

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: P640800

Luminaire Tested: GWS-SA5E-750-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640800
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-22)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-750-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28764.5 lumens
Efficiency: N/A
Efficacy: 106.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

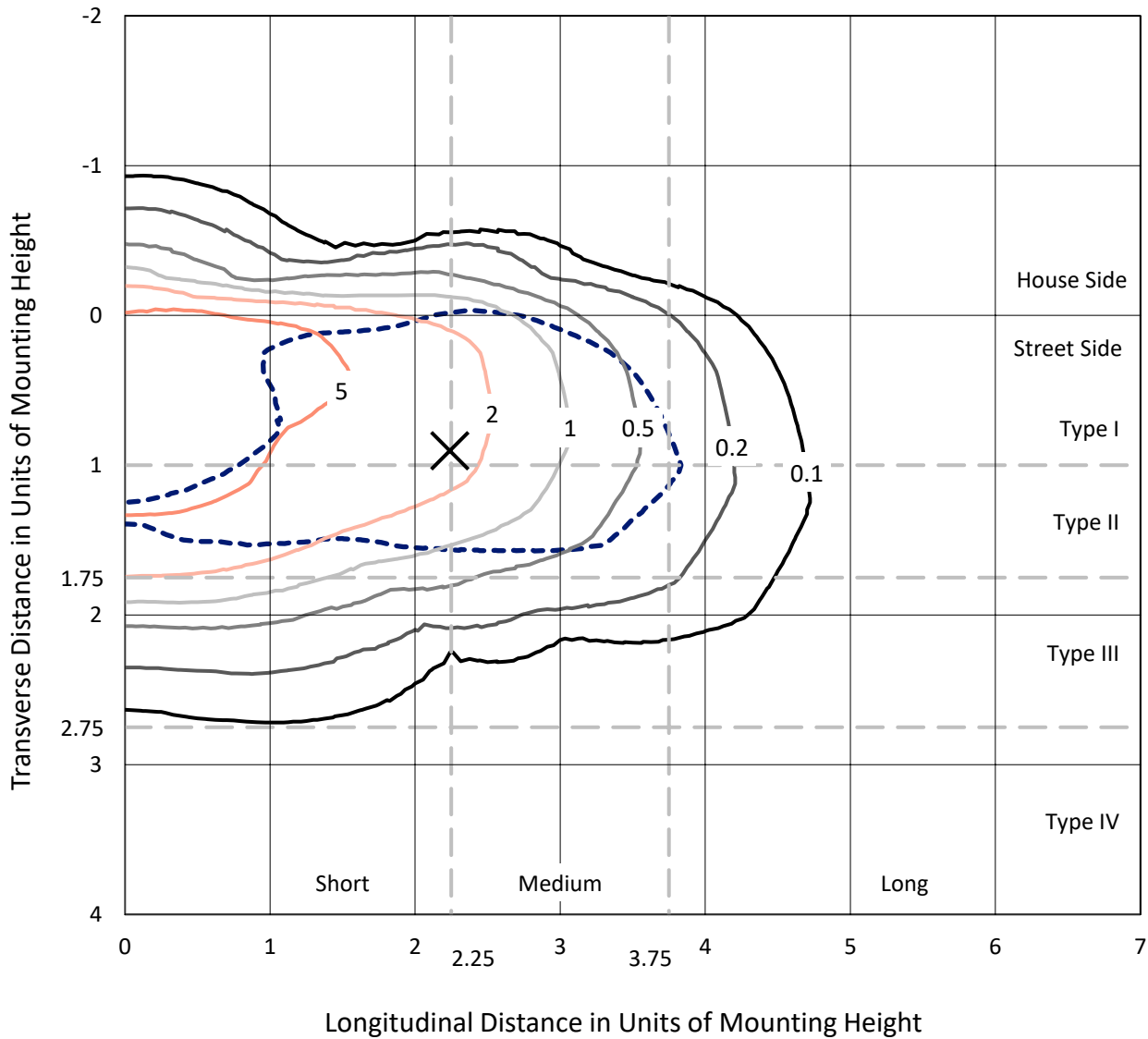
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640800
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Iso-Footcandle Lines of Horizontal Illumination

