

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: P636250

Luminaire Tested: GWS-SA3F-735-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636250  
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-735-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

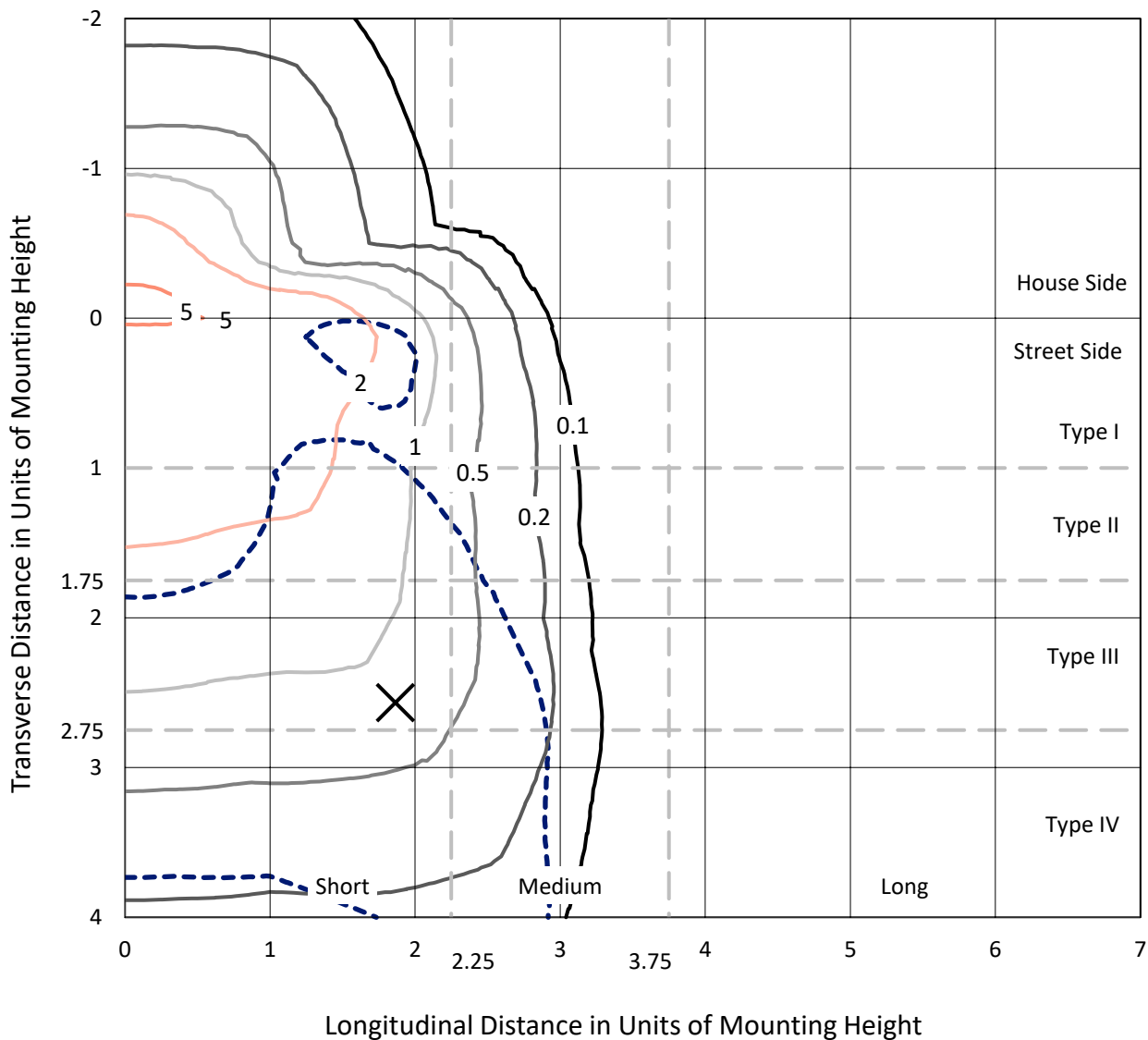
Lumens per Lamp: N/A  
Luminaire Lumens: 23293.5 lumens  
Efficiency: N/A  
Efficacy: 127.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

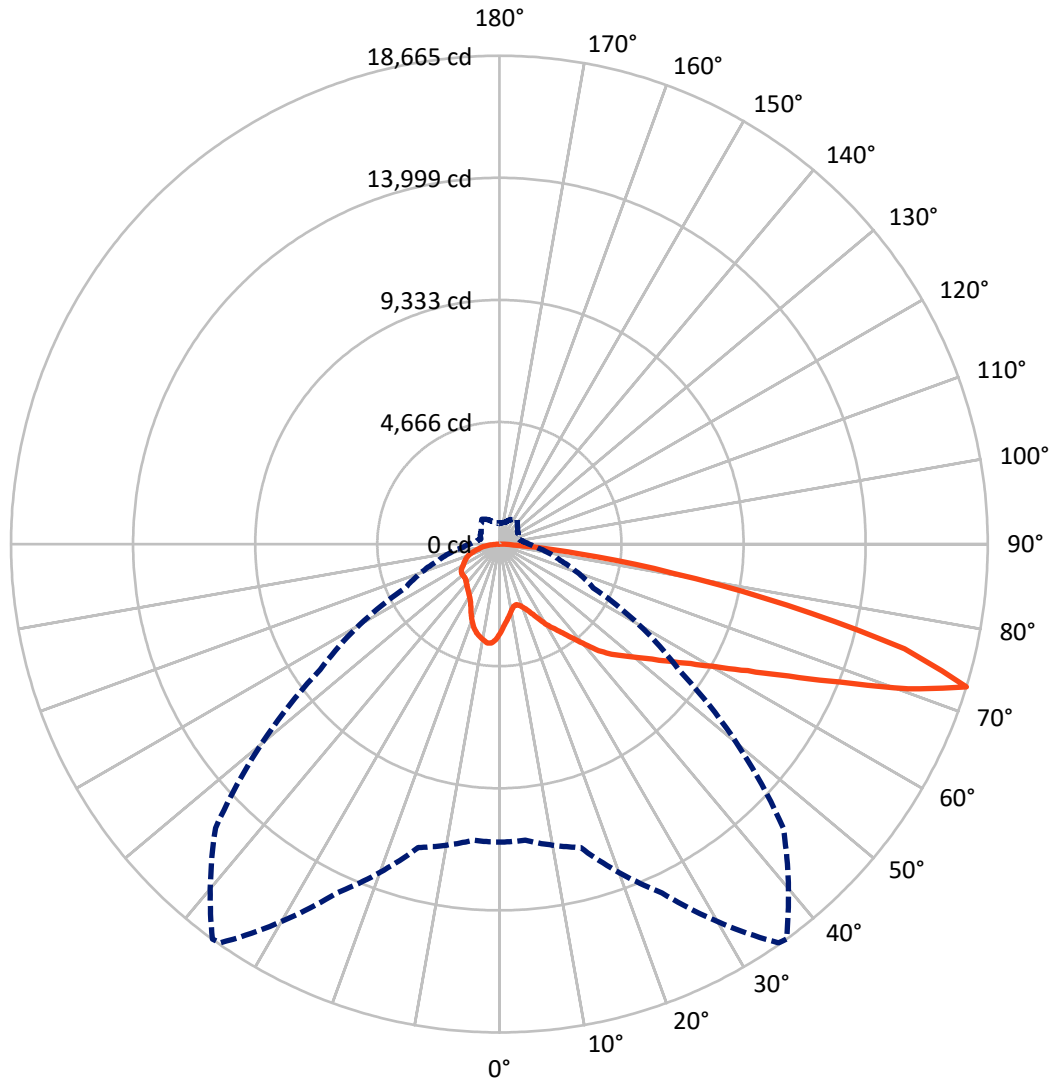
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	5370.2	0.0	5370.2
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	17923.4	0.0	17923.4
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	23293.5	0.0	23293.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	318.7	1.4
10°-20°	899.1	3.9
20°-30°	1489.0	6.4
30°-40°	2229.8	9.6
40°-50°	3253.2	14.0
50°-60°	4630.2	19.9
60°-70°	5849.9	25.1
70°-80°	4168.6	17.9
80°-90°	455.1	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°	23293.5	100.0
0°-180°	23293.5	100.0

**Coefficient of Utilization**



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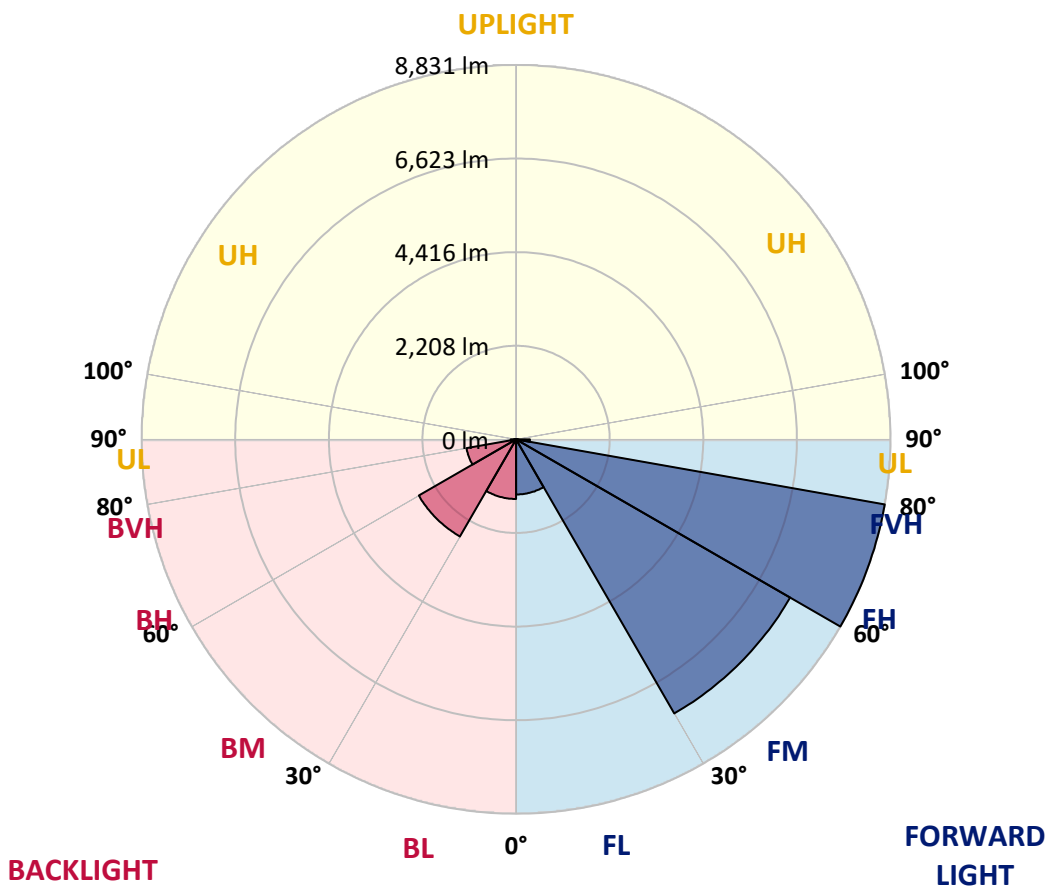
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1300.4	5.6			
FM (30°-60°)	7465.0	32.0			
FH (60°-80°)	8831.3	37.9			G4/12000
FVH (80°-90°)	326.6	1.4			G3/500
BL (0°-30°)	1406.3	6.0	B3/2500		
BM (30°-60°)	2648.2	11.4	B3/5000		
BH (60°-80°)	1187.2	5.1	B3/2500		G3/2500
