

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: P640815

Luminaire Tested: GWS-SA5E-750-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640815
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-SA5E-750-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37091.9 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

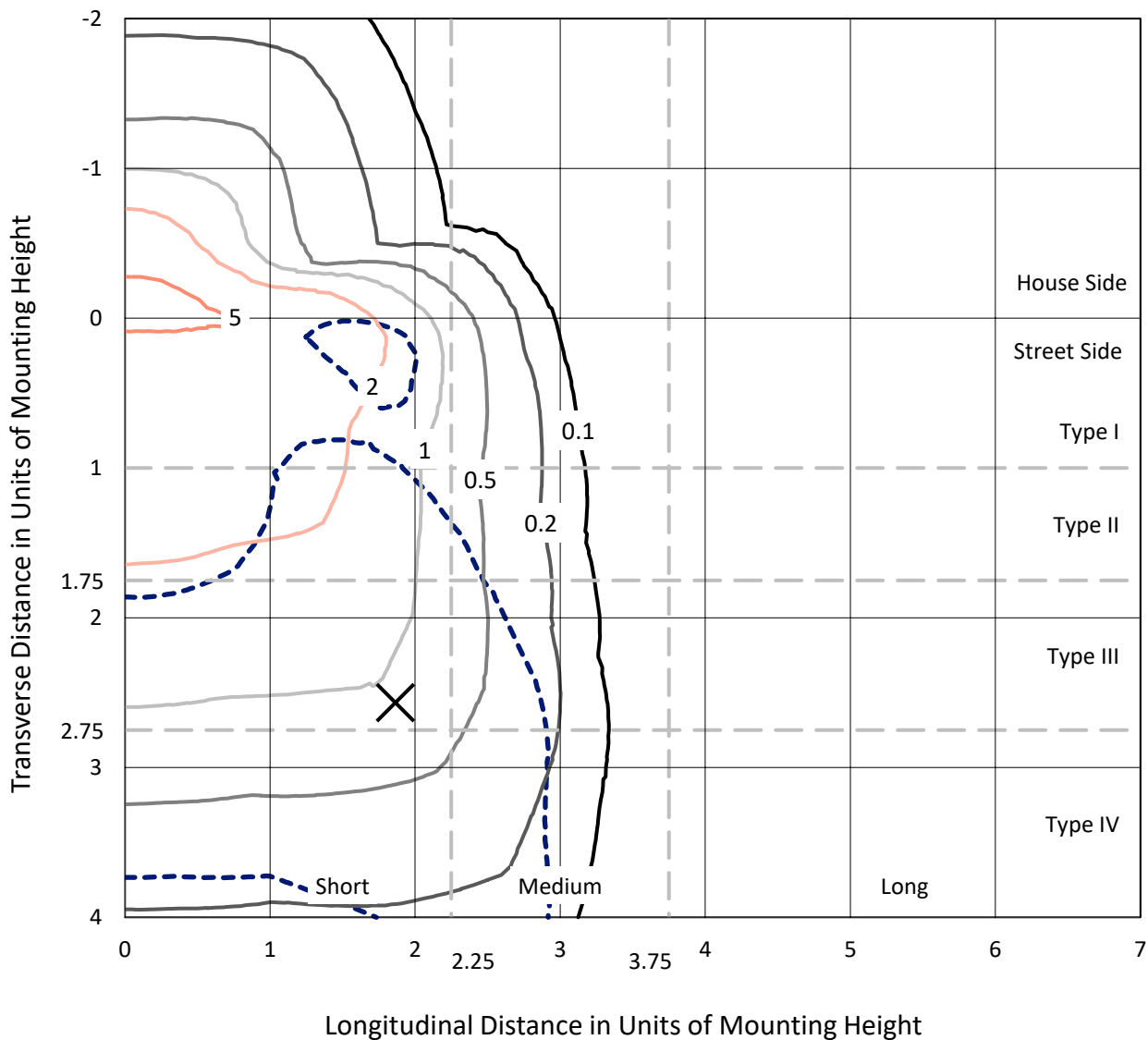
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

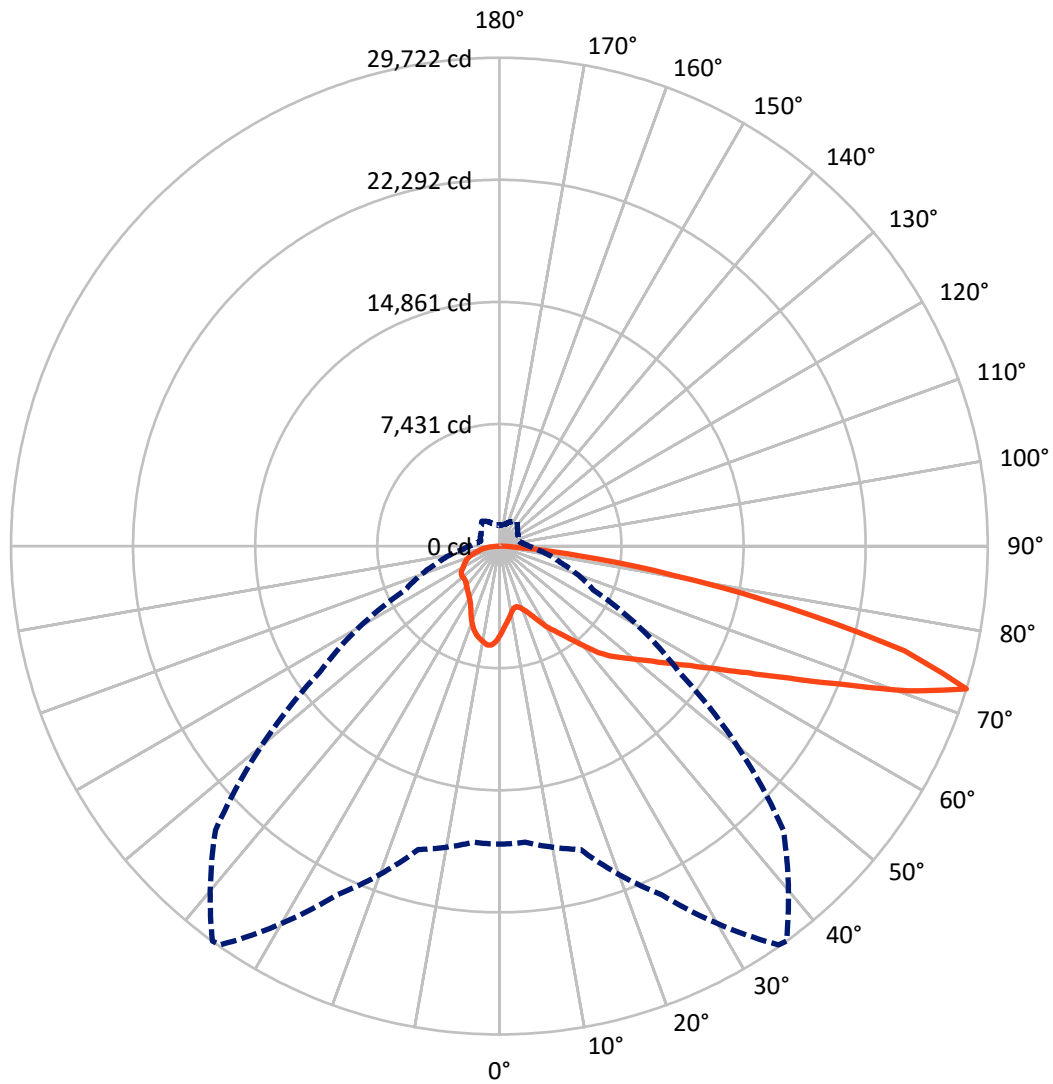
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.4 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
House Side	Lumens	8551.3	0.0	8551.3
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	28540.6	0.0	28540.6
	% Fixture	76.9	0.0	76.9
Total	Lumens	37091.9	0.0	37091.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	507.4	1.4
10°-20°	1431.6	3.9
20°-30°	2371.0	6.4
30°-40°	3550.7	9.6
40°-50°	5180.2	14.0
50°-60°	7373.0	19.9
60°-70°	9315.3	25.1
70°-80°	6637.9	17.9
80°-90°	724.6	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°	37091.9	100.0
0°-180°	37091.9	100.0

Coefficient of Utilization



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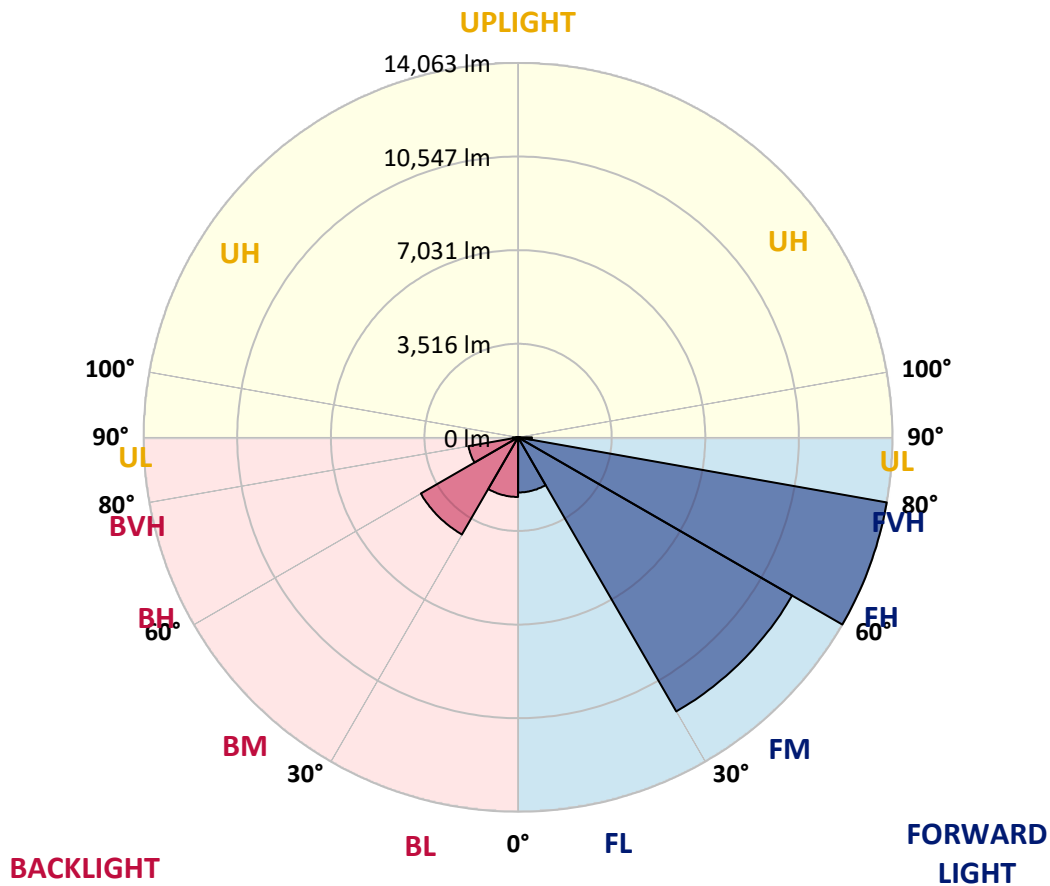
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2070.7	5.6			
FM (30°-60°)	11887.0	32.0			
FH (60°-80°)	14062.8	37.9			G5
FVH (80°-90°)	520.1	1.4			G4/750
BL (0°-30°)	2239.3	6.0	B3/2500		
BM (30°-60°)	4217.0	11.4	B3/5000		
BH (60°-80°)	1890.5	5.1	B3/2500		G3/2500
BVH (80°-90°)	204.5	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6
