

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: P638311

Luminaire Tested: GWS-SA4E-750-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638311
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-750-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30672.2 lumens
Efficiency: N/A
Efficacy: 151.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

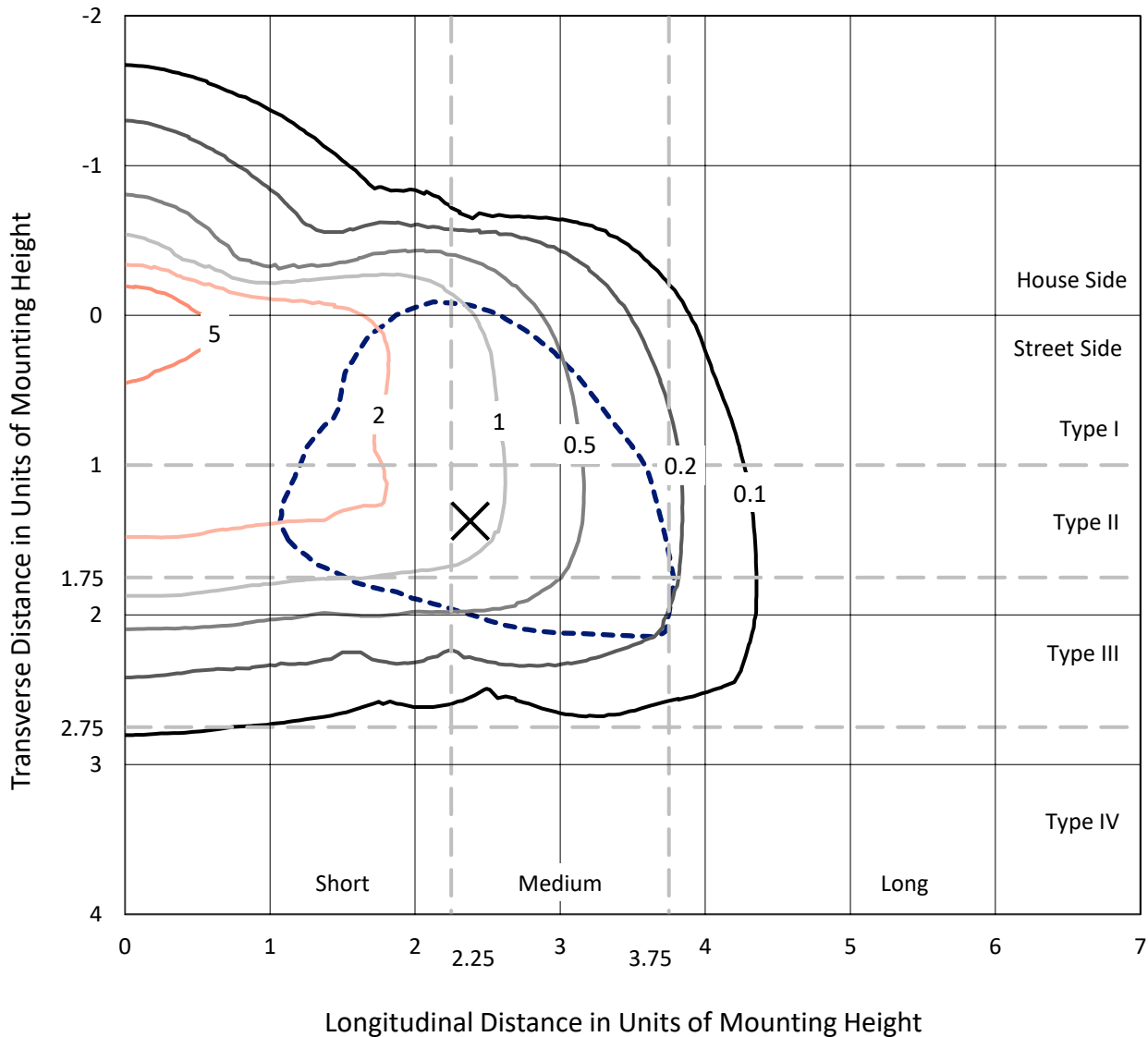
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

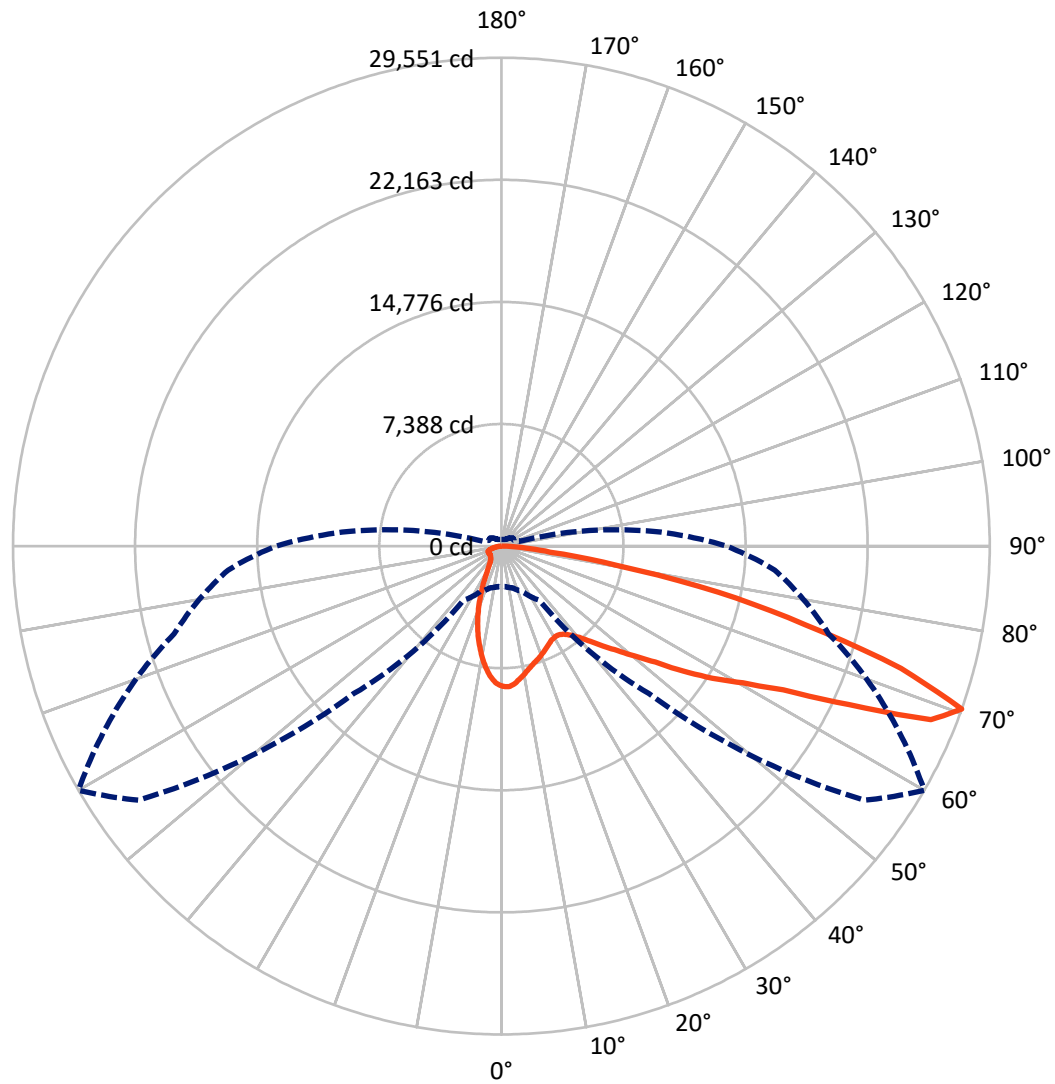
✕ Max cd
 - - - 1/2 Max cd



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 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5245.7	0.0	5245.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	25426.5	0.0	25426.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	30672.2	0.0	30672.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	731.6	2.4
10°-20°	1639.0	5.3
20°-30°	2099.0	6.8
30°-40°	2758.6	9.0
40°-50°	4002.2	13.0
50°-60°	6244.4	20.4
60°-70°	8175.2	26.7
70°-80°	4520.6	14.7
80°-90°	501.7	1.6
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°	30672.2	100.0
0°-180°	30672.2	100.0

Coefficient of Utilization



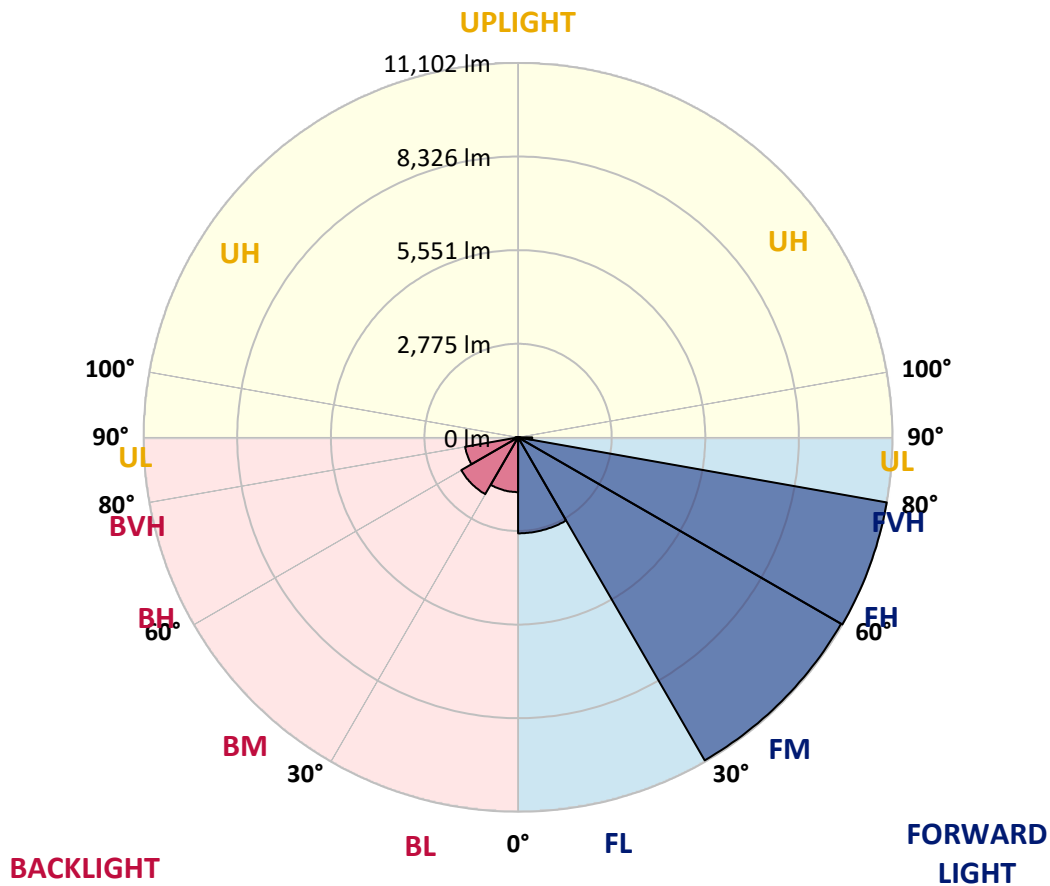
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2846.6	9.3			
FM (30°-60°)	11060.3	36.1			
FH (60°-80°)	11101.6	36.2			G4/12000
FVH (80°-90°)	418.0	1.4			G3/500
BL (0°-30°)	1623.0	5.3	B3/2500		
BM (30°-60°)	1944.9	6.3	B2/2500		
BH (60°-80°)	1594.1	5.2	B3/2500		G3/2500
