

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: P633606

Luminaire Tested: GWS-SA2F-722-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633606
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2F-722-U-T3R-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10476.5 lumens
Efficiency: N/A
Efficacy: 84.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

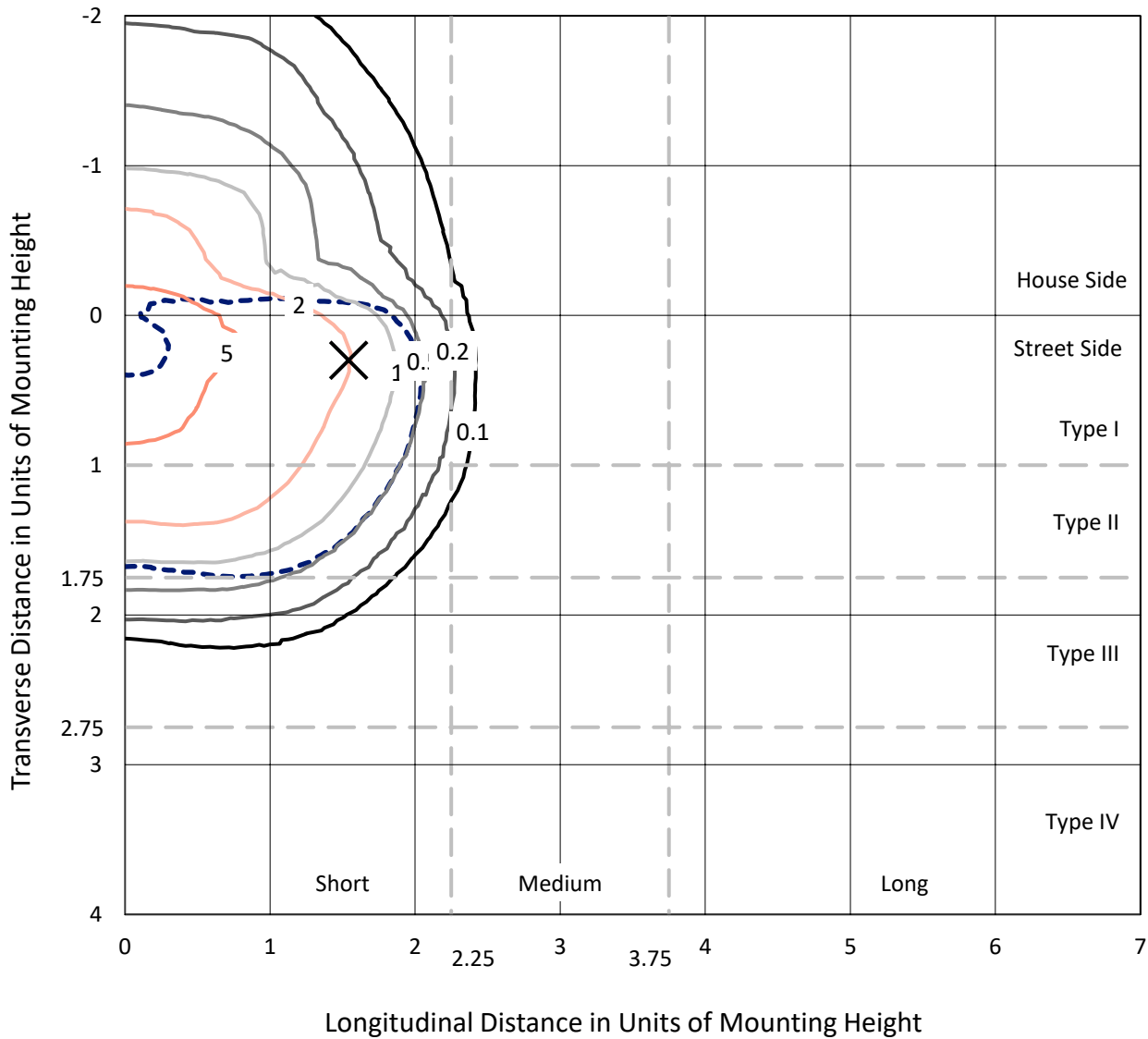
Input Watts (W): 124.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

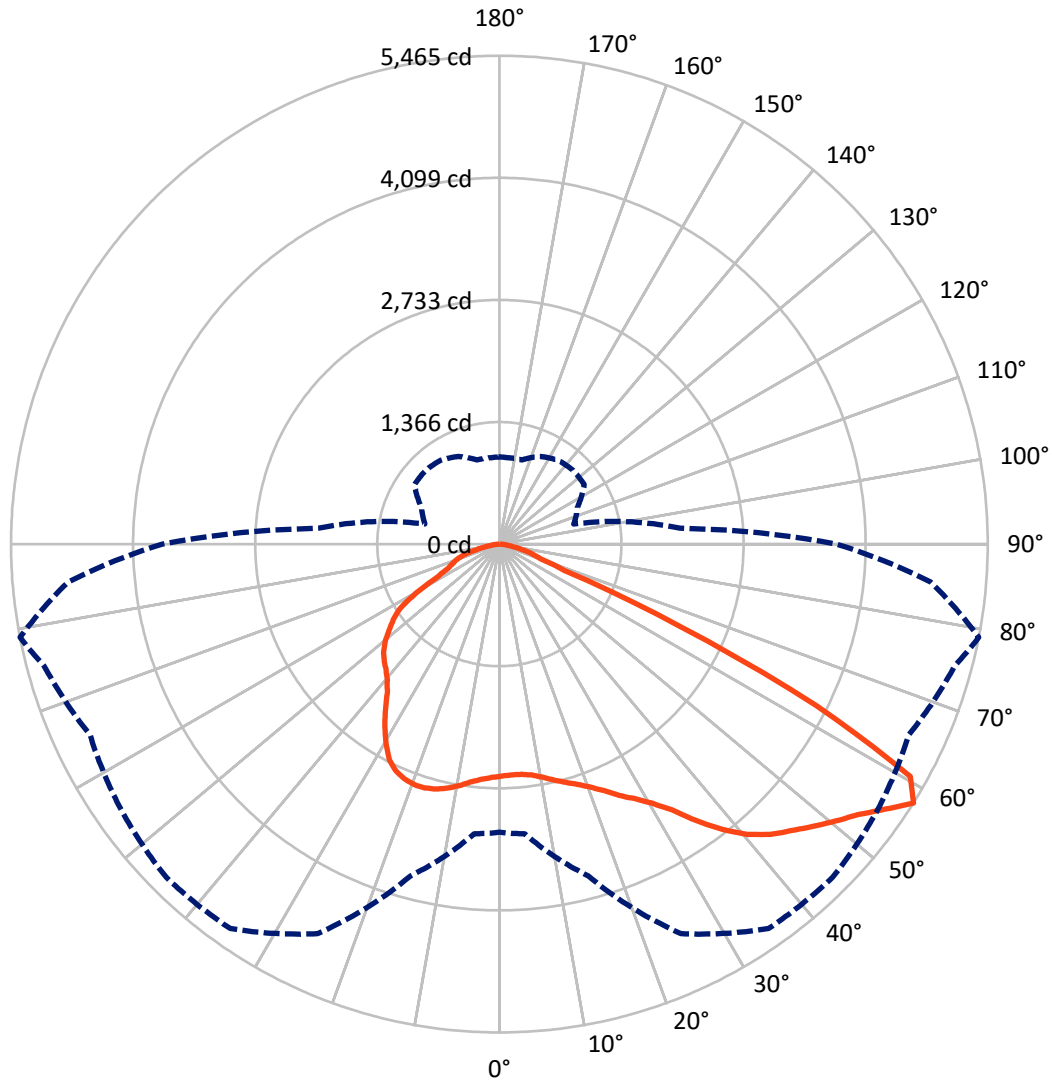
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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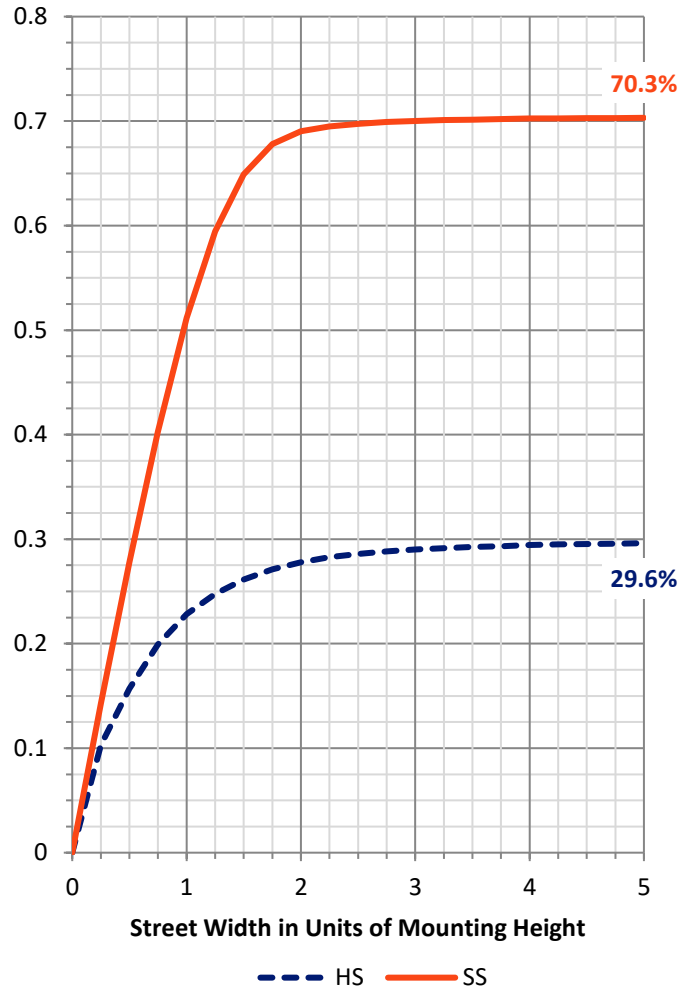
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3114.2	0.0	3114.2
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	7362.3	0.0	7362.3
	% Fixture	70.3	0.0	70.3
Total	Lumens	10476.5	0.0	10476.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.4	2.3
10°-20°	668.2	6.4
20°-30°	1132.6	10.8
30°-40°	1733.6	16.5
40°-50°	2311.6	22.1
50°-60°	2669.7	25.5
60°-70°	1387.3	13.2
70°-80°	294.9	2.8
80°-90°	38.2	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°	10476.5	100.0
0°-180°	10476.5	100.0

Coefficient of Utilization



