

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: P643728

Luminaire Tested: GWS-SA6F-740-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643728
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-740-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50596 lumens
Efficiency: N/A
Efficacy: 135.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

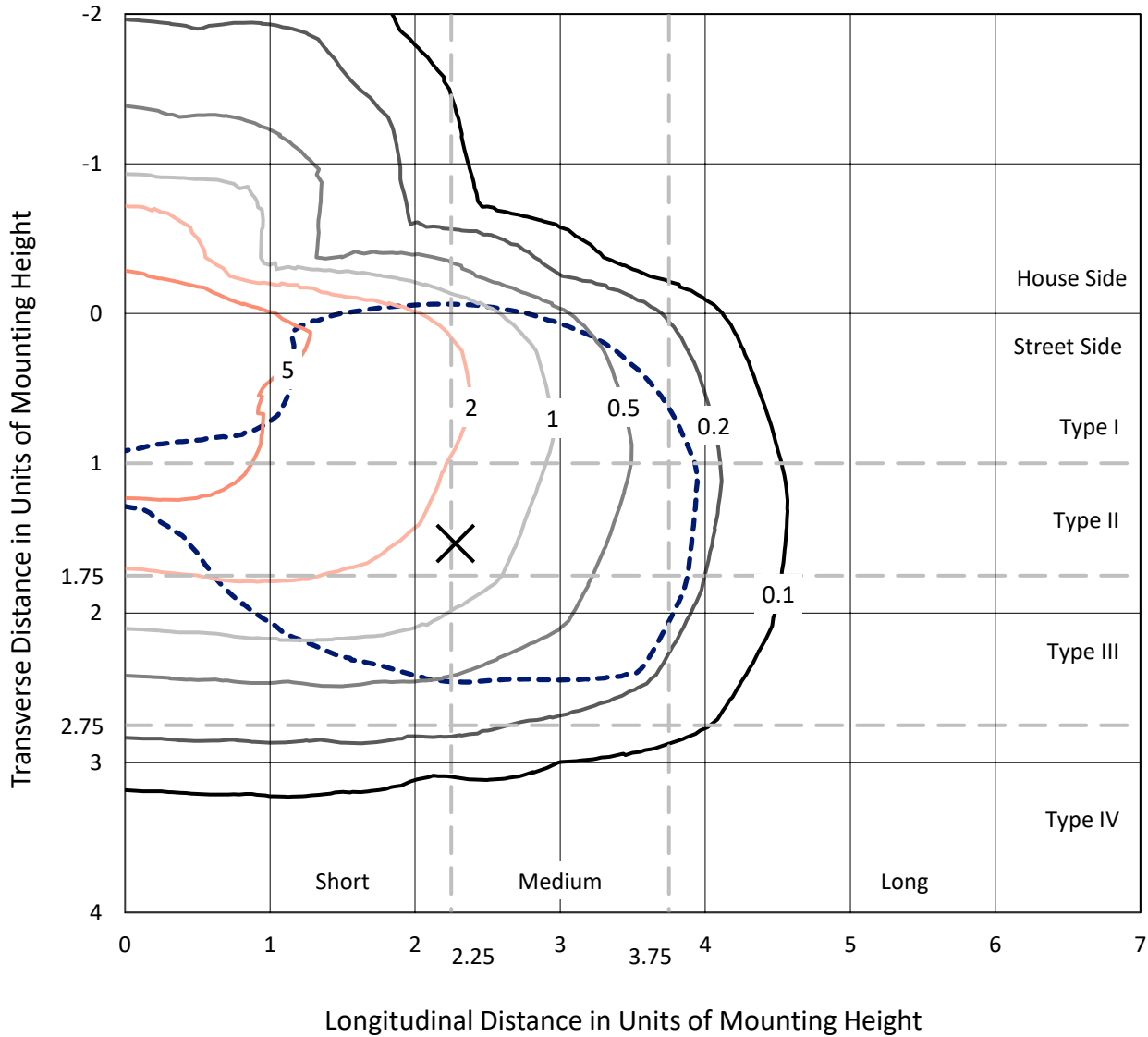
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

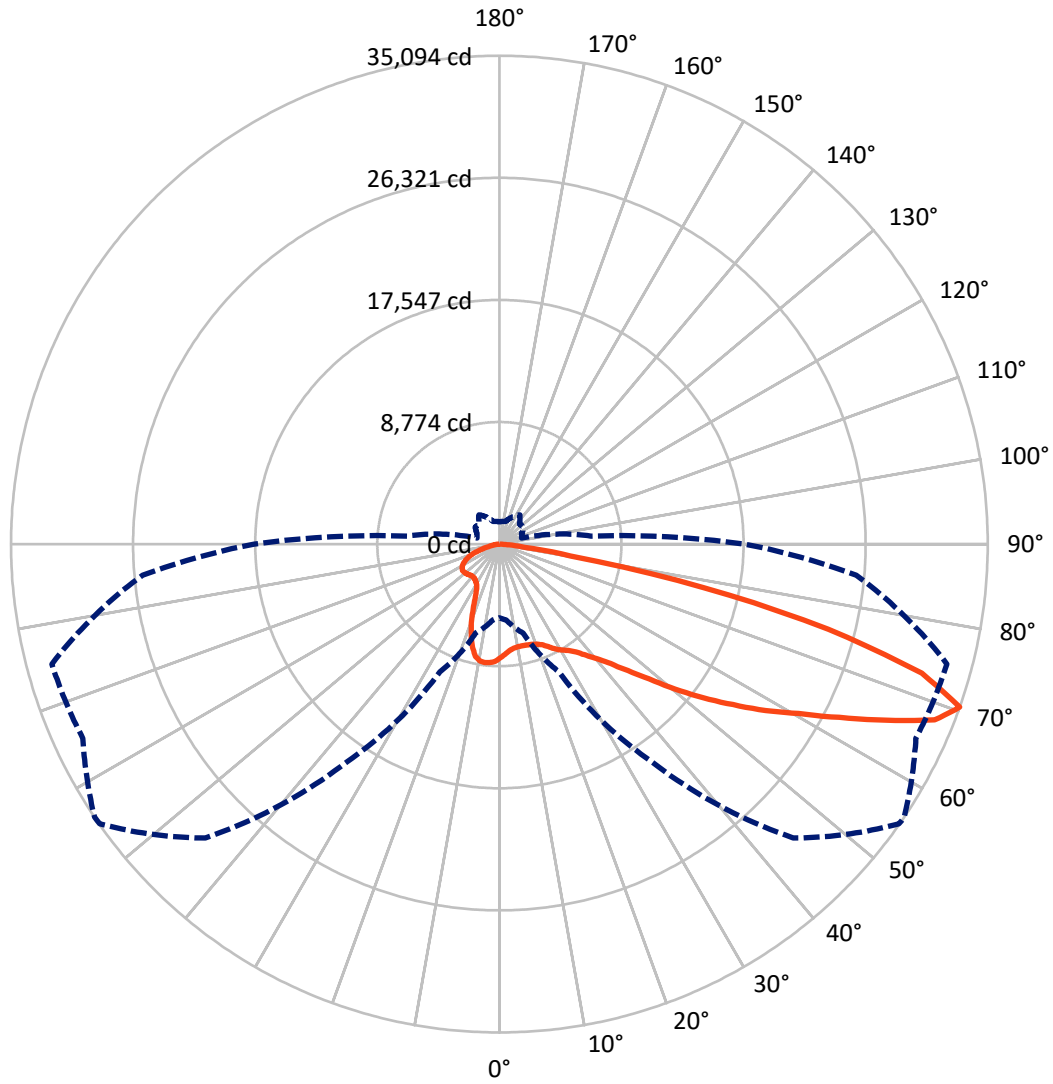
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9727.2	0.0	9727.2
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	40868.8	0.0	40868.8
	% Fixture	80.8	0.0	80.8
Total	Lumens	50596.0	0.0	50596.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	755.8	1.5
10°-20°	2047.8	4.0
20°-30°	3385.5	6.7
30°-40°	5061.8	10.0
40°-50°	7532.6	14.9
50°-60°	10709.2	21.2
60°-70°	13263.7	26.2
70°-80°	7323.8	14.5
80°-90°	515.8	1.0
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°	50596.0	100.0
0°-180°	50596.0	100.0

Coefficient of Utilization



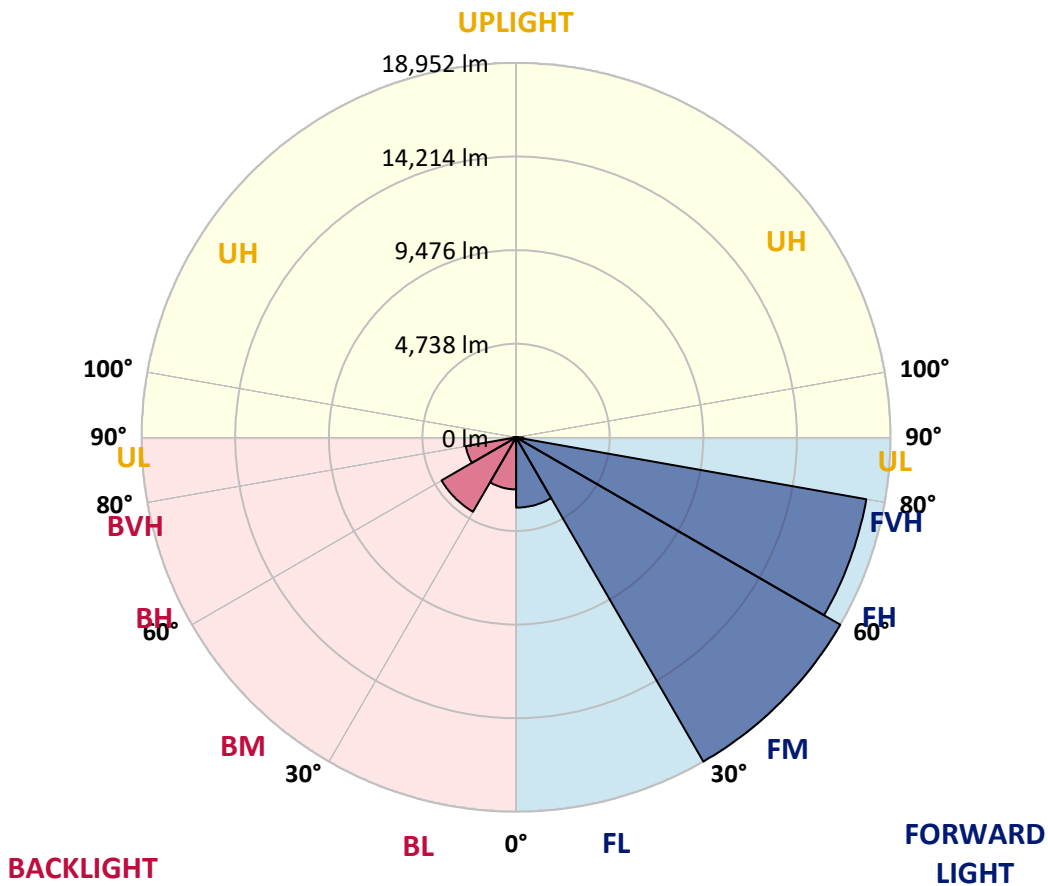
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3555.8	7.0			
FM (30°-60°)	18952.5	37.5			
FH (60°-80°)	18002.1	35.6			G5
FVH (80°-90°)	358.4	0.7			G3/500
BL (0°-30°)	2633.2	5.2	B4/5000		
BM (30°-60°)	4351.2	8.6	B3/5000		
BH (60°-80°)	2585.4	5.1	B4/5000		G4/5000
BVH (80°-90°)	157.4	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	8167.0	8167.0	8167.0	8167.0	8167.0	8167.0	8167.0	8167.0	8167.0	8167.0	8167.0