BVH (80°-90°)	83.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8487.4	8487.4	8487.4	8487.4	8487.4	8487.4	8487.4	8487.4	8487.4	8487.4	8487.4
2.5°	8368.5	8377.4	8402.1	8438.0	8473.9	8491.9	8536.8	8523.3	8514.3	8496.4	8473.9
5°	7998.2	8016.1	8038.6	8108.1	8186.7	8249.5	8350.5	8361.7	8366.2	8375.2	8339.3
7.5°	7526.9	7531.4	7585.2	7677.3	7780.5	7888.2	8056.5	8103.6	8144.0	8188.9	8159.7
10°	7006.3	7017.5	7057.9	7190.3	7367.6	7526.9	7753.6	7832.1	7917.4	8016.1	7975.7
12.5°	6579.9	6582.1	6647.2	6788.6	6981.6	7197.0	7479.8	7574.0	7686.2	7841.1	7805.2
15°	6241.0	6241.0	6301.6	6422.8	6644.9	6898.5	7235.2	7356.3	7508.9	7717.6	7654.8
17.5°	5971.7	5973.9	6012.1	6140.0	6337.5	6618.0	7017.5	7181.3	7349.6	7625.6	7531.4
20°	5830.3	5819.1	5825.8	5904.4	6072.7	6344.2	6799.8	6990.5	7217.2	7562.8	7419.2
22.5°	5823.6	5803.4	5774.2	5780.9	5879.7	6104.1	6566.4	6797.5	7082.6	7511.2	7304.7
25°	5938.0	5915.6	5864.0	5805.6	5796.7	5931.3	6346.5	6609.0	6943.4	7488.7	7194.8
27.5°	6131.0	6115.3	6048.0	5960.5	5868.5	5864.0	6180.4	6454.2	6842.4	7511.2	7116.2
30°	6386.9	6359.9	6317.3	6205.1	6066.0	5922.3	6115.3	6371.2	6775.1	7583.0	7082.6
32.5°	6676.4	6660.7	6620.3	6508.0	6359.9	6131.0	6166.9	6389.1	6775.1	7708.7	7089.3
35°	6983.8	6981.6	6981.6	6907.5	6743.7	6458.7	6371.2	6541.7	6878.3	7910.6	7161.1
37.5°	7282.3	7280.0	7351.9	7378.8	7192.5	6885.1	6719.0	6846.9	7105.0	8209.1	7338.4
40°	7524.7	7533.6	7690.7	7825.4	7722.1	7437.1	7203.7	7268.8	7473.0	8633.3	7648.1
42.5°	7769.3	7794.0	8029.6	8267.5	8307.9	8061.0	7825.4	7863.5	8000.4	9194.3	8110.4
