

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: P632836

Luminaire Tested: GWS-SA2D-740-U-T3R-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P632836
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-SA2D-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10236.8 lumens
Efficiency: N/A
Efficacy: 124.7 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): 82.1
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

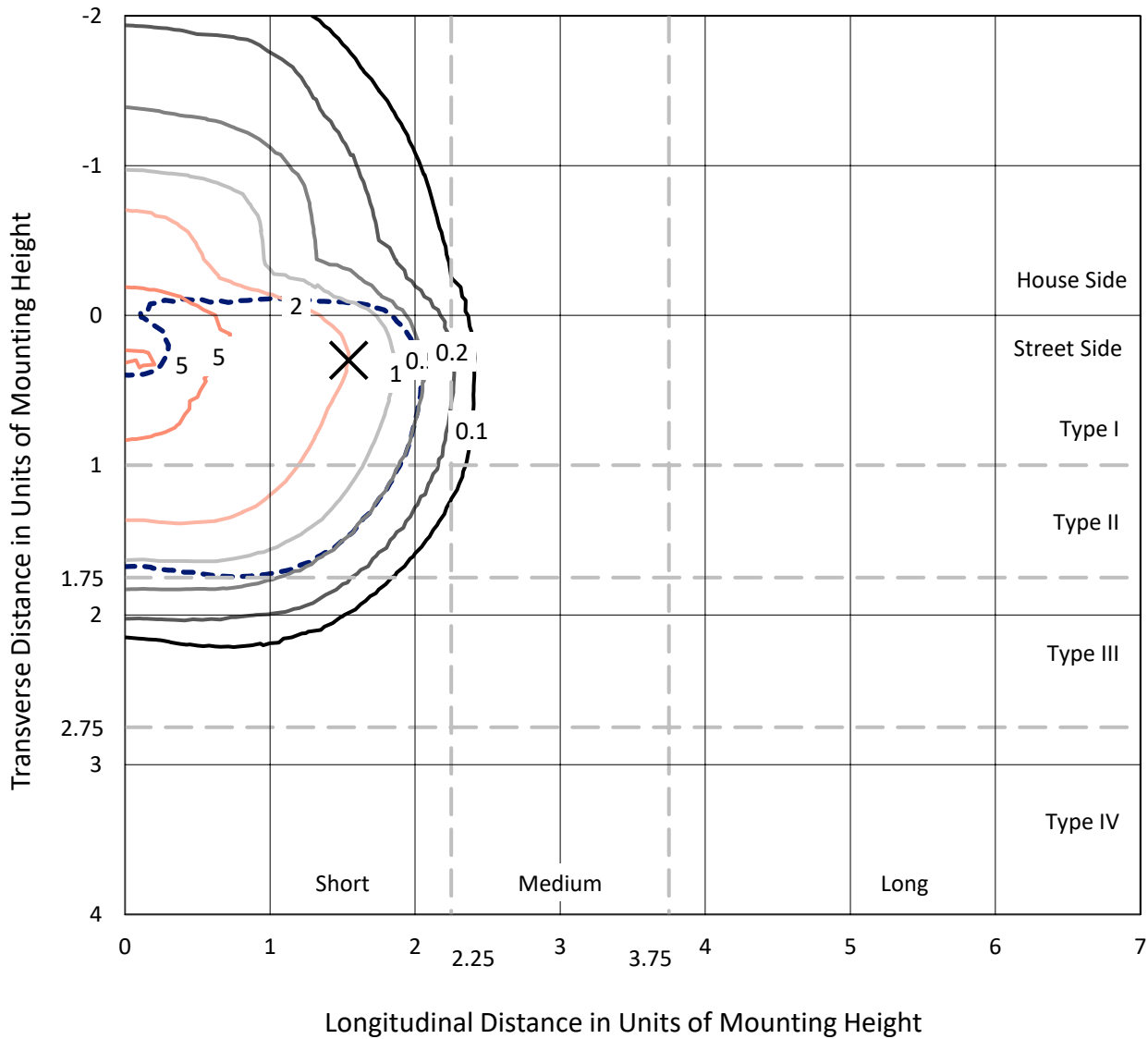


REPORT NUMBER: P632836

CATALOG NUMBER: GWS-SA2D-740-U-T3R-W-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

