

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: P636360

Luminaire Tested: GWS-SA3F-750-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636360  
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-SA3F-750-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (48) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

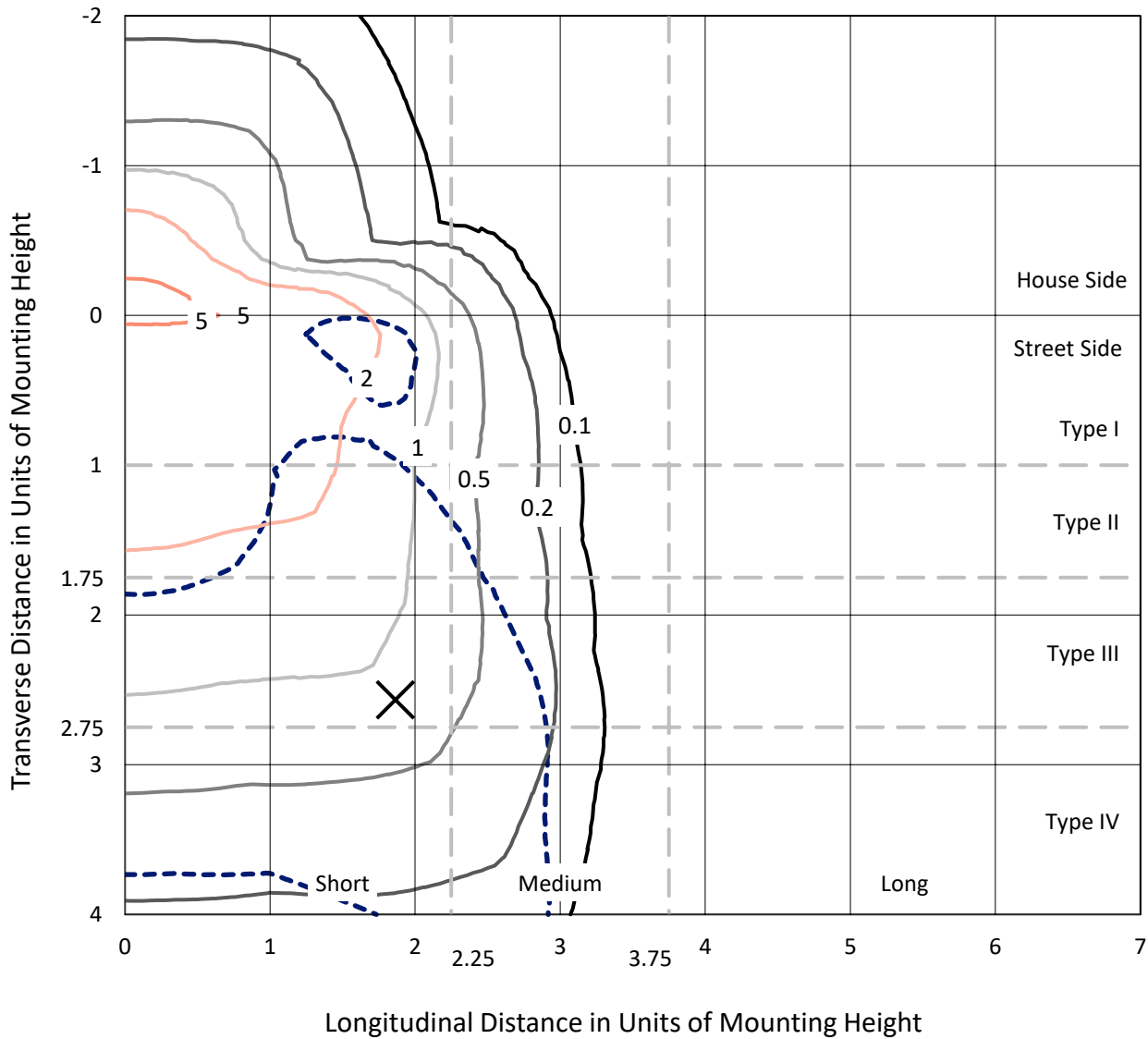
Lumens per Lamp: N/A  
Luminaire Lumens: 24158.3 lumens  
Efficiency: N/A  
Efficacy: 131.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

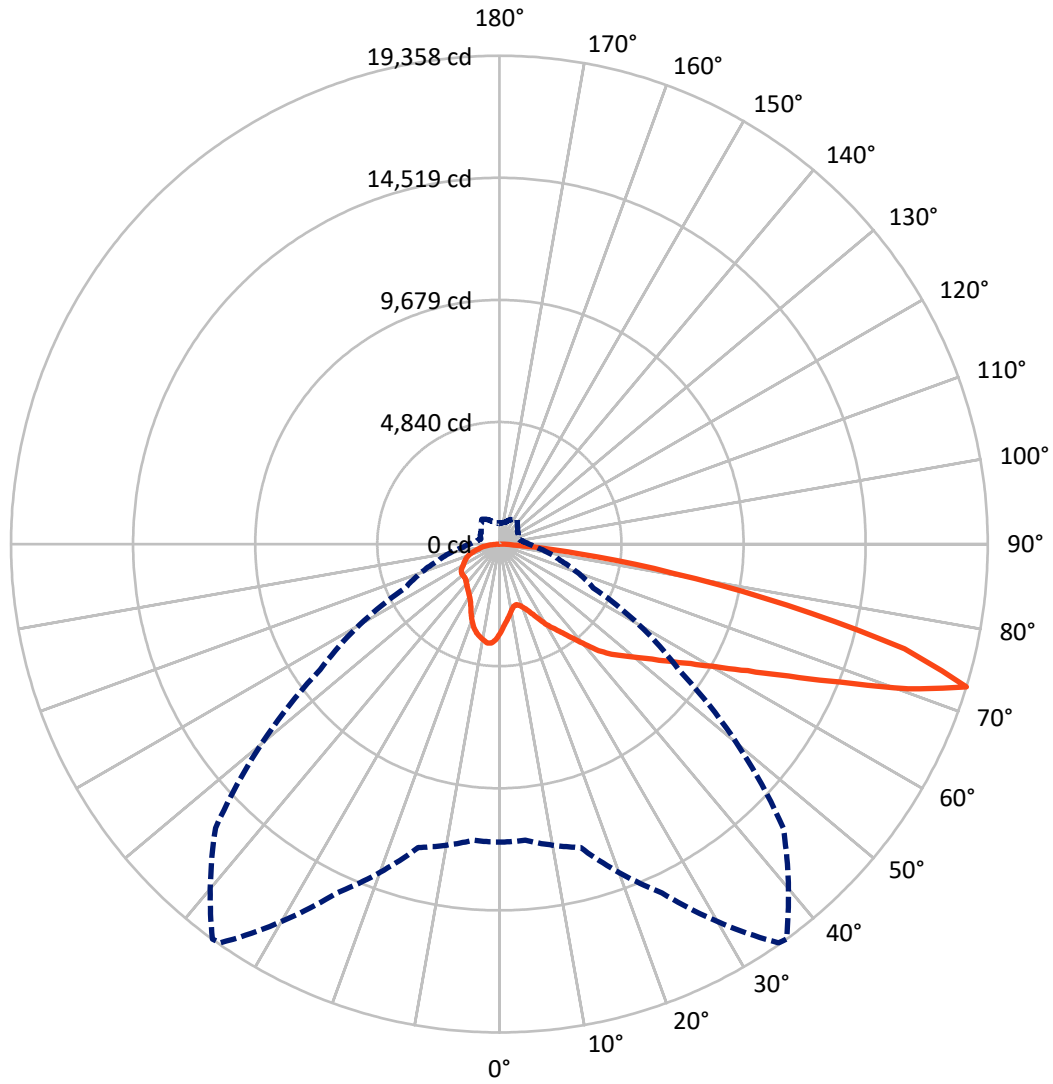
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5569.5	0.0	5569.5
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	18588.8	0.0	18588.8
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	24158.3	0.0	24158.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	330.5	1.4
10°-20°	932.4	3.9
20°-30°	1544.2	6.4
30°-40°	2312.6	9.6
40°-50°	3373.9	14.0
50°-60°	4802.1	19.9
60°-70°	6067.1	25.1
70°-80°	4323.4	17.9
80°-90°	472.0	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°	24158.3	100.0
0°-180°	24158.3	100.0

**Coefficient of Utilization**



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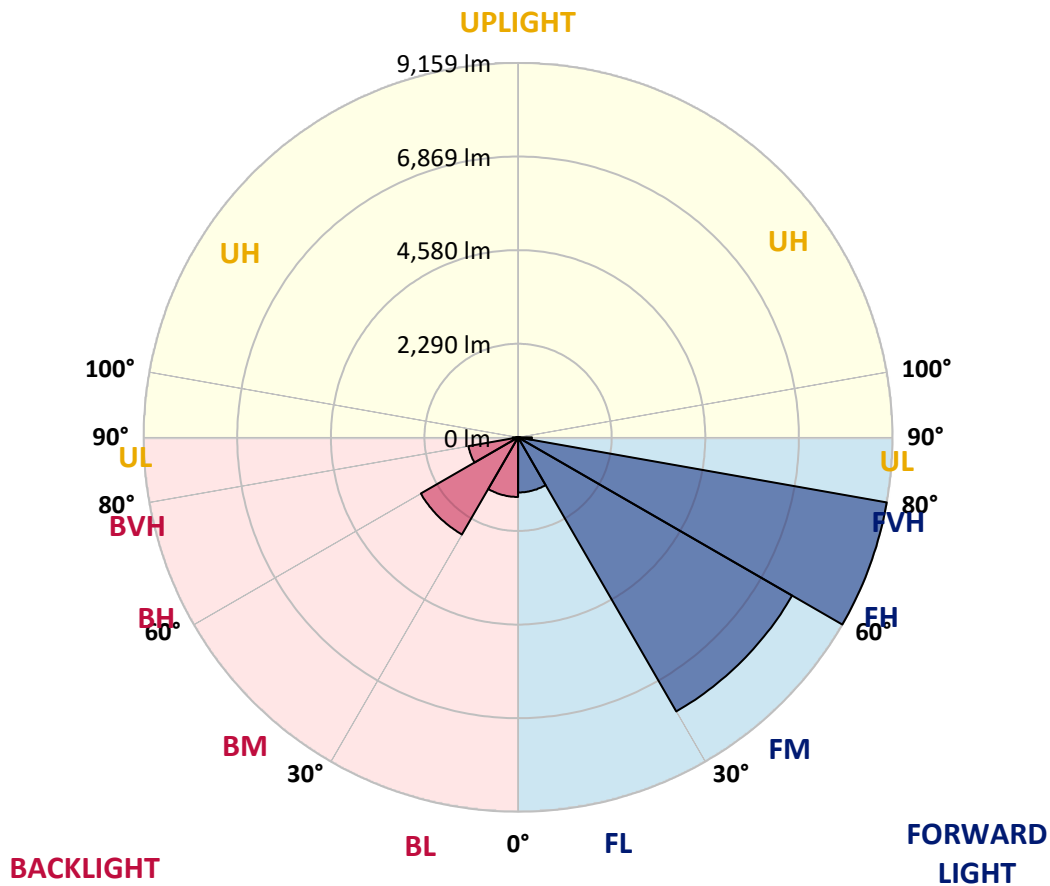
CATALOG NUMBER: GWS-SA3F-750-U-T4FT-W

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.7	5.6			
FM (30°-60°)	7742.1	32.0			
FH (60°-80°)	9159.2	37.9			G4/12000
FVH (80°-90°)	338.8	1.4			G3/500
BL (0°-30°)	1458.5	6.0	B3/2500		
BM (30°-60°)	2746.6	11.4	B3/5000		