45°	8036.3	8047.5	8377.4	8709.6	8904.8	8758.9	8565.9	8617.6	8649.0	9887.7	8799.3
47.5°	8294.4	8323.6	8750.0	9205.5	9575.8	9562.3	9454.6	9438.9	9445.6	10731.5	9614.0
50°	8646.7	8689.4	9189.8	9739.6	10282.7	10531.8	10563.2	10444.3	10394.9	11669.6	10628.3
52.5°	9315.5	9315.5	9764.3	10305.2	11034.5	11651.7	11862.6	11667.4	11510.3	12661.5	11705.5
55°	10152.6	10188.5	10545.3	10982.9	11907.5	12829.8	13543.5	13328.0	12883.7	13741.0	12834.3
57.5°	10525.1	10570.0	11135.5	11815.5	13049.8	14169.6	15159.3	15083.0	14434.4	14863.0	14005.8
60°	9851.8	9946.1	10724.8	11864.8	14084.3	16330.7	17028.6	16806.5	15879.6	16041.2	15276.0
62.5°	8218.1	8321.3	9185.3	10776.4	13940.7	18666.9	19975.2	19156.1	17683.9	17529.1	16968.1
65°	4903.5	4899.0	5938.0	8047.5	12170.1	19315.4	24638.6	23110.3	20471.2	19571.3	18709.5
67.5°	3117.1	3110.4	3328.1	4263.9	8099.2	17726.6	27636.8	28034.0	24257.1	21072.6	18853.1
70°	2459.6	2457.3	2614.4	3040.8	4005.8	12614.4	26801.9	29551.0	26543.9	20500.4	16600.0
72.5°	1793.1	1797.6	2039.9	2547.1	3090.2	6333.0	21703.2	25284.9	24414.2	18096.9	13476.2
75°	1288.1	1294.9	1440.7	1950.2	2850.1	3462.7	14432.2	19012.5	18574.9	14506.2	9270.6
77.5°	819.1	828.1	956.0	1366.7	2302.5	2796.2	8750.0	13422.3	12358.6	8173.2	3296.7
80°	500.4	529.6	637.3	1018.8	1840.2	2098.3	4373.9	7071.3	6189.4	2241.9	1108.6
82.5°	258.1	280.5	383.8	630.6	1267.9	1842.5	2475.3	2971.3	1916.5	938.1	590.2
85°	80.8	94.3	134.6	255.8	603.7	1142.3	1638.2	1476.7	879.7	442.1	273.8
