

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: P637680

Luminaire Tested: GWS-SA4D-730-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637680  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-730-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (64) 3000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

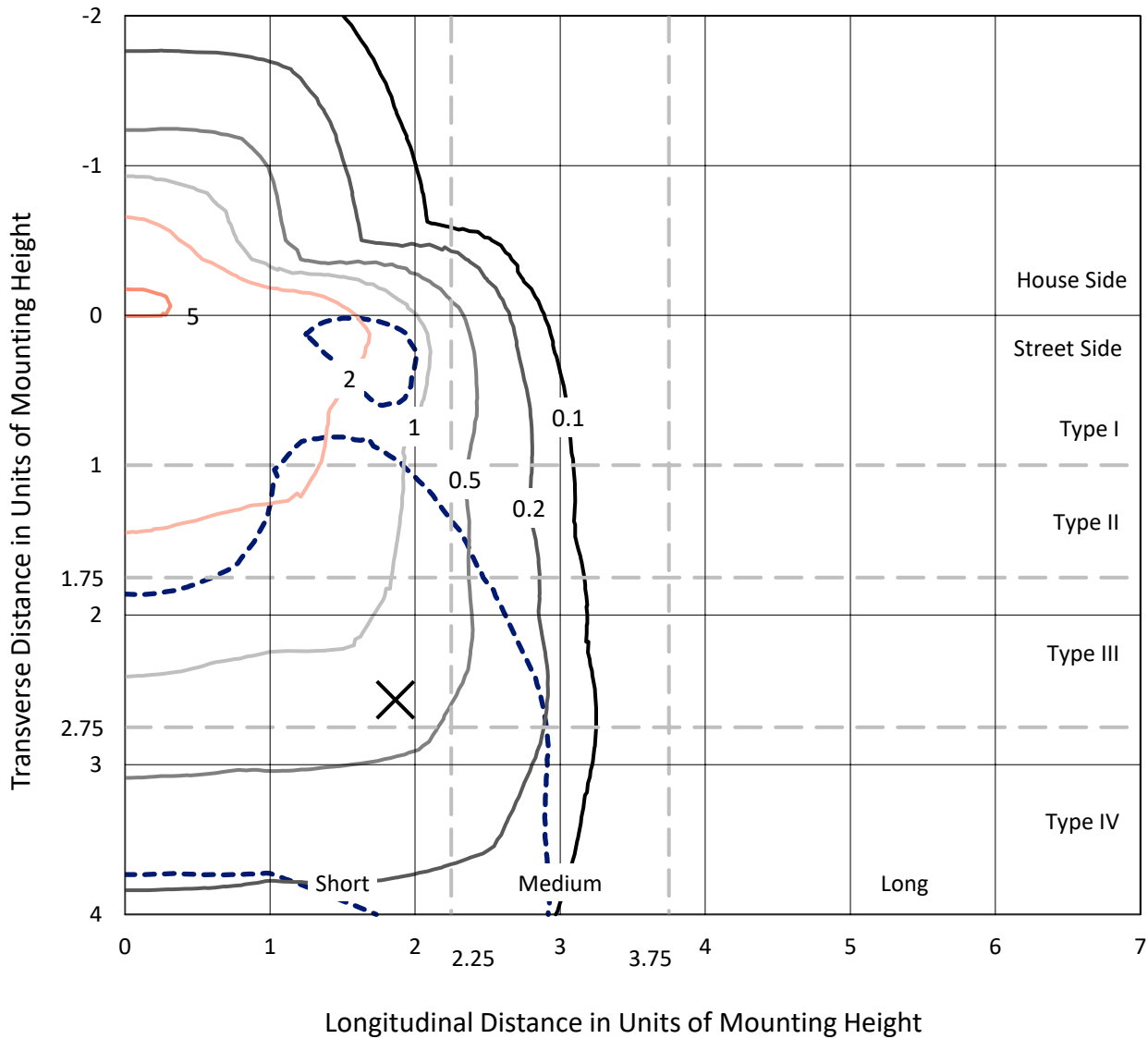
Lumens per Lamp: N/A  
Luminaire Lumens: 21539.9 lumens  
Efficiency: N/A  
Efficacy: 132.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
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: P637680  
 CATALOG NUMBER: GWS-SA4D-730-U-T4FT-W

