

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: P638818

Luminaire Tested: GWS-SA4F-750-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638818
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4F-750-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20673.7 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

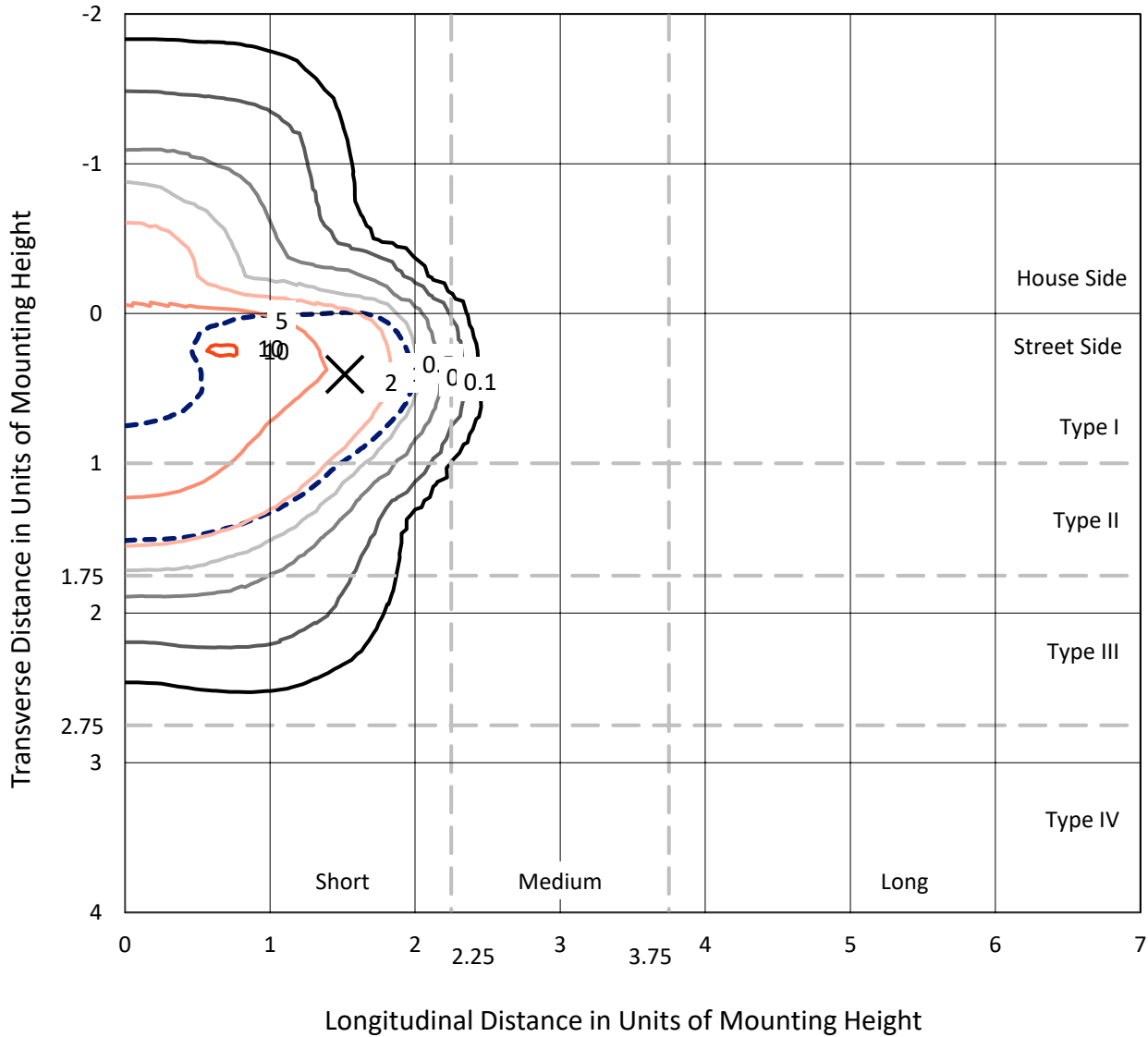
Input Watts (W): 225.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

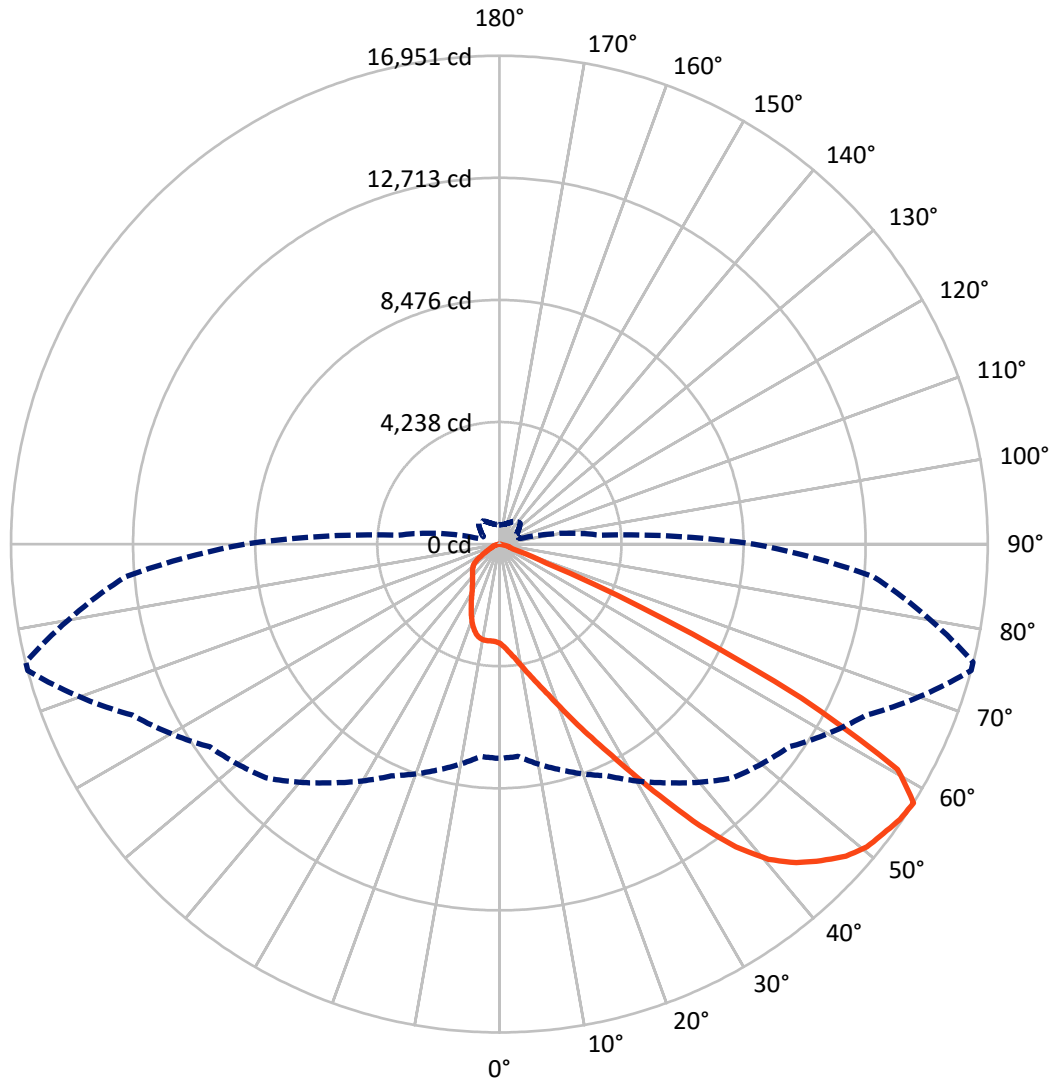
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3377.0	0.0	3377.0
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	17296.7	0.0	17296.7
	% Fixture	83.7	0.0	83.7
Total	Lumens	20673.7	0.0	20673.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.9	1.7
10°-20°	1139.8	5.5
20°-30°	2087.2	10.1
30°-40°	3462.9	16.8
40°-50°	5288.6	25.6
50°-60°	5942.7	28.7
60°-70°	2191.9	10.6
70°-80°	209.5	1.0
80°-90°	0.2	0.0
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°	20673.7	100.0
0°-180°	20673.7	100.0

Coefficient of Utilization



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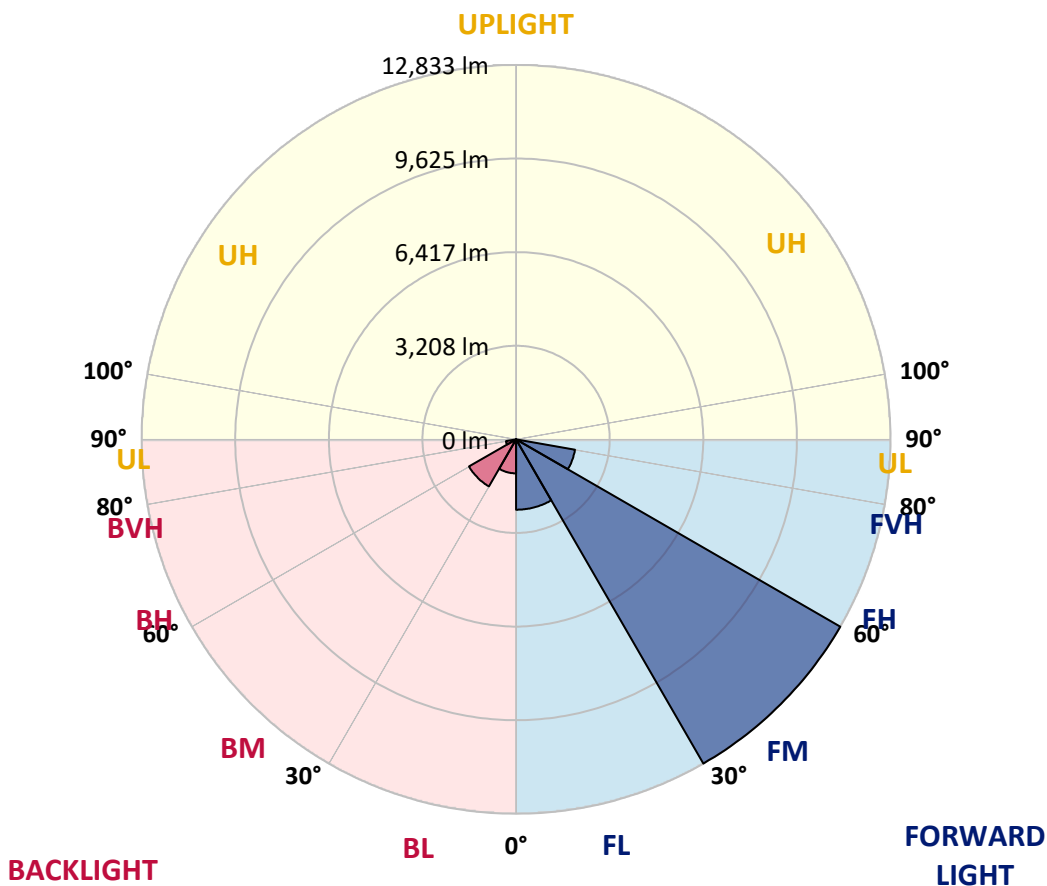
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2412.6	11.7			
FM (30°-60°)	12833.3	62.1			
FH (60°-80°)	2050.8	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1165.3	5.6	B3/2500		
BM (30°-60°)	1861.0	9.0	B2/2500		
BH (60°-80°)	350.7	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1