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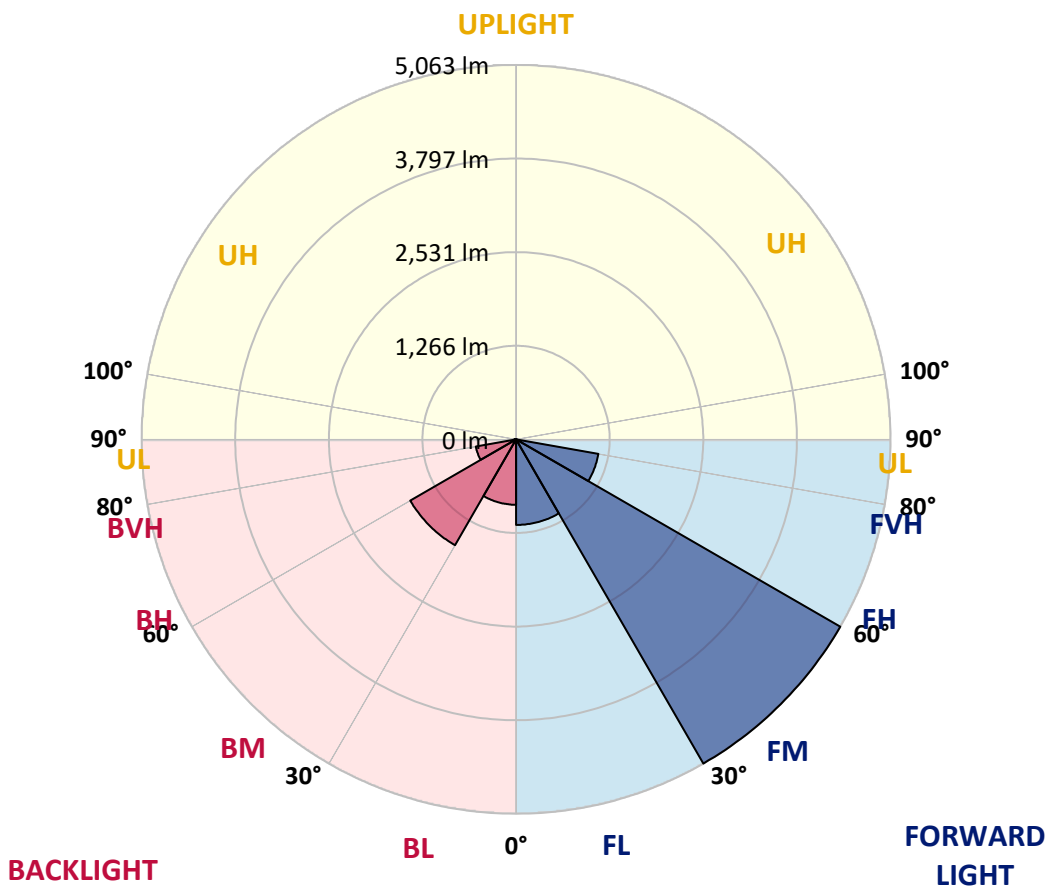
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1156.8	11.0			
FM (30°-60°)	5062.5	48.3			
FH (60°-80°)	1129.6	10.8			G1/1800
FVH (80°-90°)	13.3	0.1			G1/100
BL (0°-30°)	884.4	8.4	B2/1000		
BM (30°-60°)	1652.4	15.8	B2/2500		
BH (60°-80°)	552.5	5.3	B2/1000		G2/1000
BVH (80°-90°)	24.9	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3
2.5°	2478.1	2473.0	2474.7	2481.5	2507.2	2526.1	2545.8	2563.8	2580.9	2586.0	2590.3
5°	2389.9	2380.5	2383.0	2394.2	2424.1	2455.8	2491.0	2533.8	2574.9	2588.6	2606.6
7.5°	2327.4	2325.6	2329.9	2347.1	2378.7	2408.7	2454.1	2514.9	2586.0	2609.2	2640.9
10°	2244.3	2240.8	2258.0	2293.1	2345.3	2393.3	2447.3	2519.2	2618.6	2652.9	2701.7
12.5°	2178.3	2176.6	2194.6	2243.4	2310.2	2386.5	2461.0	2541.5	2662.3	2709.4	2769.3
15°	2216.9	2209.1	2210.0	2244.3	2304.2	2394.2	2495.2	2581.8	2706.0	2765.9	2843.0
17.5°	2329.1	2315.4	2305.1	2311.1	2345.3	2438.7	2547.5	2635.7	2756.5	2826.7	2921.0
20°	2484.1	2476.4	2448.1	2429.3	2437.0	2519.2	2629.7	2712.0	2822.5	2901.3	3002.3
22.5°	2692.3	2673.4	2634.9	2604.9	2581.8	2646.0	2747.9	2819.0	2914.1	2996.3	3101.7