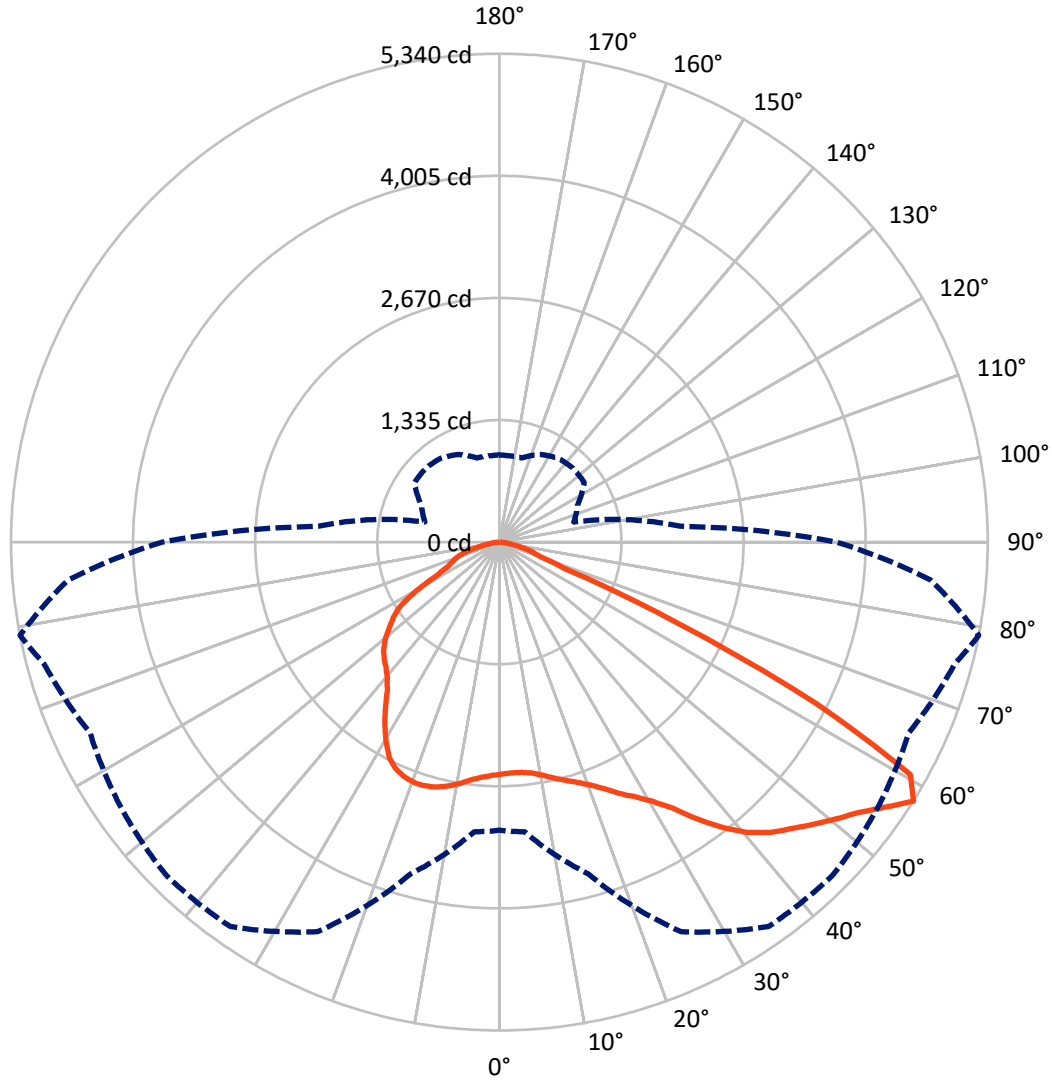
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Short - N/A