2.5°	3852.3	3892.2	3879.7	3854.8	3839.8	3787.4	3755.0	3660.2	3592.8	3585.3	3522.9
5°	4338.8	4331.3	4321.3	4291.4	4266.4	4184.1	4086.8	3927.1	3784.9	3767.4	3635.2
7.5°	4605.8	4610.8	4615.7	4610.8	4593.3	4530.9	4423.6	4236.5	4019.4	4004.5	3794.9
10°	4715.5	4725.5	4750.5	4797.9	4840.3	4835.3	4772.9	4580.8	4313.8	4288.9	4007.0
12.5°	4767.9	4780.4	4820.3	4910.2	5024.9	5114.7	5124.7	4952.6	4658.2	4618.2	4259.0
15°	4840.3	4852.8	4902.7	5019.9	5187.1	5364.2	5479.0	5369.2	5039.9	4997.5	4535.9
17.5°	4872.7	4890.2	4962.5	5117.2	5334.3	5606.3	5865.7	5855.8	5491.5	5459.1	4857.8
20°	4935.1	4947.6	5012.4	5179.6	5441.6	5833.3	6269.9	6427.1	6042.9	5995.5	5247.0
22.5°	5132.2	5137.2	5167.1	5271.9	5516.4	5998.0	6681.6	7093.3	6694.1	6631.7	5683.6
25°	5454.1	5451.6	5464.0	5481.5	5661.1	6165.1	7078.3	7844.3	7440.1	7372.7	6177.6
27.5°	5863.2	5863.2	5893.2	5843.3	5915.6	6372.2	7470.0	8707.5	8308.3	8213.5	6719.0
30°	6344.8	6342.3	6412.1	6332.3	6354.8	6699.1	7891.7	9648.2	9356.2	9239.0	7342.8
32.5°	6998.5	6983.5	7063.3	6953.6	6878.7	7193.1	8405.6	10631.2	10611.2	10431.6	8126.2
35°	7824.3	7799.4	7824.3	7717.0	7582.3	7884.2	9079.3	11611.7	12003.4	11813.8	9059.3
37.5°	8645.2	8725.0	8752.4	8567.8	8458.0	8759.9	9890.2	12490.0	13333.3	13136.2	10029.9
40°	9613.2	9588.3	9683.1	9476.0	9406.1	9740.5	10683.6	13143.6	14386.2	14199.0	10893.2