BH (60°-80°)	1231.3	5.1	B3/2500		G3/2500
BVH (80°-90°)	133.2	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	3535.7	3535.7	3535.7	3535.7	3535.7	3535.7	3535.7	3535.7	3535.7	3535.7	3535.7
2.5°	3225.5	3220.1	3209.4	3241.6	3273.9	3270.3	3315.1	3358.2	3404.8	3453.2	3517.7
5°	2967.3	2963.7	2954.8	3003.2	3051.6	3049.8	3123.3	3193.2	3288.2	3392.2	3521.3
7.5°	2709.1	2700.2	2712.7	2773.7	2841.8	2849.0	2949.4	3064.1	3202.2	3358.2	3541.1
10°	2481.4	2479.6	2485.0	2553.1	2655.3	2662.5	2791.6	2951.2	3134.1	3342.0	3585.9
12.5°	2422.3	2418.7	2404.3	2438.4	2515.5	2526.3	2667.9	2863.3	3087.4	3351.0	3646.8
15°	2519.1	2510.1	2459.9	2443.8	2481.4	2490.4	2610.5	2811.3	3060.5	3367.1	3723.9
17.5°	2685.8	2680.4	2585.4	2519.1	2544.2	2551.4	2641.0	2802.4	3053.4	3399.4	3819.0
20°	2929.7	2906.4	2757.5	2657.1	2657.1	2667.9	2721.7	2841.8	3062.3	3438.9	3926.5
22.5°	3252.4	3205.8	2996.0	2859.7	2823.9	2838.2	2861.5	2940.4	3100.0	3505.2	4061.0
25°	3614.6	3571.5	3322.3	3130.5	3080.3	3085.6	3065.9	3080.3	3182.5	3596.6	4227.7
27.5°	4000.0	3971.4	3706.0	3462.2	3383.3	3383.3	3313.4	3279.3	3297.2	3700.6	4414.2
30°	4344.3	4304.8	4080.7	3813.6	3709.6	3709.6	3576.9	3503.4	3460.4	3827.9	4663.4
32.5°	4525.4	4502.1	4353.3	4148.9	4021.6	4001.8	3887.1	3801.0	3700.6	4016.2	5000.5
35°	4762.0	4756.7	4667.0	4507.4	4346.1	4317.4	4238.5	4170.4	3996.5	4251.1	5448.7
37.5°	5059.7	5050.7	5036.4	4941.3	4747.7	4742.3	4672.4	4589.9	4364.0	4589.9	5992.0
40°	5393.2	5377.0	5359.1	5357.3	5240.8	5221.0	5215.7	5122.4	4806.9	4998.7	6558.6
