

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: P636305

Luminaire Tested: GWS-SA3F-740-U-T4FT-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P636305  
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-740-U-T4FT-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS  
Light Source: (48) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

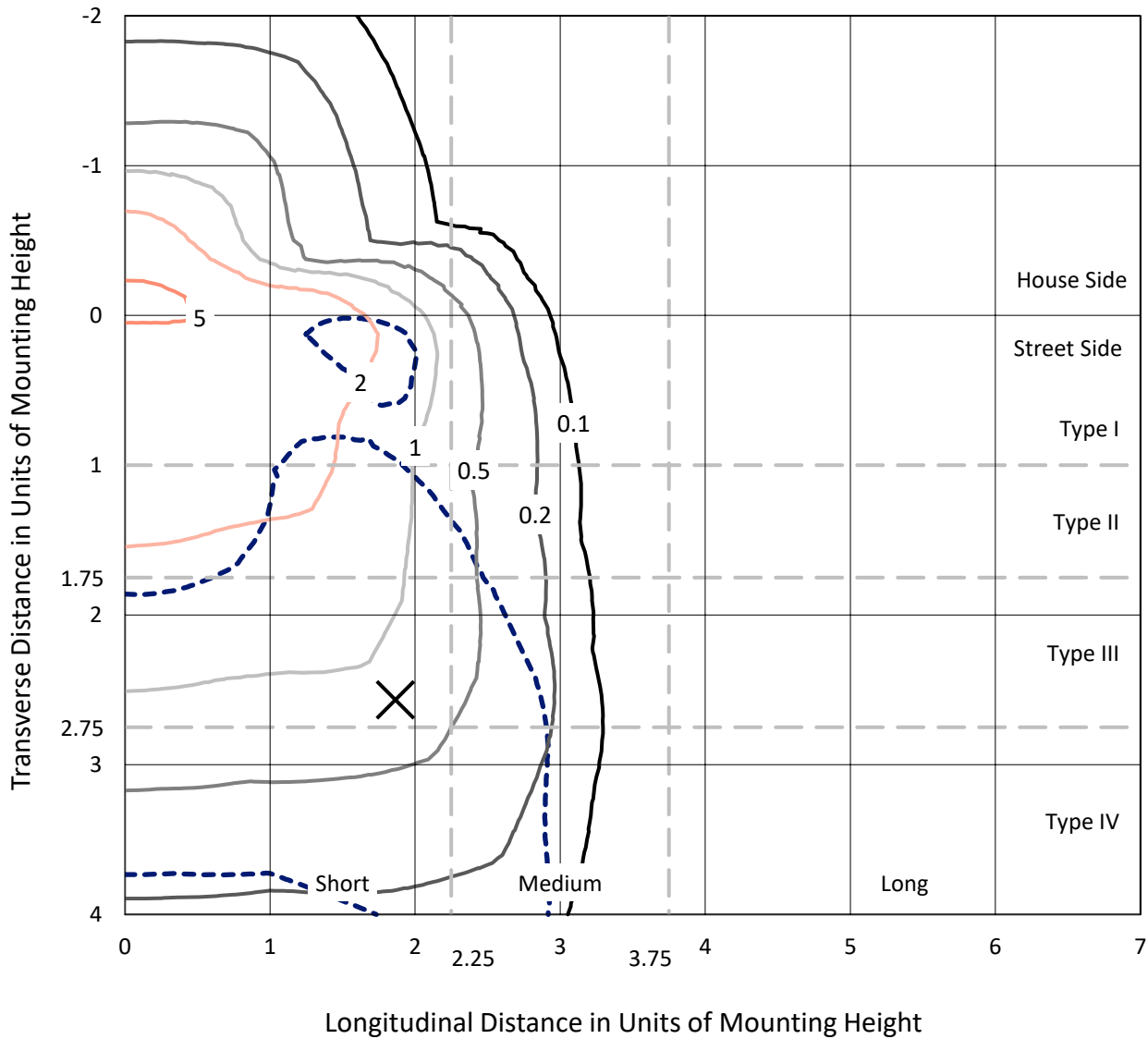
Lumens per Lamp: N/A  
Luminaire Lumens: 23617.1 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 183.2  
Input Voltage (V): 120  
Input Current (Ain): 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

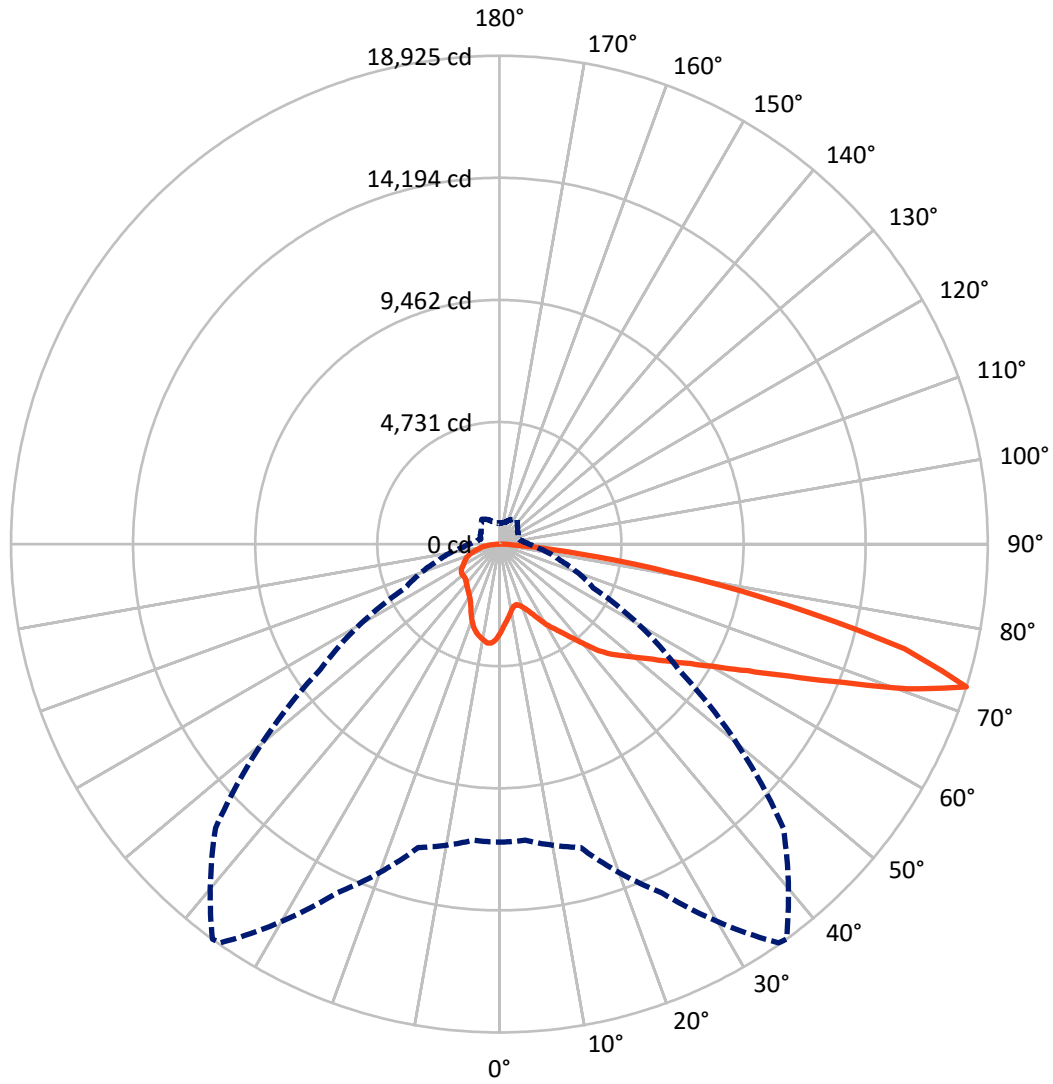
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 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	5444.8	0.0	5444.8
	% Fixture	23.1	0.0	23.1
<b>Street Side</b>	Lumens	18172.3	0.0	18172.3
	% Fixture	76.9	0.0	76.9
<b>Total</b>	Lumens	23617.1	0.0	23617.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.1	1.4
10°-20°	911.5	3.9
20°-30°	1509.6	6.4
30°-40°	2260.8	9.6
40°-50°	3298.3	14.0
50°-60°	4694.5	19.9
60°-70°	5931.2	25.1
70°-80°	4226.5	17.9
80°-90°	461.4	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°	23617.1	100.0
0°-180°	23617.1	100.0

**Coefficient of Utilization**



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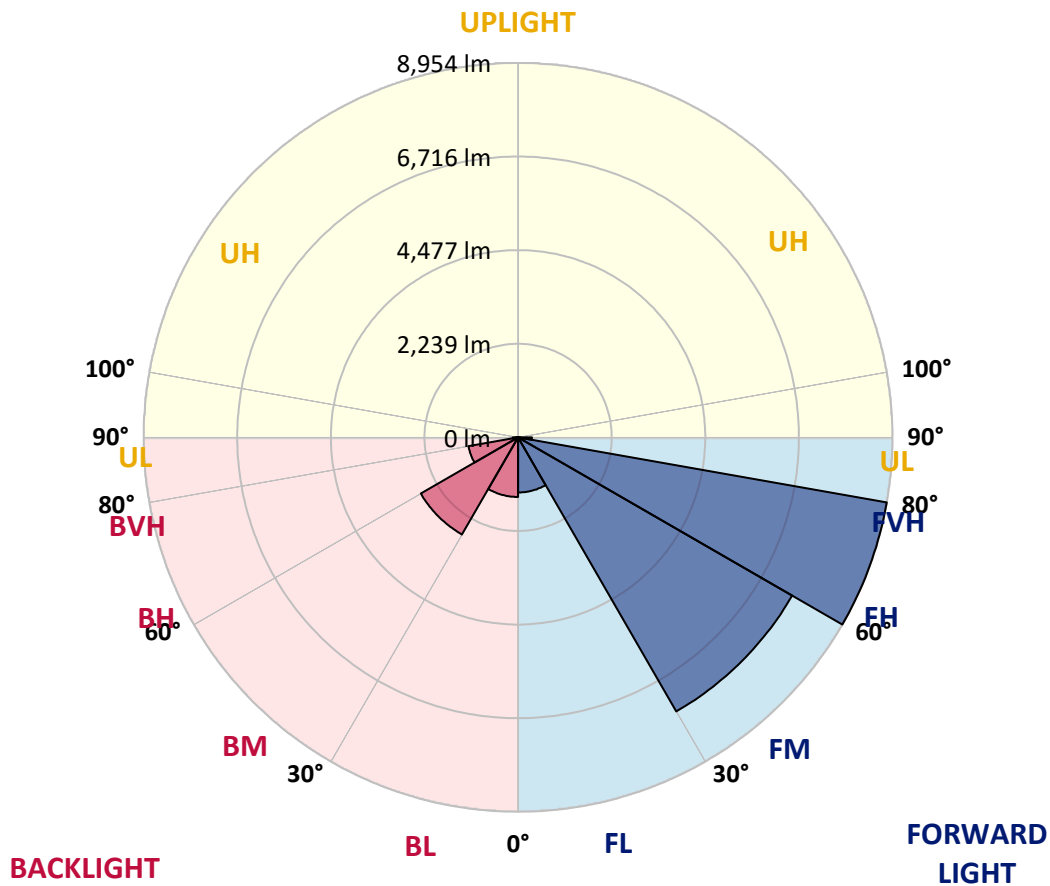
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1318.5	5.6			
FM (30°-60°)	7568.7	32.0			
FH (60°-80°)	8954.0	37.9			G4/12000
FVH (80°-90°)	331.2	1.4			G3/500