REPORT NUMBER: P632836
CATALOG NUMBER: GWS-SA2D-740-U-T3R-W-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P632836

CATALOG NUMBER: GWS-SA2D-740-U-T3R-W-GRSWH

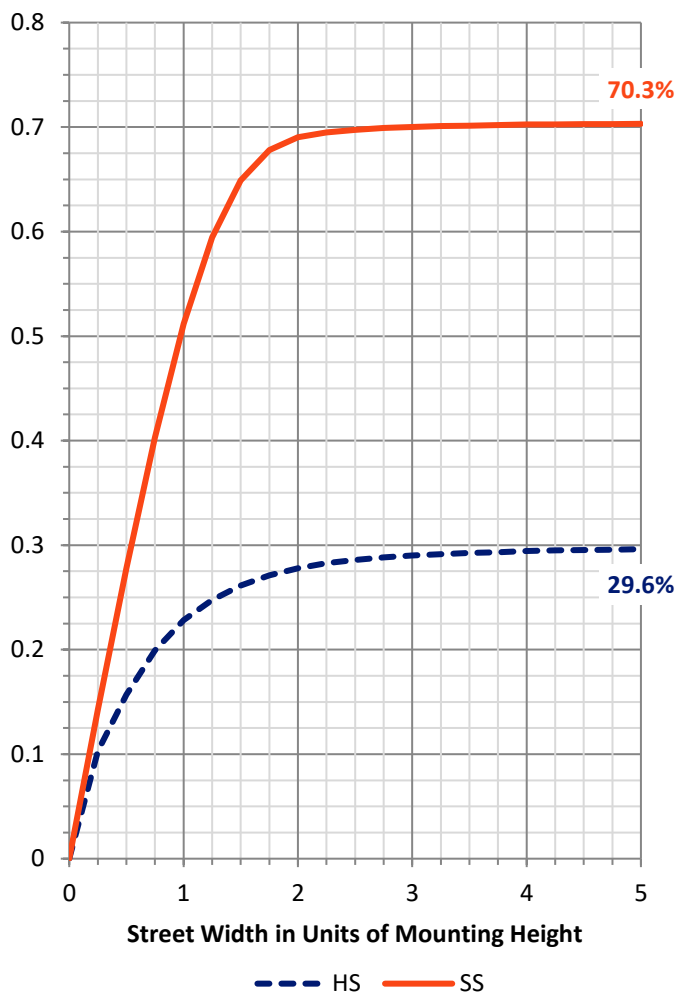
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3042.9	0.0	3042.9
	% Fixture	29.7	0.0	29.7
Street Side	Lumens	7193.9	0.0	7193.9
	% Fixture	70.3	0.0	70.3
Total	Lumens	10236.8	0.0	10236.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	234.9	2.3
10°-20°	652.9	6.4
20°-30°	1106.7	10.8
30°-40°	1693.9	16.5
40°-50°	2258.7	22.1
50°-60°	2608.6	25.5
60°-70°	1355.5	13.2
70°-80°	288.1	2.8
80°-90°	37.3	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°	10236.8	100.0
0°-180°	10236.8	100.0