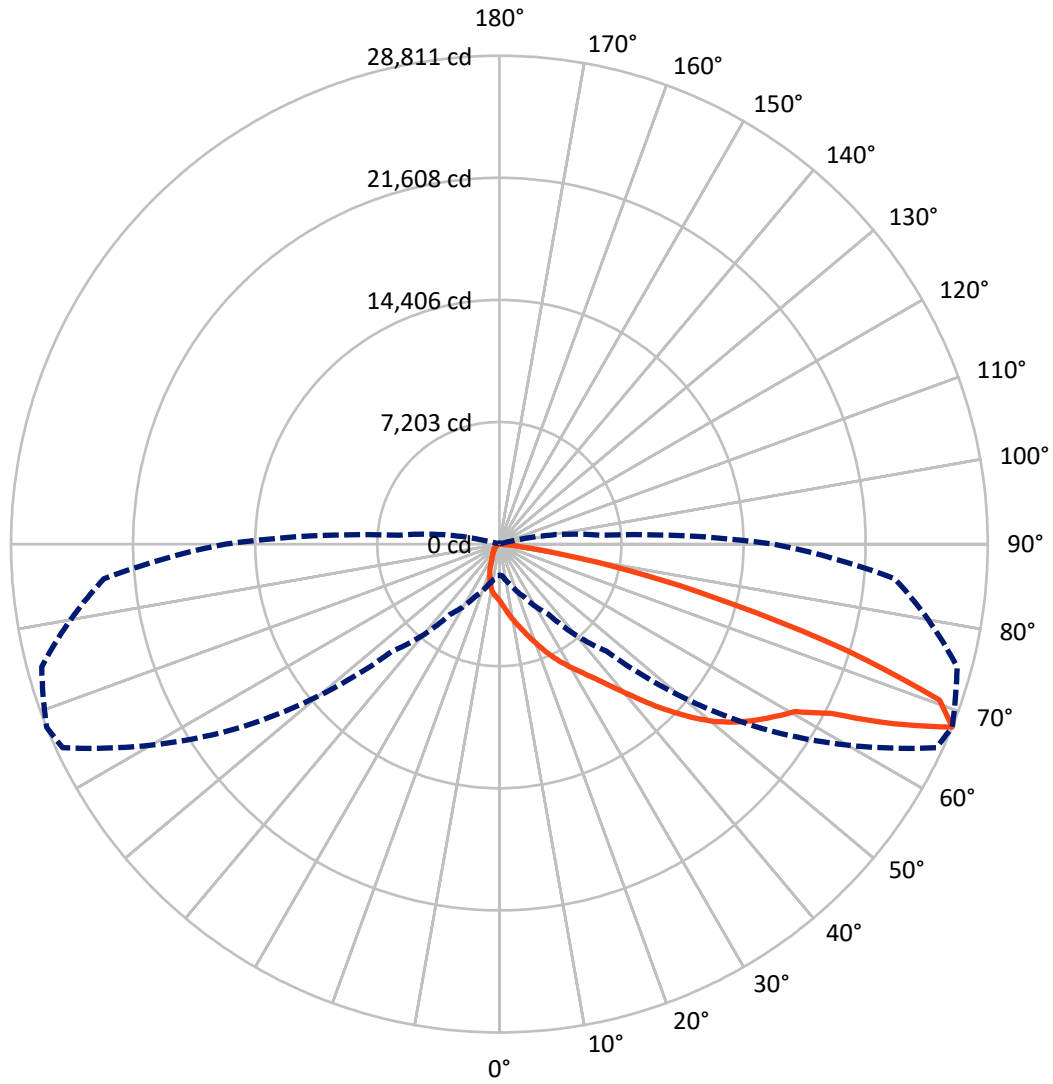
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Short - N/A

REPORT NUMBER: P640800
CATALOG NUMBER: GWS-SA5E-750-U-T2-W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 68-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P640800

CATALOG NUMBER: GWS-SA5E-750-U-T2-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2077.2	0.0	2077.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	26687.4	0.0	26687.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	28764.5	0.0	28764.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	326.5	1.1
10°-20°	937.6	3.3
20°-30°	1611.2	5.6
30°-40°	2801.2	9.7
40°-50°	4887.9	17.0
50°-60°	7372.1	25.6
60°-70°	7392.3	25.7
70°-80°	3261.5	11.3
80°-90°	174.2	0.6
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°	28764.5	100.0
0°-180°	28764.5	100.0