BL (0°-30°)	1425.8	6.0	B3/2500		
BM (30°-60°)	2685.0	11.4	B3/5000		
BH (60°-80°)	1203.7	5.1	B3/2500		G3/2500
BVH (80°-90°)	130.2	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°	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5
2.5°	3153.2	3148.0	3137.5	3169.0	3200.6	3197.1	3240.9	3282.9	3328.5	3375.8	3438.9
5°	2900.8	2897.3	2888.6	2935.9	2983.2	2981.5	3053.3	3121.7	3214.6	3316.2	3442.4
7.5°	2648.4	2639.7	2651.9	2711.5	2778.1	2785.2	2883.3	2995.5	3130.5	3282.9	3461.7
10°	2425.8	2424.1	2429.3	2495.9	2595.9	2602.9	2729.1	2885.1	3063.8	3267.2	3505.5
12.5°	2368.0	2364.5	2350.5	2383.8	2459.1	2469.7	2608.1	2799.2	3018.3	3275.9	3565.1
15°	2462.6	2453.9	2404.8	2389.0	2425.8	2434.6	2552.0	2748.3	2992.0	3291.7	3640.5
17.5°	2625.7	2620.4	2527.5	2462.6	2487.2	2494.2	2581.8	2739.6	2985.0	3323.3	3733.4
20°	2864.0	2841.2	2695.8	2597.6	2597.6	2608.1	2660.7	2778.1	2993.7	3361.8	3838.6
22.5°	3179.5	3134.0	2928.9	2795.7	2760.6	2774.6	2797.4	2874.5	3030.5	3426.7	3970.0
25°	3533.6	3491.5	3247.9	3060.3	3011.3	3016.5	2997.2	3011.3	3111.2	3516.1	4133.0
27.5°	3910.4	3882.4	3623.0	3384.6	3307.5	3307.5	3239.1	3205.8	3223.3	3617.7	4315.3
30°	4247.0	4208.4	3989.3	3728.1	3626.5	3626.5	3496.8	3424.9	3382.9	3742.2	4559.0
32.5°	4424.0	4401.2	4255.7	4055.9	3931.5	3912.2	3800.0	3715.9	3617.7	3926.2	4888.5
35°	4655.4	4650.1	4562.5	4406.5	4248.7	4220.7	4143.6	4077.0	3906.9	4155.8	5326.7
37.5°	4946.3	4937.6	4923.5	4830.6	4641.3	4636.1	4567.7	4487.1	4266.2	4487.1	5857.8
40°	5272.3	5256.6	5239.0	5237.3	5123.4	5104.1	5098.8	5007.7	4699.2	4886.7	6411.6