BVH (80°-90°)	128.4	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°	3409.1	3409.1	3409.1	3409.1	3409.1	3409.1	3409.1	3409.1	3409.1	3409.1	3409.1
2.5°	3110.0	3104.8	3094.5	3125.6	3156.7	3153.3	3196.5	3238.0	3282.9	3329.6	3391.8
5°	2861.1	2857.6	2849.0	2895.7	2942.3	2940.6	3011.5	3078.9	3170.5	3270.8	3395.3
7.5°	2612.2	2603.5	2615.6	2674.4	2740.1	2747.0	2843.8	2954.4	3087.6	3238.0	3414.3
10°	2392.6	2390.9	2396.1	2461.7	2560.3	2567.2	2691.7	2845.5	3021.9	3222.4	3457.5
12.5°	2335.6	2332.1	2318.3	2351.1	2425.4	2435.8	2572.4	2760.8	2976.9	3231.0	3516.3
15°	2428.9	2420.3	2371.9	2356.3	2392.6	2401.2	2517.1	2710.7	2951.0	3246.6	3590.6
17.5°	2589.7	2584.5	2492.9	2428.9	2453.1	2460.0	2546.5	2702.0	2944.1	3277.7	3682.3
20°	2824.8	2802.3	2658.8	2562.0	2562.0	2572.4	2624.3	2740.1	2952.7	3315.8	3786.0
22.5°	3136.0	3091.0	2888.8	2757.4	2722.8	2736.6	2759.1	2835.2	2989.0	3379.7	3915.6
25°	3485.2	3443.7	3203.4	3018.4	2970.0	2975.2	2956.2	2970.0	3068.5	3467.9	4076.4
27.5°	3856.9	3829.2	3573.3	3338.2	3262.2	3262.2	3194.7	3161.9	3179.2	3568.2	4256.2
30°	4188.8	4150.7	3934.7	3677.1	3576.8	3576.8	3448.9	3378.0	3336.5	3690.9	4496.5
32.5°	4363.4	4340.9	4197.4	4000.3	3877.6	3858.6	3747.9	3665.0	3568.2	3872.4	4821.5
35°	4591.6	4586.4	4500.0	4346.1	4190.5	4162.8	4086.8	4021.1	3853.4	4098.9	5253.7
37.5°	4878.6	4869.9	4856.1	4764.5	4577.7	4572.6	4505.1	4425.6	4207.8	4425.6	5777.5
40°	5200.1	5184.5	5167.3	5165.5	5053.2	5034.1	5029.0	4939.1	4634.8	4819.8	6323.8
42.5°	5642.7	5589.1	5426.6	5499.2	5582.2	5564.9	5630.6	5495.7	5167.3	5288.3	6840.7