Coefficient of Utilization



REPORT NUMBER: P640800

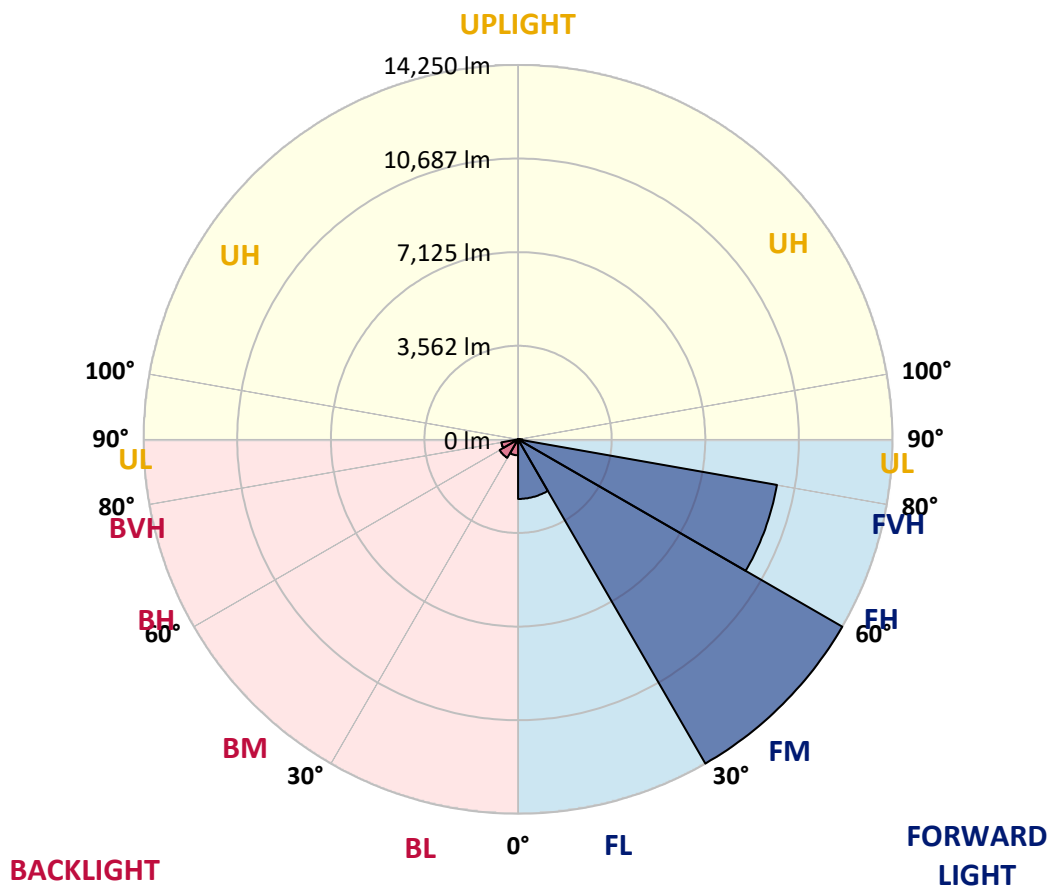
CATALOG NUMBER: GWS-SA5E-750-U-T2-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2267.5	7.9			
FM (30°-60°)	14249.9	49.5			
FH (60°-80°)	10005.6	34.8			G4/12000
FVH (80°-90°)	164.4	0.6			G2/225
BL (0°-30°)	607.7	2.1	B2/1000		
BM (30°-60°)	811.4	2.8	B1/1000		
BH (60°-80°)	648.2	2.3	B2/1000		G2/1000
BVH (80°-90°)	9.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