42.5°	5721.1	5666.7	5502.0	5575.6	5659.7	5642.2	5708.8	5572.1	5239.0	5361.7	6935.7
45°	6273.2	6140.0	5813.9	5835.0	6047.1	6082.1	6313.5	6280.2	5833.2	5910.4	7487.8
47.5°	6604.4	6488.8	6185.5	6168.0	6432.7	6476.5	6979.5	7042.6	6473.0	6571.1	8169.7
50°	6876.1	6795.5	6546.6	6571.1	6851.6	6895.4	7640.3	7775.3	7075.9	7247.7	8961.9
52.5°	7203.9	7088.2	6895.4	7011.1	7354.6	7407.2	8374.7	8520.2	7619.3	7990.9	9782.2
55°	7387.9	7340.6	7344.1	7521.1	7952.3	8024.2	9144.2	9119.7	8117.1	8627.1	10399.2
57.5°	7812.1	7794.6	7955.8	8022.4	8649.9	8742.8	9913.7	9703.4	8569.3	9119.7	10695.4
60°	8560.5	8516.7	8656.9	8758.6	9512.3	9643.8	10772.5	10274.8	8876.0	9486.0	10595.5
62.5°	9612.2	9557.9	9563.1	9724.4	10667.4	10805.8	11727.8	10751.5	8970.7	9542.1	9962.8
65°	10919.8	10840.9	10751.5	10970.6	12201.1	12316.7	12767.2	11098.6	8744.6	9002.2	8641.2
67.5°	12299.2	12234.4	12129.2	12588.4	14186.9	14257.1	13932.8	11068.8	8027.7	7558.0	6061.1
70°	12379.8	12395.6	12893.4	14555.0	16779.3	16796.8	15035.3	10469.3	6501.0	4899.0	3020.0
72.5°	11549.0	11522.7	12171.3	14914.3	18865.1	18924.7	15555.9	8481.7	4017.4	2443.4	1416.2
75°	9380.8	9426.4	10108.2	13049.4	16169.3	16221.9	12681.3	5000.7	1908.8	1195.4	906.2
77.5°	4038.4	4292.5	5636.9	9193.3	11580.6	11417.6	6536.1	2026.2	1018.4	851.8	694.1
80°	1165.6	1265.5	2008.7	4371.4	6939.2	6816.5	2587.1	759.0	709.9	639.8	497.8
82.5°	376.8	417.2	736.2	1740.5	3109.4	3105.9	981.6	448.7	464.5	434.7	320.8
85°	105.2	120.9	226.1	527.6	962.3	943.0	283.9	212.1	247.1	250.6	159.5