87.5°	20.2	20.2	22.4	22.4	24.7	51.6	316.4	334.4	233.4	139.1	112.2
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°	8487.4	8487.4	8487.4	8487.4	8487.4	8487.4	8487.4	8487.4	8487.4	8487.4	8487.4
2.5°	8429.0	8375.2	8352.7	8350.5	8294.4	8213.6	8159.7	8121.6	8099.2	8094.7	8094.7
5°	8278.7	8209.1	8117.1	8047.5	7897.2	7744.6	7616.7	7544.8	7461.8	7450.6	7448.4
7.5°	8079.0	7978.0	7802.9	7607.7	7345.1	7091.5	6876.1	6730.2	6584.4	6557.4	6548.4
10°	7863.5	7726.6	7428.2	7084.8	6692.1	6312.8	5982.9	5724.8	5554.3	5433.1	5410.7
12.5°	7650.3	7468.5	7030.9	6519.3	5980.7	5462.3	4966.3	4544.4	4239.2	4061.9	4030.5
15°	7450.6	7197.0	6597.8	5944.8	5244.6	4535.4	3833.0	3285.4	2856.8	2704.2	2668.3
17.5°	7268.8	6952.4	6178.2	5350.1	4477.1	3550.3	2751.3	2264.4	2013.0	1936.7	1918.8
20°	7087.0	6701.0	5751.8	4723.9	3662.5	2623.4	2010.8	1781.9	1687.6	1658.4	1649.5
22.5°	6891.8	6425.0	5287.2	4106.8	2838.9	1963.6	1645.0	1544.0	1514.8	1517.0	1514.8
25°	6696.6	6144.5	4800.2	3435.8	2114.0	1593.4	1436.3	1398.1	1404.8	1425.0	1429.5
27.5°	6535.0	5895.4	4322.2	2699.7	1651.7	1371.2	1297.1	1294.9	1319.6	1346.5	1351.0
30°	6418.3	5673.2	3851.0	2075.8	1360.0	1218.6	1189.4	1202.9	1232.0	1252.2	1259.0
32.5°	6335.2	5482.5	3348.3	1631.5	1191.6	1110.9	1097.4	1110.9	1128.8	1149.0	1153.5
35°	6306.1	5343.3	2854.6	1330.8	1077.2	1032.3	1023.3	1030.1	1039.0	1050.3	1054.8
37.5°	6371.2	5273.8	2338.4	1158.0	1007.6	980.7	967.2	962.7	965.0	969.5	971.7
40°	6564.2	5305.2	1916.5	1057.0	962.7	938.1	915.6	906.6	904.4	908.9	906.6