42.5°	5852.2	5796.6	5628.0	5703.3	5789.4	5771.5	5839.6	5699.8	5359.1	5484.6	7094.7
45°	6416.9	6280.7	5947.2	5968.7	6185.6	6221.5	6458.2	6424.1	5966.9	6045.8	7659.4
47.5°	6755.8	6637.5	6327.3	6309.4	6580.1	6624.9	7139.5	7204.0	6621.3	6721.7	8356.9
50°	7033.7	6951.2	6696.6	6721.7	7008.6	7053.4	7815.4	7953.5	7238.1	7413.8	9167.3
52.5°	7369.0	7250.6	7053.4	7171.8	7523.2	7577.0	8566.7	8715.5	7793.9	8174.0	10006.4
55°	7557.2	7508.8	7512.4	7693.5	8134.6	8208.1	9353.8	9328.7	8303.1	8824.8	10637.5
57.5°	7991.1	7973.2	8138.1	8206.3	8848.2	8943.2	10140.9	9925.7	8765.7	9328.7	10940.5
60°	8756.7	8711.9	8855.3	8959.3	9730.3	9864.7	11019.4	10510.2	9079.4	9703.4	10838.3
62.5°	9832.5	9776.9	9782.3	9947.2	10911.8	11053.5	11996.6	10997.9	9176.3	9760.8	10191.1
65°	11170.0	11089.3	10997.9	11222.0	12480.6	12599.0	13059.8	11352.9	8945.0	9208.5	8839.2
67.5°	12581.1	12514.7	12407.1	12876.9	14512.0	14583.8	14252.1	11322.4	8211.7	7731.2	6200.0
70°	12663.5	12679.7	13188.9	14888.6	17163.8	17181.7	15379.8	10709.2	6650.0	5011.3	3089.2
72.5°	11813.7	11786.8	12450.2	15256.1	19297.4	19358.4	15912.3	8676.0	4109.4	2499.4	1448.7
75°	9595.8	9642.4	10339.9	13348.4	16539.9	16593.6	12971.9	5115.3	1952.5	1222.8	926.9
77.5°	4130.9	4390.9	5766.1	9404.0	11845.9	11679.2	6685.9	2072.6	1041.7	871.4	710.0
80°	1192.3	1294.5	2054.7	4471.6	7098.2	6972.7	2646.4	776.3	726.1	654.4	509.2
82.5°	385.5	426.7	753.0	1780.4	3180.7	3177.1	1004.0	459.0	475.1	444.6	328.1
85°	107.6	123.7	231.3	539.7	984.3	964.6	290.5	216.9	252.8	256.4	163.2