2.5°	4952.3	4944.1	4927.6	4977.1	5026.7	5021.1	5090.0	5156.0	5227.6	5301.9	5401.0
5°	4555.9	4550.4	4536.7	4611.0	4685.3	4682.6	4795.4	4902.8	5048.7	5208.3	5406.5
7.5°	4159.5	4145.8	4165.0	4258.6	4363.2	4374.2	4528.4	4704.6	4916.5	5156.0	5436.8
10°	3809.9	3807.2	3815.4	3920.0	4076.9	4087.9	4286.1	4531.1	4811.9	5131.3	5505.6
12.5°	3719.1	3713.6	3691.5	3743.8	3862.2	3878.7	4096.2	4396.3	4740.4	5145.0	5599.2
15°	3867.7	3854.0	3776.9	3752.1	3809.9	3823.7	4008.1	4316.4	4699.1	5169.8	5717.6
17.5°	4123.7	4115.5	3969.6	3867.7	3906.3	3917.3	4054.9	4302.7	4688.1	5219.4	5863.5
20°	4498.1	4462.3	4233.8	4079.7	4079.7	4096.2	4178.8	4363.2	4701.8	5279.9	6028.7
22.5°	4993.6	4922.0	4600.0	4390.8	4335.7	4357.7	4393.5	4514.6	4759.6	5381.8	6235.1
25°	5549.7	5483.6	5101.0	4806.4	4729.3	4737.6	4707.3	4729.3	4886.3	5522.2	6491.2
27.5°	6141.5	6097.5	5690.1	5315.7	5194.6	5194.6	5087.2	5034.9	5062.4	5681.8	6777.4
30°	6670.1	6609.5	6265.4	5855.3	5695.6	5695.6	5491.9	5379.0	5312.9	5877.3	7160.1
32.5°	6948.1	6912.3	6683.9	6370.0	6174.6	6144.3	5968.1	5836.0	5681.8	6166.3	7677.6
35°	7311.5	7303.2	7165.6	6920.6	6672.8	6628.8	6507.7	6403.1	6136.0	6526.9	8365.8
37.5°	7768.5	7754.7	7732.7	7586.8	7289.5	7281.2	7173.9	7047.2	6700.4	7047.2	9199.9
40°	8280.5	8255.7	8228.2	8225.4	8046.5	8016.2	8008.0	7864.8	7380.3	7674.9	10069.8
42.5°	8985.2	8899.9	8641.1	8756.7	8888.9	8861.3	8965.9	8751.2	8228.2	8420.9	10892.9
45°	9852.4	9643.1	9131.1	9164.1	9497.2	9552.3	9915.7	9863.4	9161.4	9282.5	11760.1