### Iso-Footcandle Lines of Horizontal Illumination

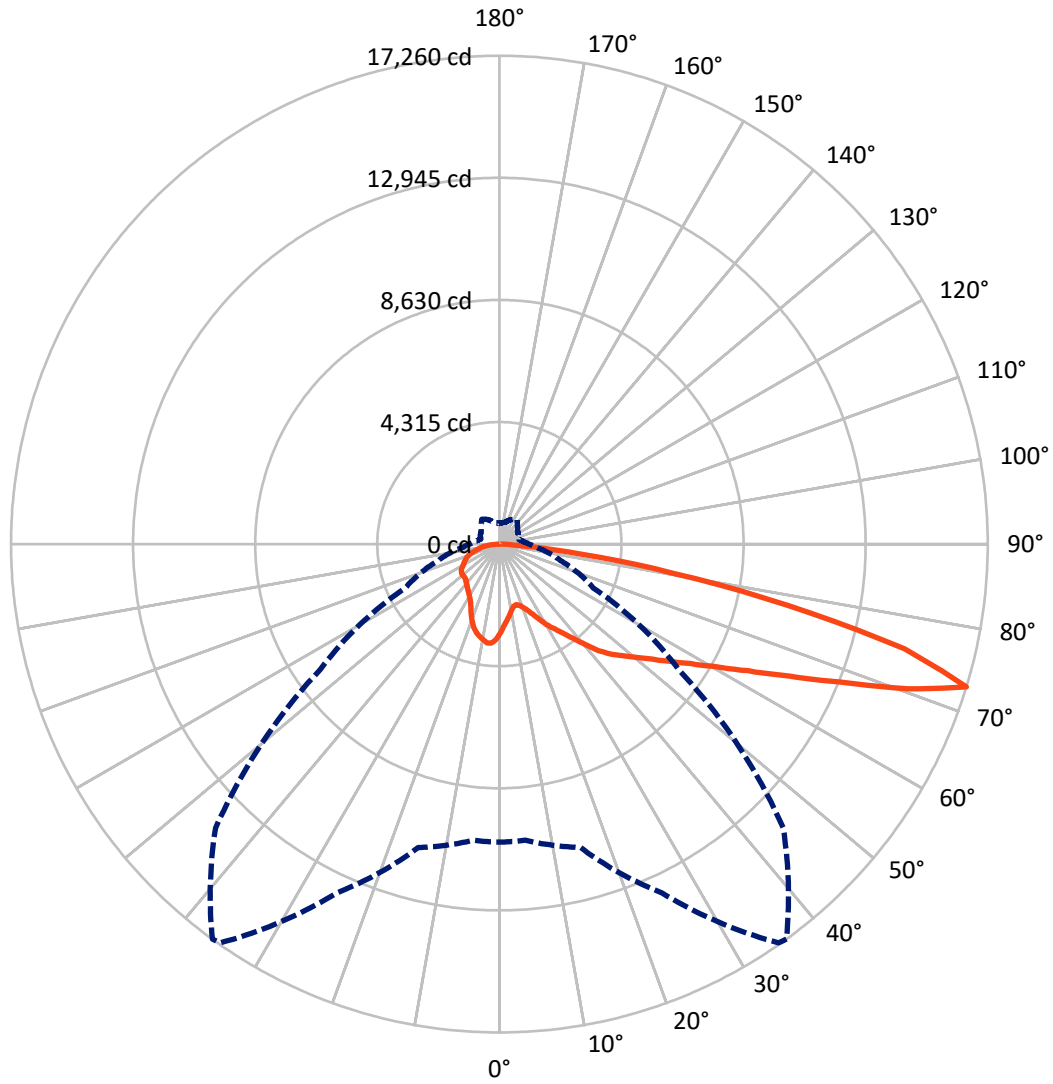
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - N/A

REPORT NUMBER: P637680  
CATALOG NUMBER: GWS-SA4D-730-U-T4FT-W

### Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P637680

CATALOG NUMBER: GWS-SA4D-730-U-T4FT-W

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4965.9	0.0	4965.9
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	16574.0	0.0	16574.0
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	21539.9	0.0	21539.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	294.7	1.4
10°-20°	831.4	3.9
20°-30°	1376.9	6.4
30°-40°	2062.0	9.6
40°-50°	3008.2	14.0
50°-60°	4281.6	19.9
60°-70°	5409.5	25.1
70°-80°	3854.8	17.9
80°-90°	420.8	2.0
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°	21539.9	100.0
0°-180°	21539.9	100.0