45°	6187.2	6055.8	5734.3	5755.0	5964.2	5998.8	6227.0	6194.1	5753.3	5829.4	7385.2
47.5°	6514.0	6399.9	6100.8	6083.5	6344.5	6387.8	6883.9	6946.1	6384.3	6481.1	8057.7
50°	6781.9	6702.4	6456.9	6481.1	6757.7	6800.9	7535.7	7668.8	6979.0	7148.4	8839.1
52.5°	7105.2	6991.1	6800.9	6915.0	7253.9	7305.7	8260.0	8403.5	7514.9	7881.4	9648.2
55°	7286.7	7240.0	7243.5	7418.1	7843.4	7914.2	9018.9	8994.7	8005.9	8508.9	10256.7
57.5°	7705.1	7687.8	7846.8	7912.5	8531.4	8623.0	9777.8	9570.4	8451.9	8994.7	10548.9
60°	8443.2	8400.0	8538.3	8638.6	9382.0	9511.6	10624.9	10134.0	8754.4	9356.0	10450.3
62.5°	9480.5	9426.9	9432.1	9591.1	10521.2	10657.8	11567.1	10604.2	8847.8	9411.4	9826.3
65°	10770.2	10692.4	10604.2	10820.3	12033.9	12148.0	12592.3	10946.5	8624.8	8878.9	8522.8
67.5°	12130.7	12066.7	11963.0	12415.9	13992.6	14061.7	13741.9	10917.1	7917.7	7454.4	5978.0
70°	12210.2	12225.8	12716.7	14355.6	16549.4	16566.7	14829.3	10325.9	6412.0	4831.9	2978.6
72.5°	11390.8	11364.8	12004.5	14710.0	18606.6	18665.4	15342.7	8365.5	3962.3	2409.9	1396.8
75°	9252.3	9297.3	9969.7	12870.6	15947.8	15999.6	12507.6	4932.1	1882.6	1179.0	893.8
77.5°	3983.1	4233.7	5559.7	9067.3	11421.9	11261.1	6446.5	1998.4	1004.4	840.2	684.6
80°	1149.6	1248.2	1981.2	4311.5	6844.1	6723.1	2551.6	748.6	700.1	631.0	491.0
82.5°	371.7	411.4	726.1	1716.7	3066.8	3063.4	968.1	442.6	458.1	428.7	316.4
85°	103.7	119.3	223.0	520.4	949.1	930.1	280.1	209.2	243.8	247.2	157.3
87.5°	0.0	0.0	1.7	3.5	3.5	3.5	6.9	31.1	70.9	89.9	64.0