Coefficient of Utilization



REPORT NUMBER: P632836

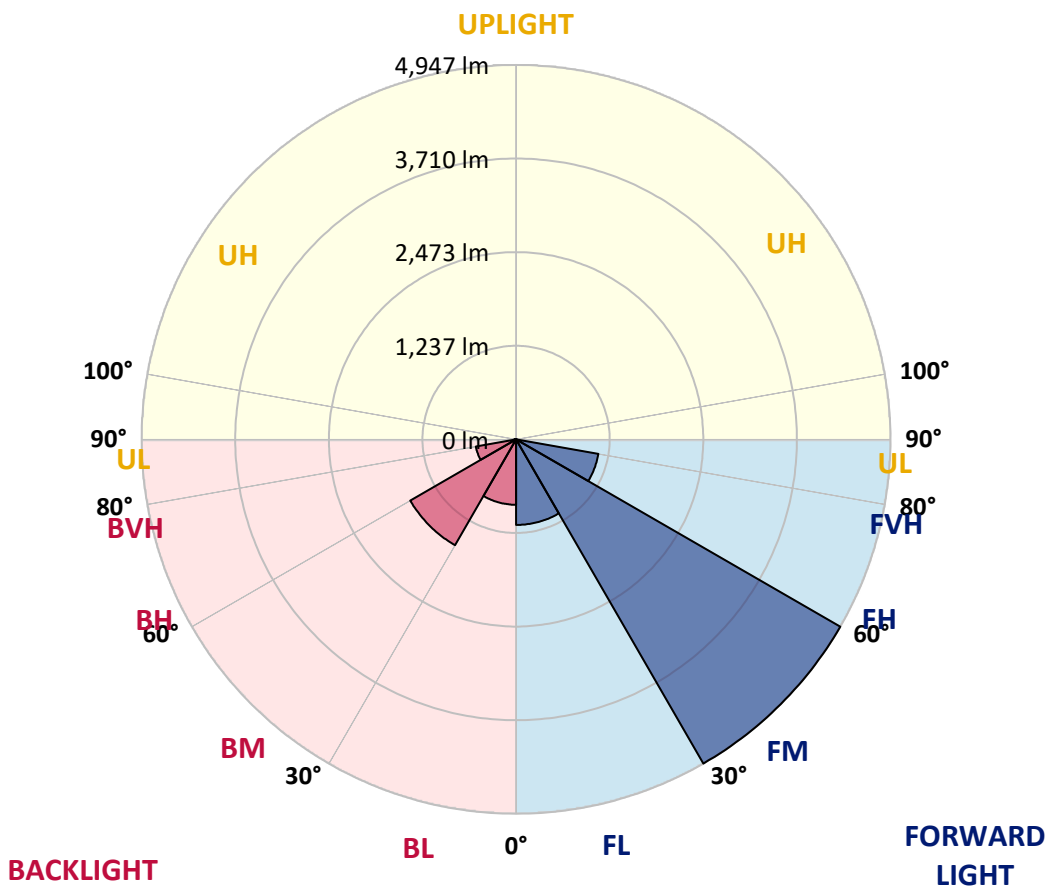
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1130.4	11.0			
FM (30°-60°)	4946.7	48.3			
FH (60°-80°)	1103.8	10.8			G1/1800
FVH (80°-90°)	13.0	0.1			G1/100
BL (0°-30°)	864.2	8.4	B2/1000		
BM (30°-60°)	1614.6	15.8	B2/2500		
BH (60°-80°)	539.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	24.3	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