42.5°	10326.8	10371.7	10489.0	10374.2	10319.3	10633.7	11349.7	13525.4	15117.2	14932.6	11509.4
45°	11182.6	11215.0	11259.9	11165.1	11107.7	11417.1	11831.3	13692.5	15673.6	15474.0	11923.6
47.5°	12108.2	12133.2	12133.2	11938.6	11753.9	11881.2	12153.1	13787.4	16185.0	15992.9	12230.5
50°	12771.9	12784.4	12894.1	12756.9	12355.2	12158.1	12300.3	13879.7	16524.4	16344.7	12330.3
52.5°	12183.1	12168.1	12529.9	12814.3	12921.6	12529.9	12554.8	14014.4	16689.0	16534.3	12410.1
55°	10259.4	10234.5	10743.5	11434.6	12380.2	12881.7	12861.7	14094.2	16871.2	16776.4	12699.5
57.5°	7437.6	7395.2	8103.7	8872.2	10112.2	11472.0	12270.4	14049.3	16951.0	16943.5	13036.4
60°	4471.0	4436.1	5104.8	5913.1	6871.2	8238.5	9563.3	12584.8	15883.1	15898.1	12160.6
62.5°	2752.0	2784.4	3388.2	3799.9	4156.7	4568.3	5334.3	8465.5	11766.4	11863.7	8545.4
65°	1851.3	1876.2	2435.1	2954.1	2954.1	2415.2	2073.3	4046.9	6277.4	6112.7	4041.9
67.5°	1242.5	1270.0	1711.6	2317.9	2405.2	1684.1	840.8	1207.6	1749.0	1696.6	1000.5
70°	731.0	761.0	1140.2	1589.3	1751.5	1172.6	561.4	511.5	496.5	481.5	389.2
72.5°	326.8	339.3	581.3	808.4	738.5	494.0	396.7	409.2	386.7	379.2	316.9
75°	99.8	104.8	149.7	174.6	177.1	177.1	239.5	321.9	304.4	306.9	244.5
77.5°	24.9	24.9	39.9	37.4	20.0	17.5	44.9	72.4	74.8	67.4	49.9
80°	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1	3448.1
2.5°	3495.5	3430.6	3388.2	3328.3	3285.9	3241.0	3201.1	3168.6	3151.2	3146.2	3148.7