25°	2950.1	2922.7	2861.9	2814.7	2765.1	2831.0	2921.8	2975.8	3040.0	3116.3	3216.5
27.5°	3213.1	3189.9	3122.3	3058.9	2997.2	3038.3	3146.2	3177.1	3170.2	3225.9	3311.6
30°	3493.2	3464.0	3399.8	3331.3	3251.6	3278.2	3375.0	3390.4	3317.6	3363.8	3422.1
32.5°	3788.7	3760.4	3704.7	3625.1	3535.1	3545.4	3572.0	3586.5	3517.2	3543.7	3588.2
35°	4089.4	4062.8	4006.3	3927.5	3861.5	3799.0	3732.2	3790.4	3750.1	3801.5	3798.1
37.5°	4364.3	4337.8	4302.6	4241.8	4128.8	4005.4	3851.2	3923.2	3985.7	4050.8	4039.7
40°	4550.2	4532.2	4540.8	4531.4	4385.7	4141.6	3909.5	3988.3	4158.7	4270.1	4264.1
42.5°	4710.4	4692.4	4742.1	4778.0	4606.7	4267.5	3937.7	4013.1	4269.2	4443.1	4434.6
45°	4781.5	4776.3	4858.6	4972.5	4808.9	4401.2	4010.5	4064.5	4353.2	4575.9	4543.3
47.5°	4696.7	4714.7	4876.6	5069.3	4976.8	4559.6	4159.6	4173.3	4462.8	4719.8	4628.1
50°	4527.9	4567.3	4785.8	5071.9	5099.3	4738.6	4366.0	4331.8	4610.2	4873.1	4672.7
52.5°	4282.1	4323.2	4679.5	5052.2	5169.5	4945.9	4641.0	4592.2	4796.0	5026.5	4680.4
55°	3717.6	3773.3	4436.3	5007.6	5238.0	5134.4	4951.1	4851.7	5035.9	5237.2	4756.6
57.5°	3225.1	3254.2	3843.5	4809.7	5251.7	5273.2	5172.1	5053.9	5274.0	5465.0	4842.3
60°	2366.8	2373.6	2903.8	3979.7	4831.2	5192.6	5154.1	4978.5	5160.9	5282.6	4450.0