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°	3409.1	3409.1	3409.1	3409.1	3409.1	3409.1	3409.1	3409.1	3409.1	3409.1	3409.1
2.5°	3429.9	3424.7	3495.5	3550.9	3602.7	3637.3	3647.7	3654.6	3668.4	3675.3	3668.4
5°	3454.1	3480.0	3597.5	3684.0	3753.1	3794.6	3796.3	3792.9	3803.3	3794.6	3789.4
7.5°	3505.9	3556.1	3704.7	3796.3	3841.3	3843.0	3801.5	3753.1	3728.9	3708.2	3701.3
10°	3575.1	3649.4	3811.9	3872.4	3858.6	3794.6	3703.0	3626.9	3583.7	3552.6	3545.7
12.5°	3670.2	3753.1	3907.0	3905.3	3818.8	3704.7	3597.5	3505.9	3443.7	3407.4	3395.3
15°	3760.0	3865.5	3976.1	3894.9	3758.3	3620.0	3481.7	3359.0	3276.0	3218.9	3208.6
17.5°	3870.7	3983.1	4026.3	3862.0	3682.3	3504.2	3319.2	3158.4	3046.1	2978.6	2973.5
20°	3998.6	4098.9	4050.5	3805.0	3583.7	3350.3	3099.7	2919.9	2798.9	2733.2	2738.4
22.5°	4147.3	4219.9	4057.4	3727.2	3447.1	3132.5	2852.4	2679.6	2598.3	2563.7	2565.5
25°	4306.3	4353.0	4045.3	3621.7	3238.0	2866.3	2598.3	2518.8	2511.9	2503.2	2506.7
27.5°	4494.8	4484.4	4009.0	3473.1	2956.2	2556.8	2420.3	2441.0	2468.7	2465.2	2468.7
30°	4747.2	4648.6	3962.3	3267.4	2620.8	2297.5	2314.8	2373.6	2409.9	2413.3	2423.7
32.5°	5035.9	4830.1	3888.0	2987.3	2301.0	2152.3	2216.3	2287.1	2330.4	2339.0	2352.8
35°	5379.9	5037.6	3756.6	2638.1	2071.1	2065.9	2124.6	2173.0	2219.7	2223.2	2223.2
37.5°	5775.8	5245.0	3547.4	2252.6	1929.3	1991.5	2046.8	2057.2	2069.3	2058.9	2064.1
40°	6138.8	5445.6	3250.1	1901.6	1813.5	1925.8	1972.5	1937.9	1899.9	1874.0	1879.2