REPORT NUMBER: P640800

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	3347.5	3347.5	3347.5	3347.5	3347.5	3347.5	3347.5	3347.5	3347.5	3347.5	3347.5
2.5°	3898.0	3922.8	3898.0	3903.5	3832.0	3798.9	3727.3	3628.2	3603.5	3540.2	3443.8
5°	4374.3	4396.3	4371.5	4366.0	4283.4	4222.9	4104.5	3933.8	3884.3	3760.4	3570.4
7.5°	4633.0	4646.8	4655.1	4668.8	4638.5	4589.0	4481.6	4269.7	4217.4	4016.4	3749.4
10°	4660.6	4671.6	4712.9	4795.5	4856.0	4886.3	4825.7	4630.3	4547.7	4352.2	3969.6
12.5°	4583.5	4600.0	4666.1	4803.7	4971.6	5125.8	5164.3	4993.7	4919.3	4668.8	4228.4
15°	4481.6	4495.4	4586.2	4773.4	5026.7	5310.2	5469.9	5395.6	5313.0	5051.5	4514.7
17.5°	4324.7	4344.0	4470.6	4723.9	5051.5	5456.1	5800.2	5825.0	5767.2	5483.7	4831.2
20°	4236.6	4250.4	4363.3	4624.8	5034.9	5563.5	6108.6	6342.5	6279.2	5981.9	5194.6
22.5°	4311.0	4322.0	4396.3	4600.0	4979.9	5624.1	6394.9	6860.1	6824.3	6516.0	5577.3
25°	4701.9	4737.6	4693.6	4729.4	5004.7	5657.1	6626.1	7377.6	7385.9	7074.8	5973.7
27.5°	5494.7	5447.9	5343.3	5164.3	5197.4	5745.2	6824.3	7864.9	7936.4	7619.9	6326.0
30°	6301.3	6273.7	6210.4	5932.4	5701.1	5940.6	6992.2	8363.1	8476.0	8156.7	6639.9
32.5°	7206.9	7234.5	7121.6	6788.5	6394.9	6337.0	7165.6	8836.6	9048.6	8765.1	7008.7
35°	8288.8	8297.1	8074.1	7705.2	7259.2	6992.2	7476.7	9359.7	9750.6	9541.4	7501.5
37.5°	9343.1	9392.7	9271.6	8690.7	8294.3	7807.1	7991.5	10031.4	10581.9	10499.3	8120.9
40°	10276.4	10353.4	10314.9	9753.3	9233.0	8822.9	8789.8	10818.7	11586.7	11680.3	8938.5
42.5°	11019.6	11069.2	11099.5	10700.3	10240.6	10009.3	9775.3	11732.6	12773.2	13155.8	9940.5
45°	11804.2	11820.7	11884.0	11614.2	11212.3	11231.6	10939.8	12842.0	14023.0	14791.0	11091.2
47.5°	12803.5	12858.5	12828.2	12544.7	12181.3	12398.8	12142.8	13984.4	15256.3	16536.3	12269.4
50°	14020.2	14078.0	14050.5	13720.2	13315.5	13406.3	13246.7	15093.8	16445.5	18182.5	13249.4
52.5°	14647.9	14694.7	15036.0	15184.7	14972.7	14394.6	14188.1	16313.3	17450.3	19536.9	14149.6
55°	14345.1	14378.1	15121.4	15749.0	16525.3	15947.2	15135.1	17254.8	18336.7	20594.0	14818.6
57.5°	13089.8	13268.7	14279.0	15341.6	16974.0	17480.5	16671.2	18278.9	19190.1	21329.0	15476.5
60°	10515.9	10507.6	11955.6	13863.3	16098.6	17901.7	18840.5	19663.6	20046.2	21893.4	16357.4
62.5°	5811.3	5863.6	7790.5	10303.9	13665.1	16811.6	20467.4	22055.8	21998.0	22878.9	17736.6
65°	2893.2	2997.8	4043.9	5902.1	9092.6	13893.6	20748.2	25706.0	25540.9	25199.5	20585.8
67.5°	1836.1	1877.4	2455.5	3430.0	5054.2	8930.2	19000.1	28428.6	28811.2	27952.4	23412.9
70°	1189.2	1258.0	1706.8	2345.4	3050.1	4602.8	13918.4	26664.0	27542.2	27649.5	21651.1
72.5°	646.9	696.5	1090.1	1673.7	2202.3	2301.4	7818.1	20010.4	21422.6	23454.2	16938.2
75°	368.9	404.7	597.4	1136.9	1615.9	1401.2	3465.8	13395.3	14295.5	16762.1	12137.3
77.5°	223.0	253.3	335.8	553.3	1013.0	936.0	1310.4	8153.9	8726.5	10001.1	6370.1
80°	101.9	121.1	212.0	305.6	553.3	443.2	501.0	3801.7	3925.6	4104.5	2108.7