62.5°	1337.1	1338.0	1761.1	2656.3	3608.8	4232.4	4256.4	4101.3	3948.0	3984.0	3097.4
65°	502.0	549.1	804.3	1305.4	2080.7	2498.7	2598.0	2634.0	2378.7	2220.3	1660.9
67.5°	335.8	346.9	469.4	671.6	926.0	1069.0	1195.8	1199.2	877.1	782.1	654.4
70°	256.1	267.3	369.2	480.5	469.4	433.4	468.6	455.7	471.1	484.0	497.7
72.5°	191.0	202.2	286.1	339.2	281.8	277.5	314.4	349.5	382.0	395.7	417.2
75°	126.8	135.3	192.7	181.6	155.9	184.2	229.6	264.7	283.5	299.8	316.1
77.5°	80.5	86.5	102.8	83.1	86.5	107.9	133.6	165.3	183.3	199.6	208.2
80°	36.8	36.0	35.1	39.4	48.8	63.4	80.5	99.4	113.1	119.9	125.1
82.5°	14.6	16.3	18.0	21.4	26.6	34.3	45.4	58.2	69.4	71.1	75.4
85°	6.0	6.9	7.7	9.4	12.0	15.4	18.8	26.6	33.4	36.0	38.5
87.5°	0.0	0.0	0.0	0.0	0.9	1.7	2.6	4.3	7.7	8.6	9.4
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°	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3	2596.3
2.5°	2613.5	2602.3	2621.2	2634.0	2646.0	2633.2	2628.9	2617.7	2616.0	2616.0	2622.0
5°	2637.4	2629.7	2649.4	2657.1	2656.3	2628.0	2610.9	2588.6	2577.5	2577.5	2579.2
7.5°	2680.3	2676.0	2687.1	2675.1	2647.7	2590.3	2533.8	2486.7	2455.0	2438.7	2443.8
10°	2751.4	2746.2	2736.8	2692.3	2613.5	2494.4	2378.7	2293.1	2241.7	2212.6	2214.3