47.5°	10372.6	10190.9	9714.7	9687.2	10102.9	10171.7	10961.7	11060.8	10166.2	10320.3	12830.9
50°	10799.3	10672.7	10281.8	10320.3	10760.8	10829.6	11999.6	12211.5	11113.1	11382.9	14075.2
52.5°	11314.1	11132.4	10829.6	11011.3	11550.8	11633.4	13153.0	13381.5	11966.5	12550.1	15363.5
55°	11603.1	11528.8	11534.3	11812.4	12489.6	12602.4	14361.5	14322.9	12748.3	13549.4	16332.5
57.5°	12269.3	12241.8	12495.1	12599.7	13585.2	13731.1	15570.0	15239.6	13458.5	14322.9	16797.7
60°	13444.8	13376.0	13596.2	13755.9	14939.6	15146.0	16918.8	16137.0	13940.3	14898.3	16640.8
62.5°	15096.5	15011.1	15019.4	15272.7	16753.7	16971.1	18419.1	16885.8	14088.9	14986.4	15647.0
65°	17150.1	17026.2	16885.8	17229.9	19162.4	19344.1	20051.6	17430.9	13733.8	14138.5	13571.4
67.5°	19316.6	19214.7	19049.5	19770.8	22281.3	22391.5	21882.2	17384.1	12607.9	11870.2	9519.3
70°	19443.2	19468.0	20249.8	22859.4	26352.8	26380.3	23613.7	16442.6	10210.2	7694.1	4743.1
72.5°	18138.3	18097.1	19115.6	23423.8	29628.6	29722.2	24431.3	13320.9	6309.5	3837.4	2224.3
75°	14733.1	14804.7	15875.5	20494.8	25394.8	25477.4	19916.7	7853.8	2997.8	1877.4	1423.2
77.5°	6342.5	6741.7	8853.1	14438.6	18187.9	17931.9	10265.3	3182.3	1599.4	1337.9	1090.1
80°	1830.6	1987.5	3154.7	6865.5	10898.4	10705.7	4063.2	1192.0	1114.9	1004.8	781.8
82.5°	591.9	655.2	1156.2	2733.6	4883.5	4878.0	1541.6	704.7	729.5	682.7	503.8
85°	165.2	189.9	355.1	828.6	1511.3	1481.0	446.0	333.1	388.1	393.7	250.5
87.5°	0.0	0.0	2.8	5.5	5.5	5.5	11.0	49.6	112.9	143.1	101.9