**Coefficient of Utilization**



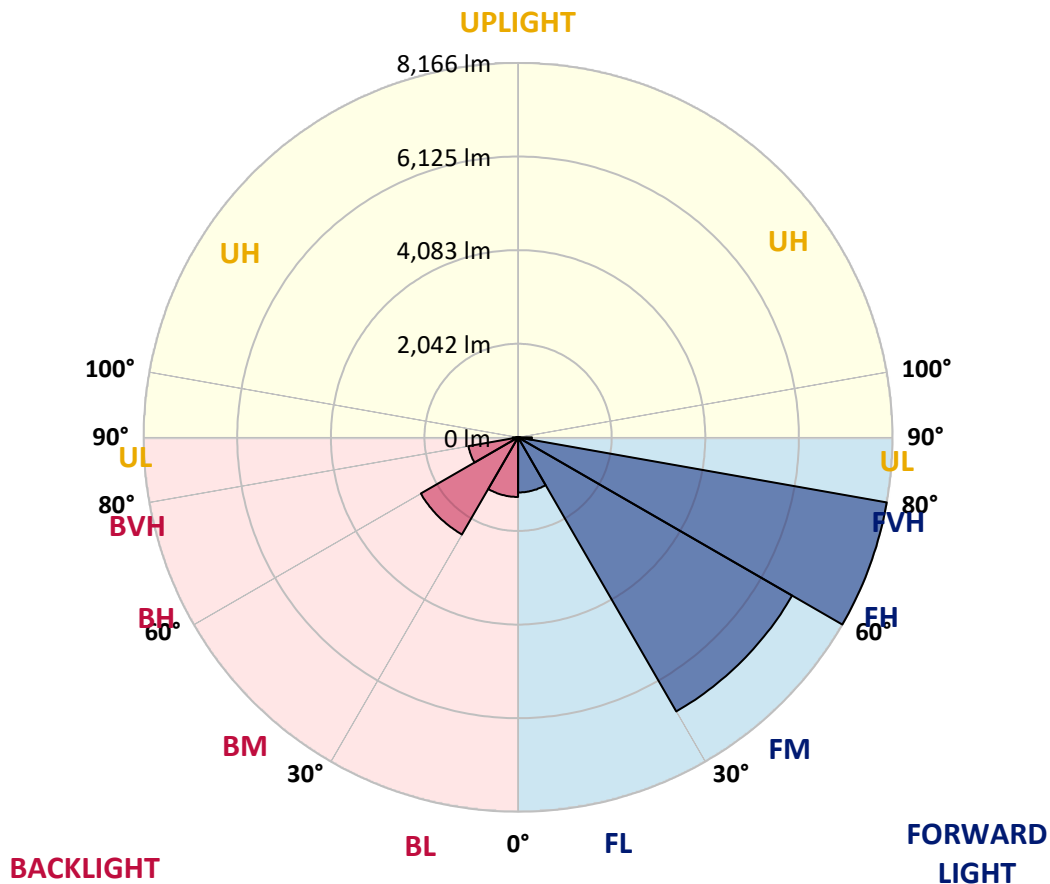
REPORT NUMBER: P637680

CATALOG NUMBER: GWS-SA4D-730-U-T4FT-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1202.5	5.6			
FM (30°-60°)	6903.0	32.0			
FH (60°-80°)	8166.5	37.9			G4/12000
FVH (80°-90°)	302.0	1.4			G3/500
BL (0°-30°)	1300.4	6.0	B3/2500		
BM (30°-60°)	2448.9	11.4	B2/2500		
BH (60°-80°)	1097.8	5.1	B3/2500		G3/2500
BVH (80°-90°)	118.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type IV Short