2.5°	7642.5	7599.7	7649.6	7674.6	7738.8	7831.6	7913.7	7917.2	7960.0	8063.5	8163.4
5°	7296.4	7275.0	7289.3	7364.2	7432.0	7549.7	7674.6	7685.3	7806.6	8010.0	8209.8
7.5°	7028.8	7000.3	7053.8	7150.1	7235.7	7367.8	7531.9	7546.2	7717.4	8024.3	8331.1
10°	6643.5	6622.1	6722.0	6850.4	7035.9	7253.6	7471.2	7489.1	7713.8	8117.0	8545.2
12.5°	6475.8	6475.8	6518.6	6639.9	6843.3	7132.3	7460.5	7489.1	7770.9	8259.7	8819.9
15°	6736.2	6754.1	6718.4	6711.3	6793.3	7068.1	7474.8	7517.6	7878.0	8406.0	9091.1
17.5°	7260.7	7278.6	7185.8	7039.5	6957.4	7128.7	7528.3	7574.7	7992.1	8566.6	9383.6
20°	7995.7	8017.1	7813.7	7589.0	7307.1	7303.5	7631.8	7674.6	8138.4	8741.4	9694.0
22.5°	8855.6	8869.9	8613.0	8256.2	7824.5	7628.2	7810.2	7853.0	8327.5	8984.0	10029.4
25°	9851.0	9893.8	9583.4	9066.1	8480.9	8074.2	8106.3	8156.3	8666.5	9308.7	10425.5
27.5°	10914.3	10967.8	10611.0	10040.1	9233.8	8566.6	8488.1	8530.9	9026.8	9508.5	10636.0
30°	12002.5	12041.7	11684.9	11032.0	10043.7	9123.2	8809.2	8834.2	9183.8	9604.8	10850.0
32.5°	13212.0	13179.9	12837.4	12084.6	10978.5	9790.4	9108.9	9101.8	9358.7	9797.5	11156.9
35°	14346.6	14393.0	14029.1	13197.7	12006.1	10614.6	9558.5	9529.9	9729.7	10111.5	11588.6
37.5°	15720.3	15706.0	15270.7	14371.6	13037.2	11403.1	10190.0	10140.0	10211.4	10600.3	12191.6
40°	16701.4	16801.3	16519.5	15681.0	14243.1	12373.6	10928.5	10817.9	10835.8	11203.3	12997.9
42.5°	17504.2	17597.0	17625.5	17090.3	15623.9	13572.4	11849.1	11738.5	11749.2	12270.1	13989.8
45°	18121.5	18246.4	18649.5	18492.5	17179.5	14956.7	13094.3	12980.1	12987.2	13565.2	15188.6