87.5°	0.0	0.0	1.8	3.5	3.5	3.5	7.0	31.5	71.9	91.1	64.9
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°	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5	3456.5
2.5°	3477.5	3472.2	3544.1	3600.2	3652.8	3687.8	3698.4	3705.4	3719.4	3726.4	3719.4
5°	3502.0	3528.3	3647.5	3735.2	3805.3	3847.3	3849.1	3845.6	3856.1	3847.3	3842.1
7.5°	3554.6	3605.5	3756.2	3849.1	3894.7	3896.4	3854.3	3805.3	3780.7	3759.7	3752.7
10°	3624.7	3700.1	3864.9	3926.2	3912.2	3847.3	3754.4	3677.3	3633.5	3601.9	3594.9
12.5°	3721.1	3805.3	3961.3	3959.5	3871.9	3756.2	3647.5	3554.6	3491.5	3454.7	3442.4
15°	3812.3	3919.2	4031.4	3949.0	3810.5	3670.3	3530.1	3405.6	3321.5	3263.7	3253.1
17.5°	3924.5	4038.4	4082.2	3915.7	3733.4	3552.9	3365.3	3202.3	3088.4	3020.0	3014.8
20°	4054.2	4155.8	4106.7	3857.9	3633.5	3396.9	3142.7	2960.4	2837.7	2771.1	2776.4
22.5°	4204.9	4278.5	4113.8	3779.0	3495.0	3176.0	2892.1	2716.8	2634.4	2599.4	2601.1
25°	4366.2	4413.5	4101.5	3672.1	3282.9	2906.1	2634.4	2553.8	2546.8	2538.0	2541.5
27.5°	4557.2	4546.7	4064.7	3521.3	2997.2	2592.4	2453.9	2474.9	2503.0	2499.5	2503.0
30°	4813.1	4713.2	4017.4	3312.7	2657.2	2329.4	2347.0	2406.6	2443.4	2446.9	2457.4
32.5°	5105.8	4897.2	3942.0	3028.8	2332.9	2182.2	2247.1	2318.9	2362.7	2371.5	2385.5
35°	5454.6	5107.6	3808.8	2674.7	2099.8	2094.6	2154.2	2203.2	2250.6	2254.1	2254.1
37.5°	5856.0	5317.9	3596.7	2283.9	1956.1	2019.2	2075.3	2085.8	2098.1	2087.6	2092.8
40°	6224.1	5521.2	3295.2	1928.1	1838.7	1952.6	1999.9	1964.9	1926.3	1900.0	1905.3