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°	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6	5428.6
2.5°	5461.6	5453.3	5566.2	5654.3	5736.9	5791.9	5808.5	5819.5	5841.5	5852.5	5841.5
5°	5500.1	5541.4	5728.6	5866.3	5976.4	6042.4	6045.2	6039.7	6056.2	6042.4	6034.2
7.5°	5582.7	5662.6	5899.3	6045.2	6116.8	6119.5	6053.5	5976.4	5937.8	5904.8	5893.8
10°	5692.8	5811.2	6070.0	6166.3	6144.3	6042.4	5896.5	5775.4	5706.6	5657.0	5646.0
12.5°	5844.2	5976.4	6221.4	6218.6	6081.0	5899.3	5728.6	5582.7	5483.6	5425.8	5406.5
15°	5987.4	6155.3	6331.5	6202.1	5984.6	5764.4	5544.2	5348.7	5216.6	5125.8	5109.2
17.5°	6163.6	6342.5	6411.3	6149.8	5863.5	5580.0	5285.4	5029.4	4850.5	4743.1	4734.9
20°	6367.3	6526.9	6449.9	6059.0	5706.6	5335.0	4935.8	4649.5	4456.8	4352.2	4360.5
22.5°	6604.0	6719.6	6460.9	5935.1	5489.1	4988.1	4542.2	4266.9	4137.5	4082.4	4085.2
25°	6857.3	6931.6	6441.6	5767.2	5156.0	4564.2	4137.5	4010.9	3999.9	3986.1	3991.6
27.5°	7157.3	7140.8	6383.8	5530.4	4707.3	4071.4	3854.0	3887.0	3931.0	3925.5	3931.0
30°	7559.3	7402.3	6309.5	5202.8	4173.3	3658.5	3686.0	3779.6	3837.4	3842.9	3859.5
32.5°	8019.0	7691.4	6191.1	4756.9	3664.0	3427.3	3529.1	3642.0	3710.8	3724.6	3746.6
35°	8566.8	8021.7	5981.9	4200.8	3297.9	3289.6	3383.2	3460.3	3534.6	3540.1	3540.1
37.5°	9197.2	8352.1	5648.8	3586.9	3072.1	3171.3	3259.3	3275.9	3295.1	3278.6	3286.9
40°	9775.3	8671.4	5175.3	3028.1	2887.7	3066.6	3141.0	3085.9	3025.4	2984.1	2992.3
42.5°	10259.8	8888.9	4547.7	2637.2	2700.5	2973.0	3030.9	2918.0	2799.6	2722.5	2733.6