47.5°	18374.8	18510.4	19327.4	19702.1	18831.5	16612.2	14642.8	14475.1	14500.0	15138.7	16558.7
50°	18292.7	18474.7	19580.8	20633.3	20215.8	18296.3	16494.5	16376.8	16280.4	17208.1	18046.5
52.5°	17586.3	17786.1	19555.8	21225.6	21346.9	19887.6	18406.9	18339.1	18317.7	19405.9	19709.2
55°	15506.2	15841.6	18695.9	21382.6	22231.7	21386.1	20479.9	20365.7	20476.3	21760.8	21389.7
57.5°	14353.7	14603.5	17011.9	21207.7	22956.0	22813.3	22549.3	22560.0	22684.8	24319.0	23427.0
60°	13697.3	13989.8	16077.1	20729.6	23651.8	24547.3	24715.0	24715.0	24939.8	27077.0	25496.4
62.5°	12826.7	13122.8	15202.9	19809.1	24294.0	26588.2	27437.3	27426.6	27515.8	30034.8	27519.4
65°	11060.6	11335.3	13447.5	18357.0	24608.0	28835.9	30530.7	30498.6	30320.2	32667.9	28857.4
67.5°	8031.4	8291.8	10300.6	15595.4	23476.9	30648.4	33716.9	33731.1	32664.3	34327.0	28928.7
70°	5294.8	5473.2	6622.1	10129.3	19091.9	29867.1	35051.3	35094.1	33024.7	33292.3	25746.1
72.5°	3303.9	3428.8	4135.2	6040.5	11281.8	23641.0	31626.1	31743.8	29710.1	29257.0	21154.2
75°	2194.3	2279.9	2750.9	3521.5	5219.9	12794.6	24040.7	24418.9	23812.3	22934.6	14739.1
77.5°	1320.1	1391.5	1751.8	2237.1	2312.0	4998.7	14032.6	15010.2	15095.9	11973.9	6172.5
80°	603.0	685.0	966.9	1277.3	1230.9	1741.1	4948.7	5177.1	6108.3	3803.4	1948.1
82.5°	356.8	392.5	642.2	635.1	524.5	845.6	1780.4	1826.8	1552.0	1391.5	831.3
85°	142.7	167.7	271.2	239.1	192.7	274.7	670.8	702.9	674.3	606.5	306.8
87.5°	0.0	0.0	0.0	0.0	3.6	7.1	60.7	64.2	92.8	167.7	92.8