REPORT NUMBER: P637680

CATALOG NUMBER: GWS-SA4D-730-U-T4FT-W

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5
2.5°	2875.9	2871.1	2861.5	2890.3	2919.1	2915.9	2955.8	2994.2	3035.8	3078.9	3136.5
5°	2645.7	2642.5	2634.5	2677.7	2720.8	2719.2	2784.8	2847.1	2931.9	3024.6	3139.7
7.5°	2415.5	2407.5	2418.7	2473.1	2533.8	2540.2	2629.7	2732.0	2855.1	2994.2	3157.3
10°	2212.5	2210.9	2215.7	2276.4	2367.5	2373.9	2489.0	2631.3	2794.4	2979.8	3197.2
12.5°	2159.7	2156.5	2143.7	2174.1	2242.9	2252.4	2378.7	2553.0	2752.8	2987.8	3251.6
15°	2246.0	2238.1	2193.3	2178.9	2212.5	2220.5	2327.6	2506.6	2728.8	3002.2	3320.3
17.5°	2394.7	2389.9	2305.2	2246.0	2268.4	2274.8	2354.8	2498.6	2722.4	3031.0	3405.0
20°	2612.1	2591.3	2458.7	2369.1	2369.1	2378.7	2426.7	2533.8	2730.4	3066.1	3501.0
22.5°	2899.9	2858.3	2671.3	2549.8	2517.8	2530.6	2551.4	2621.7	2764.0	3125.3	3620.9
25°	3222.8	3184.4	2962.2	2791.2	2746.4	2751.2	2733.6	2746.4	2837.5	3206.8	3769.5
27.5°	3566.5	3540.9	3304.3	3086.9	3016.6	3016.6	2954.2	2923.9	2939.8	3299.5	3935.8
30°	3873.4	3838.3	3638.4	3400.2	3307.5	3307.5	3189.2	3123.7	3085.3	3413.0	4158.0
32.5°	4034.9	4014.1	3881.4	3699.2	3585.7	3568.1	3465.8	3389.1	3299.5	3580.9	4458.5
35°	4245.9	4241.1	4161.2	4018.9	3875.0	3849.5	3779.1	3718.4	3563.3	3790.3	4858.2
37.5°	4511.3	4503.3	4490.5	4405.8	4233.1	4228.3	4166.0	4092.4	3891.0	4092.4	5342.6
40°	4808.6	4794.2	4778.2	4776.6	4672.7	4655.2	4650.4	4567.2	4285.9	4456.9	5847.7
42.5°	5217.9	5168.3	5018.0	5085.2	5161.9	5145.9	5206.7	5082.0	4778.2	4890.2	6325.7
45°	5721.4	5599.9	5302.6	5321.8	5515.2	5547.2	5758.2	5727.8	5320.2	5390.5	6829.3
47.5°	6023.6	5918.1	5641.5	5625.5	5866.9	5906.9	6365.7	6423.2	5903.7	5993.2	7451.1
50°	6271.4	6197.8	5970.8	5993.2	6249.0	6288.9	6968.3	7091.4	6453.6	6610.3	8173.7
52.5°	6570.3	6464.8	6288.9	6394.4	6707.8	6755.7	7638.2	7770.8	6949.2	7288.1	8921.8
55°	6738.1	6695.0	6698.2	6859.6	7252.9	7318.4	8340.0	8317.6	7403.2	7868.4	9484.6
57.5°	7125.0	7109.0	7256.1	7316.8	7889.1	7973.9	9041.7	8849.9	7815.6	8317.6	9754.7
60°	7807.6	7767.7	7895.5	7988.3	8675.7	8795.6	9825.1	9371.1	8095.4	8651.7	9663.6
62.5°	8766.8	8717.2	8722.0	8869.1	9729.1	9855.4	10696.3	9805.9	8181.7	8702.8	9086.5
65°	9959.3	9887.4	9805.9	10005.7	11127.9	11233.4	11644.3	10122.4	7975.5	8210.5	7881.2
67.5°	11217.5	11158.3	11062.4	11481.2	12939.2	13003.1	12707.4	10095.2	7321.6	6893.2	5528.0
70°	11291.0	11305.4	11759.4	13274.9	15303.5	15319.5	13712.9	9548.5	5929.2	4468.1	2754.4
72.5°	10533.2	10509.3	11100.8	13602.6	17205.8	17260.2	14187.7	7735.7	3664.0	2228.5	1291.7
75°	8555.8	8597.3	9219.2	11901.7	14747.2	14795.1	11566.0	4560.8	1740.9	1090.3	826.5
77.5°	3683.2	3915.0	5141.1	8384.7	10562.0	10413.4	5961.2	1848.0	928.8	776.9	633.0
80°	1063.1	1154.2	1832.0	3986.9	6328.9	6217.0	2359.5	692.2	647.4	583.5	454.0
82.5°	343.7	380.5	671.4	1587.4	2835.9	2832.7	895.2	409.2	423.6	396.5	292.5
85°	95.9	110.3	206.2	481.2	877.6	860.1	259.0	193.4	225.4	228.6	145.5
87.5°	0.0	0.0	1.6	3.2	3.2	3.2	6.4	28.8	65.5	83.1	59.1
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: P637680