42.5°	6532.6	5659.7	2895.6	1679.2	1719.5	1893.0	1929.8	1857.9	1782.6	1733.5	1740.5
45°	6879.6	5787.7	2425.8	1510.9	1617.8	1850.9	1875.5	1782.6	1686.2	1612.6	1602.0
47.5°	7358.1	6048.8	2008.7	1393.5	1545.9	1828.1	1868.5	1742.3	1616.1	1505.6	1493.4
50°	7948.8	6418.7	1659.9	1316.3	1512.6	1815.9	1866.7	1698.4	1547.7	1418.0	1409.2
52.5°	8593.8	6779.7	1402.2	1256.7	1479.3	1779.1	1857.9	1649.4	1475.8	1335.6	1325.1
55°	9023.3	6921.7	1228.7	1200.6	1425.0	1721.2	1822.9	1602.0	1367.2	1239.2	1223.4
57.5°	9149.5	6739.4	1107.8	1149.8	1354.9	1640.6	1756.3	1502.1	1300.6	1198.9	1186.6
60°	8932.1	6280.2	1032.4	1107.8	1277.8	1537.2	1640.6	1444.3	1248.0	1156.8	1148.1
62.5°	8318.7	5572.1	974.5	1063.9	1198.9	1428.5	1567.0	1374.2	1190.1	1118.3	1106.0
65°	7084.7	4569.5	927.2	1018.4	1123.5	1325.1	1486.4	1304.1	1127.0	1072.7	1058.7
67.5°	4955.1	3209.3	876.4	964.0	1048.2	1225.2	1402.2	1239.2	1062.2	1021.9	1007.8
70°	2422.3	1701.9	815.0	900.9	967.5	1123.5	1318.1	1160.3	976.3	953.5	934.2
72.5°	1153.3	951.8	743.2	815.0	857.1	988.6	1177.9	1046.4	874.6	825.6	792.3
75°	773.0	676.6	648.5	713.4	723.9	829.1	1009.6	902.7	771.2	715.1	687.1
77.5°	585.4	517.1	545.1	603.0	581.9	681.8	830.8	804.5	695.9	645.0	631.0
80°	411.9	376.8	432.9	468.0	452.2	580.2	748.4	688.8	573.2	517.1	506.6
82.5°	259.4	252.4	319.0	324.3	329.5	459.2	615.2	541.6	445.2	366.3	340.0
85°	129.7	143.7	191.1	191.1	189.3	236.6	350.6	305.0	240.1	191.1	185.8
87.5°	43.8	61.3	82.4	66.6	50.8	40.3	45.6	56.1	59.6	57.8	57.8
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)