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°	8167.0	8167.0	8167.0	8167.0	8167.0	8167.0	8167.0	8167.0	8167.0	8167.0	8167.0
2.5°	8227.6	8206.2	8313.3	8395.3	8431.0	8466.7	8434.6	8423.9	8423.9	8352.5	8316.8
5°	8316.8	8327.5	8473.8	8541.6	8541.6	8513.1	8427.4	8366.8	8345.4	8252.6	8227.6
7.5°	8484.5	8530.9	8666.5	8662.9	8563.0	8406.0	8191.9	8027.8	7878.0	7813.7	7774.5
10°	8759.2	8819.9	8912.7	8762.8	8484.5	8070.6	7617.5	7260.7	7046.6	6875.4	6875.4
12.5°	9073.2	9130.3	9112.5	8766.4	8191.9	7417.7	6764.8	6354.5	6054.8	5897.8	5897.8
15°	9387.2	9433.6	9240.9	8602.3	7581.8	6550.7	5837.1	5344.7	5084.3	4938.0	4938.0
17.5°	9704.7	9701.2	9294.4	8224.1	6786.2	5590.9	4891.6	4509.9	4420.7	4395.7	4392.1
20°	10011.6	9929.5	9226.6	7592.5	5862.1	4624.0	4181.6	4206.6	4338.6	4395.7	4402.8
22.5°	10357.7	10154.3	9026.8	6786.2	4813.1	3953.3	3981.8	4188.7	4381.4	4467.0	4477.7
25°	10710.9	10347.0	8691.5	5840.7	3935.4	3707.1	3928.3	4160.2	4377.8	4488.4	4499.1
27.5°	10853.6	10347.0	8120.6	4745.3	3468.0	3603.6	3846.2	4071.0	4299.3	4427.8	4452.8
30°	10971.4	10257.8	7321.4	3757.0	3275.4	3503.7	3714.2	3921.1	4145.9	4302.9	4331.5
32.5°	11135.5	10179.3	6354.5	3157.6	3186.2	3407.4	3553.6	3728.5	3931.8	4035.3	4024.6
35°	11328.2	10058.0	5187.8	2872.2	3111.2	3325.3	3428.8	3532.2	3439.5	3435.9	3446.6
37.5°	11602.9	9950.9	4170.9	2743.7	3061.3	3268.2	3353.8	3132.6	3004.2	2950.7	2929.3
40°	11998.9	9908.1	3289.6	2668.8	3054.1	3264.6	3204.0	2861.5	2686.6	2501.1	2497.5
42.5°	12498.4	9876.0	2718.8	2633.1	3079.1	3346.7	2997.1	2683.1	2322.7	2240.7	2233.5