42.5°	6896.3	5437.6	1611.3	998.6	926.8	890.9	866.2	857.3	857.3	868.5	868.5
45°	7383.3	5697.9	1391.4	956.0	895.4	850.5	823.6	819.1	828.1	846.0	848.3
47.5°	8096.9	6079.4	1259.0	924.6	866.2	814.6	787.7	785.5	803.4	832.6	834.8
50°	8943.0	6629.2	1187.2	902.2	846.0	785.5	758.5	760.8	781.0	812.4	819.1
52.5°	9961.8	7378.8	1191.6	893.2	834.8	767.5	740.6	736.1	756.3	787.7	794.4
55°	11014.3	8289.9	1279.2	895.4	819.1	758.5	722.6	706.9	724.9	747.3	749.5
57.5°	12172.3	9317.7	1496.9	890.9	798.9	749.5	706.9	671.0	682.2	695.7	702.4
60°	13478.4	10527.3	1965.9	899.9	789.9	729.4	675.5	628.4	626.1	635.1	637.3
62.5°	15224.3	12172.3	2493.3	915.6	810.1	704.7	628.4	579.0	570.0	574.5	576.7
65°	16559.6	12957.8	2327.2	902.2	852.8	686.7	583.5	531.9	513.9	509.4	509.4
67.5°	16016.5	11918.7	1620.3	866.2	873.0	689.0	547.6	482.5	460.1	448.8	446.6
70°	13628.8	9681.3	1126.6	830.3	850.5	684.5	509.4	442.1	412.9	397.2	395.0
72.5°	10767.5	7392.2	911.1	758.5	772.0	617.1	453.3	397.2	372.5	352.3	352.3
75°	6930.0	4510.8	760.8	675.5	630.6	480.2	392.7	354.6	329.9	309.7	309.7
77.5°	2331.7	1674.1	590.2	572.3	471.3	361.3	329.9	305.2	285.0	267.1	264.8
80°	947.0	794.4	433.1	433.1	329.9	276.0	258.1	246.9	233.4	211.0	211.0
82.5°	549.8	482.5	303.0	262.6	219.9	190.8	179.5	168.3	168.3	152.6	152.6
85°	264.8	267.1	181.8	161.6	125.7	110.0	105.5	98.7	96.5	87.5	85.3
87.5°	143.6	145.9	92.0	71.8	49.4	42.6	35.9	33.7	31.4	29.2	29.2
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)