CATALOG NUMBER: GWS-SA4D-730-U-T4FT-W

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5	3152.5
2.5°	3171.6	3166.8	3232.4	3283.5	3331.5	3363.5	3373.1	3379.5	3392.3	3398.6	3392.3
5°	3194.0	3218.0	3326.7	3406.6	3470.6	3509.0	3510.5	3507.4	3516.9	3509.0	3504.2
7.5°	3242.0	3288.3	3425.8	3510.5	3552.1	3553.7	3515.3	3470.6	3448.2	3429.0	3422.6
10°	3305.9	3374.7	3524.9	3580.9	3568.1	3509.0	3424.2	3353.9	3313.9	3285.1	3278.8
12.5°	3393.9	3470.6	3612.9	3611.3	3531.3	3425.8	3326.7	3242.0	3184.4	3150.9	3139.7
15°	3477.0	3574.5	3676.8	3601.7	3475.4	3347.5	3219.6	3106.1	3029.4	2976.6	2967.0
17.5°	3579.3	3683.2	3723.2	3571.3	3405.0	3240.4	3069.3	2920.7	2816.8	2754.4	2749.6
20°	3697.6	3790.3	3745.5	3518.5	3313.9	3098.1	2866.3	2700.1	2588.2	2527.4	2532.2
22.5°	3835.1	3902.2	3751.9	3446.6	3187.6	2896.7	2637.7	2477.8	2402.7	2370.7	2372.3
25°	3982.1	4025.3	3740.7	3349.1	2994.2	2650.5	2402.7	2329.2	2322.8	2314.8	2318.0
27.5°	4156.4	4146.8	3707.2	3211.6	2733.6	2364.3	2238.1	2257.2	2282.8	2279.6	2282.8
30°	4389.8	4298.7	3664.0	3021.4	2423.5	2124.6	2140.5	2194.9	2228.5	2231.7	2241.3
32.5°	4656.8	4466.5	3595.3	2762.4	2127.8	1990.3	2049.4	2115.0	2154.9	2162.9	2175.7
35°	4974.9	4658.4	3473.8	2439.5	1915.1	1910.3	1964.7	2009.5	2052.6	2055.8	2055.8
37.5°	5341.0	4850.2	3280.3	2083.0	1784.0	1841.6	1892.8	1902.3	1913.5	1903.9	1908.7
40°	5676.7	5035.6	3005.4	1758.5	1676.9	1780.9	1824.0	1792.0	1756.9	1732.9	1737.7
42.5°	5958.0	5161.9	2640.9	1531.5	1568.2	1726.5	1760.1	1694.5	1625.8	1581.0	1587.4
45°	6274.5	5278.6	2212.5	1378.0	1475.5	1688.1	1710.5	1625.8	1537.9	1470.7	1461.1
47.5°	6711.0	5516.8	1832.0	1270.9	1410.0	1667.4	1704.1	1589.0	1473.9	1373.2	1362.0
50°	7249.7	5854.1	1513.9	1200.6	1379.6	1656.2	1702.5	1549.1	1411.6	1293.3	1285.3
52.5°	7838.0	6183.4	1278.9	1146.2	1349.2	1622.6	1694.5	1504.3	1346.0	1218.1	1208.5
55°	8229.6	6312.9	1120.6	1095.0	1299.7	1569.8	1662.6	1461.1	1246.9	1130.2	1115.8
57.5°	8344.7	6146.7	1010.3	1048.7	1235.7	1496.3	1601.8	1370.0	1186.2	1093.4	1082.3
60°	8146.5	5727.8	941.6	1010.3	1165.4	1402.0	1496.3	1317.3	1138.2	1055.1	1047.1
62.5°	7587.0	5082.0	888.8	970.4	1093.4	1302.9	1429.2	1253.3	1085.5	1019.9	1008.7
65°	6461.6	4167.6	845.7	928.8	1024.7	1208.5	1355.6	1189.4	1027.9	978.3	965.6
67.5°	4519.3	2927.1	799.3	879.2	956.0	1117.4	1278.9	1130.2	968.8	932.0	919.2
70°	2209.3	1552.3	743.4	821.7	882.4	1024.7	1202.2	1058.3	890.4	869.6	852.1
72.5°	1051.9	868.0	677.8	743.4	781.7	901.6	1074.3	954.4	797.7	752.9	722.6
75°	705.0	617.1	591.5	650.6	660.2	756.1	920.8	823.3	703.4	652.2	626.7
77.5°	533.9	471.6	497.2	549.9	530.7	621.9	757.7	733.8	634.6	588.3	575.5
80°	375.7	343.7	394.9	426.8	412.4	529.1	682.6	628.3	522.7	471.6	462.0
82.5°	236.6	230.2	290.9	295.7	300.5	418.8	561.1	494.0	406.0	334.1	310.1
85°	118.3	131.1	174.2	174.2	172.6	215.8	319.7	278.2	219.0	174.2	169.5
87.5°	40.0	56.0	75.1	60.7	46.4	36.8	41.6	51.2	54.4	52.8	52.8
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)