87.5°	0.0	0.0	1.8	3.6	3.6	3.6	7.2	32.3	73.5	93.2	66.3
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°	3535.7	3535.7	3535.7	3535.7	3535.7	3535.7	3535.7	3535.7	3535.7	3535.7	3535.7
2.5°	3557.2	3551.8	3625.3	3682.7	3736.5	3772.3	3783.1	3790.3	3804.6	3811.8	3804.6
5°	3582.3	3609.2	3731.1	3820.8	3892.5	3935.5	3937.3	3933.7	3944.5	3935.5	3930.1
7.5°	3636.1	3688.1	3842.3	3937.3	3983.9	3985.7	3942.7	3892.5	3867.4	3845.9	3838.7
10°	3707.8	3784.9	3953.4	4016.2	4001.8	3935.5	3840.5	3761.6	3716.8	3684.5	3677.3
12.5°	3806.4	3892.5	4052.0	4050.2	3960.6	3842.3	3731.1	3636.1	3571.5	3533.9	3521.3
15°	3899.6	4009.0	4123.8	4039.5	3897.8	3754.4	3611.0	3483.7	3397.6	3338.5	3327.7
17.5°	4014.4	4130.9	4175.8	4005.4	3819.0	3634.3	3442.4	3275.7	3159.2	3089.2	3083.9
20°	4147.1	4251.1	4200.9	3946.3	3716.8	3474.7	3214.7	3028.3	2902.8	2834.6	2840.0
22.5°	4301.3	4376.6	4208.0	3865.6	3575.1	3248.8	2958.3	2779.1	2694.8	2658.9	2660.7
25°	4466.2	4514.6	4195.5	3756.2	3358.2	2972.7	2694.8	2612.3	2605.1	2596.2	2599.8
27.5°	4661.6	4650.9	4157.8	3602.0	3065.9	2651.8	2510.1	2531.6	2560.3	2556.7	2560.3
30°	4923.4	4821.2	4109.4	3388.7	2718.1	2382.8	2400.7	2461.7	2499.4	2502.9	2513.7
32.5°	5222.8	5009.5	4032.3	3098.2	2386.4	2232.2	2298.5	2372.1	2416.9	2425.8	2440.2
35°	5579.6	5224.6	3896.1	2736.0	2147.9	2142.6	2203.5	2253.7	2302.1	2305.7	2305.7
37.5°	5990.2	5439.8	3679.1	2336.2	2000.9	2065.5	2122.8	2133.6	2146.1	2135.4	2140.8
40°	6366.7	5647.8	3370.7	1972.2	1880.8	1997.3	2045.7	2009.9	1970.4	1943.5	1948.9