82.5°	46.8	55.1	96.3	181.7	313.8	256.0	192.7	878.2	1236.0	1170.0	536.8
85°	5.5	5.5	35.8	74.3	88.1	66.1	79.8	198.2	250.5	352.4	154.2
87.5°	0.0	0.0	2.8	2.8	5.5	8.3	16.5	24.8	35.8	57.8	38.5
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°	3347.5	3347.5	3347.5	3347.5	3347.5	3347.5	3347.5	3347.5	3347.5	3347.5	3347.5
2.5°	3399.8	3322.7	3253.9	3152.0	3083.2	3006.1	2953.8	2890.5	2865.7	2846.4	2818.9
5°	3476.8	3353.0	3185.0	2997.8	2843.7	2697.8	2562.9	2474.8	2397.7	2386.7	2348.2
7.5°	3603.5	3419.0	3135.5	2829.9	2568.4	2326.2	2136.2	1982.0	1905.0	1880.2	1836.1
10°	3771.4	3518.1	3061.2	2593.2	2216.0	1927.0	1712.3	1538.8	1417.7	1373.7	1340.6
12.5°	3958.6	3609.0	2942.8	2301.4	1871.9	1541.6	1269.1	1084.6	1007.5	980.0	955.2
15°	4173.3	3694.3	2755.6	2009.6	1536.1	1134.2	941.5	861.6	828.6	820.3	812.1
17.5°	4379.8	3749.4	2532.6	1706.8	1181.0	880.9	790.1	759.8	751.5	743.3	737.8
20°	4613.8	3787.9	2271.1	1420.5	916.7	746.0	702.0	680.0	663.4	646.9	644.2
22.5°	4853.3	3787.9	1987.6	1139.7	768.0	668.9	619.4	578.1	547.8	531.3	525.8
25°	5081.7	3735.6	1706.8	911.2	677.2	594.6	531.3	484.5	443.2	423.9	418.4
27.5°	5244.2	3600.7	1461.8	770.8	613.9	528.5	451.5	399.2	366.1	346.9	344.1
30°	5346.0	3399.8	1236.0	688.2	558.8	459.7	382.6	338.6	313.8	300.1	294.6
32.5°	5423.1	3152.0	1035.1	630.4	506.5	399.2	333.1	297.3	275.3	264.3	261.5
35°	5577.3	2918.0	886.4	578.1	451.5	349.6	291.8	264.3	247.8	234.0	231.2
37.5°	5792.0	2722.6	768.0	531.3	399.2	311.1	264.3	239.5	225.7	212.0	209.2
40°	6108.6	2598.7	680.0	484.5	352.4	280.8	242.3	220.2	201.0	187.2	184.4
42.5°	6595.8	2540.9	622.1	437.7	311.1	253.3	223.0	195.5	176.2	162.4	159.7
45°	7176.7	2571.2	572.6	390.9	283.5	234.0	198.2	170.7	151.4	137.6	134.9
47.5°	7798.8	2678.5	531.3	346.9	256.0	214.7	176.2	145.9	129.4	115.6	112.9
50°	8448.5	2854.7	495.5	305.6	234.0	192.7	151.4	126.6	110.1	99.1	96.3
52.5°	9012.8	3094.2	459.7	275.3	214.7	170.7	132.1	110.1	93.6	82.6	79.8
55°	9552.4	3319.9	432.2	247.8	192.7	148.7	115.6	93.6	79.8	68.8	66.1
57.5°	10138.7	3559.4	399.2	223.0	173.4	132.1	101.9	79.8	68.8	57.8	55.1
60°	10992.1	3914.5	349.6	203.7	151.4	115.6	88.1	71.6	60.6	46.8	44.0
62.5°	12222.6	4561.5	294.6	176.2	129.4	99.1	74.3	60.6	49.6	38.5	33.0
65°	14524.0	5662.6	242.3	145.9	104.6	82.6	63.3	49.6	38.5	27.5	24.8
67.5°	16181.2	5948.9	195.5	118.4	85.3	63.3	52.3	38.5	27.5	19.3	16.5
70°	14146.9	4272.4	151.4	96.3	71.6	49.6	41.3	30.3	19.3	13.8	11.0
72.5°	10659.0	2791.4	112.9	74.3	55.1	41.3	30.3	24.8	16.5	11.0	8.3
75°	7512.5	1613.2	82.6	55.1	38.5	30.3	24.8	19.3	13.8	8.3	8.3
77.5°	3851.2	666.2	57.8	38.5	27.5	19.3	16.5	11.0	11.0	8.3	5.5
80°	1170.0	220.2	33.0	24.8	19.3	13.8	8.3	8.3	8.3	5.5	2.8
82.5°	267.0	71.6	19.3	19.3	13.8	11.0	8.3	2.8	2.8	0.0	0.0
85°	68.8	22.0	16.5	13.8	13.8	11.0	5.5	2.8	0.0	0.0	0.0
87.5°	24.8	13.8	13.8	13.8	11.0	8.3	5.5	0.0	0.0	0.0	0.0
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)