5	247.7	298.9	350.1	423.3	487.3	521.0	523.3	519.8
77.5°	83.7	89.5	112.8	122.1	133.7	155.8	202.4	259.3	289.6	301.2	298.9
80°	39.5	41.9	47.7	55.8	68.6	87.2	109.3	130.3	148.9	151.2	164.0
82.5°	20.9	23.3	25.6	30.2	37.2	46.5	64.0	76.8	88.4	90.7	101.2
85°	8.1	9.3	10.5	11.6	16.3	19.8	26.7	36.1	44.2	44.2	52.3
87.5°	0.0	0.0	0.0	0.0	1.2	2.3	4.7	5.8	8.1	8.1	14.0
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°	2532.9	2532.9	2532.9	2532.9	2532.9	2532.9	2532.9	2532.9	2532.9	2532.9	2532.9
2.5°	2558.5	2524.8	2509.7	2485.2	2465.5	2443.4	2425.9	2413.1	2405.0	2400.3	2395.7
5°	2600.4	2549.2	2508.5	2459.7	2425.9	2393.4	2366.6	2348.0	2338.7	2331.7	2327.1
7.5°	2665.5	2596.9	2520.1	2444.5	2385.2	2332.9	2299.2	2279.4	2266.6	2262.0	2258.5
10°	2755.1	2659.7	2532.9	2413.1	2324.8	2267.8	2244.5	2235.2	2236.4	2234.0	2232.9
12.5°	2856.2	2726.0	2529.4	2357.3	2259.6	2225.9	2227.1	2242.2	2259.6	2264.3	2265.4
15°	2965.5	2791.1	2495.7	2285.2	2208.5	2211.9	2242.2	2278.2	2310.8	2323.6	2325.9
17.5°	3084.2	2845.8	2434.1	2206.1	2166.6	2203.8	2259.6	2318.9	2366.6	2387.6	2393.4
20°	3216.7	2892.3	2346.9	2128.2	2127.1	2188.7	2270.1	2348.0	2408.5	2436.4	2441.1
22.5°	3357.5	2921.4	2239.9	2056.1	2086.3	2168.9	2262.0	2343.4	2407.3	2435.2	2441.1
25°	3499.3	2930.7	2122.4	1989.8	2044.5	2137.5	2222.4	2287.5	2348.0	2372.4	2377.1
27.5°	3631.9	2903.9	2010.8	1932.8	2006.1	2091.0	2148.0	2182.9	2224.7	2243.3	2246.8
30°	3766.8	2850.4	1916.6	1887.5	1963.1	2027.0	2052.6	2055.0	2071.2	2071.2	2073.6
32.5°	3902.9	2771.3	1834.0	1843.3	1909.6	1951.4	1954.9	1928.2	1908.4	1875.9	1874.7
35°	4059.9	2691.1	1766.5	1793.3	1846.8	1872.4	1861.9	1810.7	1763.0	1709.6	1707.2
37.5°	4205.3	2608.5	1709.6	1742.1	1775.8	1794.4	1770.0	1708.4	1668.8	1614.2	1606.0
40°	4325.0	2534.1	1654.9	1688.6	1704.9	1721.2	1681.6	1631.6	1637.4	1607.2	1606.0
42.5°	4394.8	2462.0	1603.7	1629.3	1639.8	1651.4	1616.5	1579.3	1610.7	1587.4	1588.6
45°	4446.0	2399.2	1557.2	1566.5	1592.1	1609.5	1577.0	1535.1	1542.1	1452.5	1431.6
47.5°	4504.1	2364.3	1513.0	1503.7	1549.1	1579.3	1529.3	1468.8	1427.0	1338.6	1330.4
50°	4565.8	2351.5	1466.5	1440.9	1495.6	1524.6	1466.5	1390.9	1336.2	1288.6	1283.9
52.5°	4586.7	2350.3	1408.3	1365.3	1420.0	1460.7	1411.8	1335.1	1270.0	1223.4	1221.1
55°	4669.3	2384.1	1333.9	1261.8	1313.0	1396.7	1360.7	1250.2	1197.8	1176.9	1174.6
57.5°	4765.8	2389.9	1216.5	1149.0	1219.9	1318.8	1273.4	1178.1	1121.1	1095.5	1093.2
60°	4726.3	2246.8	1090.9	1062.9	1140.9	1245.5	1203.7	1121.1	1054.8	1030.4	1028.1
62.5°	3601.7	1586.3	999.0	988.5	1056.0	1139.7	1131.6	1045.5	982.7	965.3	962.9
65°	2166.6	1114.1	910.6	909.4	957.1	1037.4	1047.8	978.0	911.8	887.3	887.3
67.5°	1071.1	852.4	810.6	804.8	835.0	892.0	936.2	879.2	823.4	800.1	796.6
70°	757.1	751.3	737.3	721.0	726.8	750.1	768.7	721.0	661.7	638.5	633.8
72.5°	654.7	655.9	646.6	633.8	629.2	612.9	596.6	561.7	525.7	501.2	503.6
75°	508.2	510.5	516.4	511.7	498.9	481.5	464.0	419.8	390.8	367.5	362.8
77.5°	296.6	308.2	326.8	322.1	324.5	300.0	293.1	250.0	223.3	207.0	203.5
80°	167.5	174.4	182.6	188.4	181.4	171.0	155.8	132.6	124.4	112.8	110.5
82.5°	101.2	108.2	111.6	116.3	114.0	100.0	88.4	73.3	66.3	60.5	59.3
85°	51.2	55.8	59.3	61.6	54.7	45.4	40.7	32.6	27.9	24.4	24.4
87.5°	12.8	14.0	16.3	14.0	12.8	5.8	4.7	1.2	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)