REPORT NUMBER: P632836

CATALOG NUMBER: GWS-SA2D-740-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	2536.9	2536.9	2536.9	2536.9	2536.9	2536.9	2536.9	2536.9	2536.9	2536.9	2536.9
2.5°	2421.4	2416.4	2418.1	2424.8	2449.9	2468.3	2487.5	2505.1	2521.8	2526.9	2531.1
5°	2335.2	2326.0	2328.5	2339.4	2368.7	2399.6	2434.0	2475.8	2516.0	2529.4	2547.0
7.5°	2274.1	2272.4	2276.6	2293.4	2324.3	2353.6	2398.0	2457.4	2526.9	2549.5	2580.4
10°	2192.9	2189.6	2206.3	2240.6	2291.7	2338.5	2391.3	2461.6	2558.7	2592.2	2639.9
12.5°	2128.5	2126.8	2144.4	2192.1	2257.4	2331.9	2404.7	2483.3	2601.4	2647.4	2706.0
15°	2166.1	2158.6	2159.4	2192.9	2251.5	2339.4	2438.2	2522.7	2644.1	2702.6	2778.0
17.5°	2275.8	2262.4	2252.3	2258.2	2291.7	2382.9	2489.2	2575.4	2693.4	2762.1	2854.1
20°	2427.3	2419.7	2392.1	2373.7	2381.2	2461.6	2569.6	2649.9	2757.9	2834.9	2933.6
22.5°	2630.7	2612.2	2574.6	2545.3	2522.7	2585.5	2685.1	2754.5	2847.4	2927.8	3030.7
25°	2882.6	2855.8	2796.4	2750.3	2701.8	2766.3	2855.0	2907.7	2970.5	3045.0	3142.9
27.5°	3139.5	3116.9	3050.8	2988.9	2928.6	2968.8	3074.3	3104.4	3097.7	3152.1	3235.8
30°	3413.2	3384.8	3322.0	3255.1	3177.2	3203.2	3297.7	3312.8	3241.7	3286.9	3343.8
32.5°	3702.0	3674.4	3620.0	3542.1	3454.3	3464.3	3490.2	3504.5	3436.7	3462.6	3506.1
35°	3995.8	3969.8	3914.6	3837.6	3773.1	3712.0	3646.8	3703.7	3664.3	3714.6	3711.2
37.5°	4264.5	4238.5	4204.2	4144.8	4034.3	3913.8	3763.1	3833.4	3894.5	3958.1	3947.2
40°	4446.1	4428.5	4436.9	4427.7	4285.4	4046.8	3820.0	3897.0	4063.6	4172.4	4166.5
42.5°	4602.6	4585.0	4633.6	4668.7	4501.3	4169.9	3847.6	3921.3	4171.6	4341.5	4333.1
45°	4672.1	4667.1	4747.4	4858.7	4698.9	4300.5	3918.8	3971.5	4253.6	4471.2	4439.4
47.5°	4589.2	4606.8	4765.0	4953.3	4862.9	4455.3	4064.4	4077.8	4360.7	4611.8	4522.3
50°	4424.3	4462.8	4676.3	4955.8	4982.6	4630.2	4266.1	4232.7	4504.7	4761.6	4565.8
52.5°	4184.1	4224.3	4572.5	4936.6	5051.2	4832.8	4534.8	4487.1	4686.3	4911.5	4573.3
55°	3632.5	3686.9	4334.8	4893.0	5118.2	5016.9	4837.8	4740.7	4920.7	5117.4	4647.8
57.5°	3151.3	3179.7	3755.6	4699.7	5131.6	5152.5	5053.7	4938.2	5153.3	5340.0	4731.5
60°	2312.6	2319.3	2837.4	3888.7	4720.6	5073.8	5036.2	4864.6	5042.9	5161.7	4348.2
62.5°	1306.5	1307.4	1720.9	2595.5	3526.2	4135.6	4159.0	4007.5	3857.7	3892.8	3026.6
65°	490.5	536.5	785.9	1275.6	2033.0	2441.5	2538.6	2573.7	2324.3	2169.5	1622.9
67.5°	328.1	339.0	458.7	656.2	904.8	1044.6	1168.4	1171.8	857.1	764.2	639.5
70°	250.3	261.1	360.7	469.6	458.7	423.5	457.8	445.3	460.3	472.9	486.3
72.5°	186.6	197.5	279.6	331.4	275.4	271.2	307.2	341.5	373.3	386.7	407.6
75°	123.9	132.2	188.3	177.4	152.3	180.0	224.3	258.6	277.0	292.9	308.8
77.5°	78.7	84.5	100.4	81.2	84.5	105.5	130.6	161.5	179.1	195.0	203.4
80°	36.0	35.2	34.3	38.5	47.7	61.9	78.7	97.1	110.5	117.2	122.2
82.5°	14.2	15.9	17.6	20.9	25.9	33.5	44.4	56.9	67.8	69.5	73.7
85°	5.9	6.7	7.5	9.2	11.7	15.1	18.4	25.9	32.6	35.2	37.7
87.5°	0.0	0.0	0.0	0.0	0.8	1.7	2.5	4.2	7.5	8.4	9.2
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: P632836