45°	13140.7	9826.1	2433.3	2626.0	3139.8	3410.9	2975.6	2436.9	2190.7	2155.0	2155.0
47.5°	13914.9	9747.6	2304.9	2626.0	3207.6	3382.4	2911.4	2383.4	2130.0	2169.3	2194.3
50°	14803.3	9647.7	2237.1	2618.9	3275.4	3382.4	2775.8	2372.7	2115.8	2319.1	2401.2
52.5°	15752.4	9533.5	2190.7	2590.3	3321.7	3386.0	2783.0	2408.3	2130.0	2354.8	2422.6
55°	16801.3	9515.6	2126.5	2529.7	3336.0	3293.2	2800.8	2486.8	2151.5	2133.6	2137.2
57.5°	18125.0	9729.7	2080.1	2440.5	3278.9	3104.1	2836.5	2543.9	2126.5	2130.0	2155.0
60°	19509.4	10132.9	2119.3	2354.8	3161.2	2925.7	2861.5	2515.4	2005.2	1948.1	1955.2
62.5°	20686.8	10439.7	2151.5	2315.6	2989.9	2768.7	2836.5	2451.2	1937.4	1923.1	1955.2
65°	21179.2	10186.4	2073.0	2233.5	2740.2	2576.0	2783.0	2369.1	1880.3	1826.8	1830.3
67.5°	20633.3	8998.3	1919.5	2051.6	2458.3	2329.9	2697.3	2262.1	1801.8	1737.6	1723.3
70°	17625.5	6611.4	1655.5	1762.6	2115.8	2040.9	2565.3	2122.9	1676.9	1630.5	1598.4
72.5°	14203.9	4681.1	1373.6	1402.2	1659.1	1719.7	2337.0	1948.1	1534.2	1402.2	1355.8
75°	9886.7	2940.0	1145.3	1116.8	1198.8	1313.0	1823.2	1616.3	1323.7	1184.5	1141.7
77.5°	4253.0	1509.2	895.5	881.3	799.2	909.8	1398.6	1348.7	1109.6	949.1	924.1
80°	1423.6	874.1	645.8	620.8	531.6	638.7	984.7	1077.5	870.6	702.9	660.1
82.5°	713.6	506.6	410.3	371.1	356.8	403.2	581.6	670.8	603.0	485.2	410.3
85°	349.7	289.0	224.8	221.2	185.5	174.8	242.6	285.4	271.2	199.8	189.1
87.5°	128.4	114.2	71.4	57.1	35.7	25.0	14.3	14.3	10.7	10.7	10.7
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)