12.5°	2820.7	2812.2	2778.8	2680.3	2518.4	2329.1	2177.4	2081.5	2025.0	1990.7	1983.0
15°	2897.0	2874.7	2802.8	2618.6	2363.3	2126.9	1968.4	1864.8	1804.0	1783.4	1782.6
17.5°	2969.8	2930.4	2800.2	2508.9	2177.4	1915.3	1756.0	1691.8	1681.5	1690.9	1693.5
20°	3043.5	2980.1	2771.9	2357.3	1956.4	1704.6	1622.4	1648.9	1687.5	1713.2	1719.2
22.5°	3119.7	3021.2	2707.7	2162.0	1723.5	1562.4	1596.7	1654.9	1702.9	1737.2	1740.6
25°	3205.4	3059.7	2611.7	1923.0	1536.7	1523.0	1590.7	1652.4	1703.8	1743.2	1750.0
27.5°	3254.2	3060.6	2477.3	1677.2	1451.1	1507.6	1576.1	1634.4	1685.8	1728.6	1736.3
30°	3302.1	3037.5	2264.0	1477.6	1426.2	1489.6	1551.3	1605.2	1654.1	1696.0	1705.5
32.5°	3369.8	3016.0	2018.1	1362.8	1411.7	1472.5	1523.0	1571.0	1608.7	1627.5	1632.7
35°	3453.8	2988.6	1756.9	1313.1	1402.2	1458.8	1503.3	1529.0	1480.2	1469.9	1481.0
37.5°	3571.1	2962.9	1496.5	1291.7	1396.2	1453.6	1493.0	1427.1	1367.1	1343.1	1351.7
40°	3697.9	2948.4	1320.0	1274.6	1398.8	1458.8	1450.2	1352.6	1266.0	1215.5	1213.8
42.5°	3805.8	2926.1	1206.9	1263.5	1405.7	1478.5	1392.0	1286.6	1158.1	1128.1	1129.0
45°	3878.6	2869.6	1147.0	1251.5	1411.7	1482.8	1364.5	1195.8	1104.1	1085.3	1084.4
47.5°	3908.6	2766.8	1108.4	1232.6	1410.8	1447.6	1308.9	1158.1	1066.5	1061.3	1064.7