42.5°	6682.3	5789.4	2961.9	1717.6	1758.9	1936.4	1974.0	1900.5	1823.4	1773.2	1780.4
45°	7037.3	5920.3	2481.4	1545.5	1654.9	1893.3	1918.4	1823.4	1724.8	1649.5	1638.7
47.5°	7526.8	6187.4	2054.7	1425.4	1581.4	1870.0	1911.3	1782.2	1653.1	1540.1	1527.6
50°	8131.0	6565.7	1697.9	1346.5	1547.3	1857.5	1909.5	1737.4	1583.2	1450.5	1441.5
52.5°	8790.8	6935.1	1434.4	1285.5	1513.2	1819.8	1900.5	1687.2	1509.7	1366.2	1355.5
55°	9230.0	7080.3	1256.9	1228.2	1457.7	1760.7	1864.7	1638.7	1398.5	1267.6	1251.5
57.5°	9359.1	6893.8	1133.1	1176.2	1385.9	1678.2	1796.5	1536.5	1330.4	1226.4	1213.8
60°	9136.8	6424.1	1056.0	1133.1	1307.1	1572.4	1678.2	1477.4	1276.6	1183.3	1174.4
62.5°	8509.3	5699.8	996.9	1088.3	1226.4	1461.2	1602.9	1405.7	1217.4	1143.9	1131.3
65°	7247.1	4674.2	948.5	1041.7	1149.3	1355.5	1520.4	1333.9	1152.9	1097.3	1082.9
67.5°	5068.6	3282.9	896.5	986.1	1072.2	1253.3	1434.4	1267.6	1086.5	1045.3	1030.9
70°	2477.8	1740.9	833.7	921.6	989.7	1149.3	1348.3	1186.9	998.7	975.4	955.6
72.5°	1179.8	973.6	760.2	833.7	876.7	1011.2	1204.9	1070.4	894.7	844.5	810.4
75°	790.7	692.1	663.4	729.7	740.5	848.1	1032.7	923.4	788.9	731.5	702.8
77.5°	598.8	528.9	557.6	616.8	595.3	697.5	849.9	823.0	711.8	659.8	645.5
80°	421.3	385.5	442.9	478.7	462.6	593.5	765.6	704.6	586.3	528.9	518.2
82.5°	265.4	258.2	326.3	331.7	337.1	469.7	629.3	554.0	455.4	374.7	347.8
85°	132.7	147.0	195.4	195.4	193.6	242.0	358.6	312.0	245.6	195.4	190.1
87.5°	44.8	62.8	84.3	68.1	52.0	41.2	46.6	57.4	61.0	59.2	59.2
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)