42.5°	6443.1	5582.2	2855.9	1656.1	1695.9	1867.1	1903.4	1832.5	1758.1	1709.7	1716.7
45°	6785.4	5708.4	2392.6	1490.2	1595.6	1825.6	1849.8	1758.1	1663.1	1590.5	1580.1
47.5°	7257.3	5965.9	1981.2	1374.4	1524.8	1803.1	1842.9	1718.4	1593.9	1485.0	1472.9
50°	7839.9	6330.7	1637.1	1298.3	1491.9	1791.0	1841.1	1675.2	1526.5	1398.6	1389.9
52.5°	8476.1	6686.8	1383.0	1239.5	1459.1	1754.7	1832.5	1626.8	1455.6	1317.3	1306.9
55°	8899.6	6826.9	1211.9	1184.2	1405.5	1697.6	1797.9	1580.1	1348.4	1222.2	1206.7
57.5°	9024.1	6647.1	1092.6	1134.1	1336.3	1618.1	1732.2	1481.5	1282.7	1182.5	1170.4
60°	8809.7	6194.1	1018.2	1092.6	1260.3	1516.1	1618.1	1424.5	1230.9	1141.0	1132.3
62.5°	8204.7	5495.7	961.2	1049.4	1182.5	1408.9	1545.5	1355.3	1173.8	1102.9	1090.8
65°	6987.6	4506.9	914.5	1004.4	1108.1	1306.9	1466.0	1286.2	1111.6	1058.0	1044.2
67.5°	4887.2	3165.4	864.4	950.8	1033.8	1208.4	1383.0	1222.2	1047.6	1007.9	994.0
70°	2389.1	1678.6	803.9	888.6	954.3	1108.1	1300.0	1144.4	962.9	940.4	921.4
72.5°	1137.5	938.7	733.0	803.9	845.4	975.0	1161.7	1032.1	862.6	814.2	781.4
75°	762.4	667.3	639.6	703.6	714.0	817.7	995.8	890.3	760.7	705.3	677.7
77.5°	577.4	510.0	537.6	594.7	573.9	672.5	819.4	793.5	686.3	636.2	622.4
80°	406.3	371.7	427.0	461.6	446.0	572.2	738.2	679.4	565.3	510.0	499.6
82.5°	255.9	248.9	314.6	319.8	325.0	452.9	606.8	534.2	439.1	361.3	335.4
85°	127.9	141.8	188.4	188.4	186.7	233.4	345.8	300.8	236.8	188.4	183.2
87.5°	43.2	60.5	81.3	65.7	50.1	39.8	44.9	55.3	58.8	57.0	57.0
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)