CATALOG NUMBER: GWS-SA2D-740-U-T3R-W-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2536.9	2536.9	2536.9	2536.9	2536.9	2536.9	2536.9	2536.9	2536.9	2536.9	2536.9
2.5°	2553.7	2542.8	2561.2	2573.7	2585.5	2572.9	2568.7	2557.8	2556.2	2556.2	2562.0
5°	2577.1	2569.6	2588.8	2596.3	2595.5	2567.9	2551.1	2529.4	2518.5	2518.5	2520.2
7.5°	2618.9	2614.8	2625.6	2613.9	2587.1	2531.1	2475.8	2429.8	2398.8	2382.9	2387.9
10°	2688.4	2683.4	2674.2	2630.7	2553.7	2437.3	2324.3	2240.6	2190.4	2161.9	2163.6
12.5°	2756.2	2747.8	2715.2	2618.9	2460.7	2275.8	2127.6	2033.9	1978.6	1945.2	1937.6
15°	2830.7	2808.9	2738.6	2558.7	2309.3	2078.2	1923.4	1822.1	1762.7	1742.6	1741.8
17.5°	2901.8	2863.3	2736.1	2451.5	2127.6	1871.5	1715.8	1653.1	1643.0	1652.2	1654.7
20°	2973.8	2911.9	2708.5	2303.4	1911.7	1665.6	1585.3	1611.2	1648.9	1674.0	1679.8
22.5°	3048.3	2952.1	2645.7	2112.6	1684.0	1526.7	1560.1	1617.1	1663.9	1697.4	1700.8
25°	3132.0	2989.7	2552.0	1879.0	1501.6	1488.2	1554.3	1614.6	1664.8	1703.3	1710.0
27.5°	3179.7	2990.6	2420.6	1638.8	1417.9	1473.1	1540.1	1597.0	1647.2	1689.0	1696.6
30°	3226.6	2968.0	2212.2	1443.8	1393.6	1455.5	1515.8	1568.5	1616.2	1657.2	1666.4
32.5°	3292.7	2947.0	1971.9	1331.7	1379.4	1438.8	1488.2	1535.0	1571.9	1590.3	1595.3
35°	3374.7	2920.3	1716.7	1283.1	1370.2	1425.4	1468.9	1494.0	1446.3	1436.3	1447.2
37.5°	3489.4	2895.1	1462.2	1262.2	1364.3	1420.4	1458.9	1394.4	1335.8	1312.4	1320.8
40°	3613.3	2880.9	1289.8	1245.4	1366.8	1425.4	1417.0	1321.6	1237.1	1187.7	1186.0
42.5°	3718.7	2859.2	1179.3	1234.6	1373.5	1444.6	1360.1	1257.2	1131.6	1102.3	1103.2
45°	3789.9	2803.9	1120.7	1222.8	1379.4	1448.8	1333.3	1168.4	1078.9	1060.5	1059.6
47.5°	3819.2	2703.5	1083.1	1204.4	1378.5	1414.5	1278.9	1131.6	1042.1	1037.0	1040.4
50°	3799.9	2538.6	1044.6	1168.4	1358.4	1378.5	1216.1	1099.0	1016.9	1044.6	1064.7
52.5°	3728.8	2325.2	998.5	1119.1	1322.4	1337.5	1184.3	1078.9	998.5	1035.4	1051.3
55°	3710.4	2151.9	939.9	1054.6	1268.9	1264.7	1150.9	1068.8	986.0	971.7	974.3
57.5°	3686.1	1982.8	842.8	939.1	1133.3	1140.0	1119.1	1057.1	953.3	949.1	953.3
60°	3202.3	1520.0	751.6	810.2	930.7	966.7	1083.1	1035.4	900.6	883.0	882.2
62.5°	2091.6	920.7	668.8	706.4	758.3	800.2	987.6	972.6	842.8	832.0	839.5
65°	1124.9	656.2	608.5	631.1	659.5	691.4	818.6	866.3	761.7	723.2	724.0
67.5°	575.0	558.3	563.3	579.2	601.0	616.9	660.4	702.2	649.5	616.9	616.0
70°	492.1	505.5	513.1	522.3	536.5	534.0	538.2	545.7	541.5	525.6	524.8
72.5°	419.3	440.3	441.9	443.6	448.6	436.9	429.4	416.8	417.7	420.2	421.0
75°	318.9	339.0	344.0	341.5	346.5	331.4	321.4	308.8	293.8	291.3	292.9
77.5°	207.6	223.5	231.0	229.3	231.8	220.1	215.1	201.7	184.1	177.4	177.4
80°	125.5	134.8	140.6	142.3	144.8	136.4	128.1	116.3	108.8	101.3	101.3
82.5°	76.2	82.0	86.2	86.2	88.7	79.5	72.8	64.4	61.1	54.4	54.4
85°	38.5	42.7	44.4	43.5	41.8	34.3	31.8	27.6	25.9	22.6	22.6
87.5°	9.2	11.7	11.7	8.4	8.4	4.2	2.5	0.8	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)