45°	10804.8	9089.8	3809.9	2372.9	2540.9	2907.0	2945.5	2799.6	2648.2	2532.6	2516.1
47.5°	11556.3	9500.0	3154.7	2188.5	2428.0	2871.2	2934.5	2736.3	2538.1	2364.7	2345.4
50°	12484.0	10080.8	2606.9	2067.4	2375.7	2851.9	2931.8	2667.5	2430.7	2227.0	2213.3
52.5°	13497.1	10647.9	2202.3	1973.8	2323.4	2794.1	2918.0	2590.4	2317.9	2097.7	2081.1
55°	14171.5	10870.9	1929.7	1885.7	2238.0	2703.3	2862.9	2516.1	2147.2	1946.2	1921.5
57.5°	14369.7	10584.6	1739.8	1805.9	2127.9	2576.6	2758.3	2359.2	2042.6	1882.9	1863.7
60°	14028.4	9863.4	1621.4	1739.8	2006.8	2414.2	2576.6	2268.3	1960.0	1816.9	1803.1
62.5°	13064.9	8751.2	1530.6	1671.0	1882.9	2243.6	2461.0	2158.2	1869.2	1756.3	1737.0
65°	11126.9	7176.6	1456.2	1599.4	1764.6	2081.1	2334.4	2048.1	1770.1	1684.7	1662.7
67.5°	7782.2	5040.4	1376.4	1514.1	1646.2	1924.2	2202.3	1946.2	1668.2	1604.9	1582.9
70°	3804.4	2673.0	1280.1	1415.0	1519.6	1764.6	2070.1	1822.4	1533.3	1497.5	1467.3
72.5°	1811.4	1494.8	1167.2	1280.1	1346.1	1552.6	1849.9	1643.4	1373.7	1296.6	1244.3
75°	1214.0	1062.6	1018.5	1120.4	1136.9	1302.1	1585.6	1417.7	1211.2	1123.2	1079.1
77.5°	919.4	812.1	856.1	947.0	913.9	1070.8	1304.8	1263.5	1092.9	1013.0	991.0
80°	646.9	591.9	679.9	735.0	710.2	911.2	1175.5	1081.9	900.2	812.1	795.6
82.5°	407.4	396.4	501.0	509.3	517.5	721.2	966.2	850.6	699.2	575.3	534.0
85°	203.7	225.7	300.1	300.1	297.3	371.6	550.6	479.0	377.1	300.1	291.8
87.5°	68.8	96.3	129.4	104.6	79.8	63.3	71.6	88.1	93.6	90.8	90.8
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)