50°	3888.9	2598.0	1069.0	1195.8	1390.2	1410.8	1244.6	1124.7	1040.8	1069.0	1089.6
52.5°	3816.1	2379.6	1021.9	1145.3	1353.4	1368.8	1212.1	1104.1	1021.9	1059.6	1075.9
55°	3797.3	2202.3	961.9	1079.3	1298.6	1294.3	1177.8	1093.9	1009.1	994.5	997.1
57.5°	3772.4	2029.3	862.6	961.1	1159.8	1166.7	1145.3	1081.9	975.7	971.4	975.7
60°	3277.3	1555.6	769.2	829.2	952.5	989.4	1108.4	1059.6	921.7	903.7	902.8
62.5°	2140.6	942.2	684.4	723.0	776.1	818.9	1010.8	995.4	862.6	851.4	859.2
65°	1151.3	671.6	622.7	645.9	675.0	707.5	837.7	886.6	779.5	740.1	740.9
67.5°	588.5	571.3	576.5	592.8	615.0	631.3	675.8	718.7	664.7	631.3	630.4
70°	503.7	517.4	525.1	534.5	549.1	546.5	550.8	558.5	554.2	537.9	537.1
72.5°	429.2	450.6	452.3	454.0	459.1	447.1	439.4	426.6	427.4	430.0	430.9
75°	326.4	346.9	352.1	349.5	354.6	339.2	328.9	316.1	300.7	298.1	299.8
77.5°	212.4	228.7	236.4	234.7	237.3	225.3	220.1	206.4	188.4	181.6	181.6
80°	128.5	137.9	143.9	145.6	148.2	139.6	131.1	119.1	111.4	103.6	103.6
82.5°	77.9	83.9	88.2	88.2	90.8	81.4	74.5	66.0	62.5	55.7	55.7
85°	39.4	43.7	45.4	44.5	42.8	35.1	32.6	28.3	26.6	23.1	23.1
87.5°	9.4	12.0	12.0	8.6	8.6	4.3	2.6	0.9	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)