5°	3575.3	3473.0	3373.2	3258.5	3178.6	3103.8	3043.9	2996.5	2974.0	2966.6	2966.6
7.5°	3697.6	3555.4	3378.2	3198.6	3063.9	2946.6	2876.7	2824.3	2804.4	2799.4	2784.4
10°	3857.3	3662.7	3370.7	3091.3	2901.7	2779.4	2729.5	2714.6	2722.0	2724.5	2722.0
12.5°	4049.4	3774.9	3323.3	2934.1	2729.5	2654.7	2659.7	2699.6	2744.5	2767.0	2771.9
15°	4254.0	3877.2	3216.1	2747.0	2582.3	2579.8	2652.2	2744.5	2831.8	2869.2	2879.2
17.5°	4483.5	3959.6	3051.4	2547.4	2455.1	2527.4	2657.2	2799.4	2916.7	2979.0	2991.5
20°	4735.5	4026.9	2841.8	2360.3	2342.8	2472.5	2652.2	2826.8	2971.5	3041.4	3053.9
22.5°	4997.5	4074.3	2599.8	2188.1	2240.5	2410.2	2604.8	2774.4	2911.7	2991.5	3001.5
25°	5296.9	4079.3	2352.8	2043.4	2145.7	2325.3	2490.0	2629.7	2744.5	2814.4	2821.8
27.5°	5558.9	4019.4	2133.2	1926.1	2058.4	2220.5	2330.3	2407.7	2487.5	2527.4	2529.9
30°	5860.7	3914.6	1926.1	1831.3	1968.6	2090.8	2145.7	2163.2	2170.6	2178.1	2168.2
32.5°	6220.0	3787.4	1771.4	1739.0	1866.3	1948.6	1963.6	1928.6	1886.2	1826.3	1811.4
35°	6661.6	3672.6	1644.2	1649.2	1754.0	1803.9	1791.4	1716.6	1634.2	1561.9	1549.4
37.5°	7140.7	3575.3	1546.9	1561.9	1631.7	1666.7	1629.2	1546.9	1509.5	1447.1	1449.6
40°	7564.8	3495.5	1459.6	1474.5	1507.0	1539.4	1479.5	1424.6	1494.5	1489.5	1494.5
42.5°	7866.7	3428.1	1384.7	1377.2	1399.7	1422.1	1377.2	1349.8	1467.1	1434.6	1452.1
45°	8043.9	3365.8	1322.3	1277.4	1312.4	1352.3	1322.3	1287.4	1327.3	1177.6	1165.2
47.5°	8163.6	3330.8	1267.5	1180.1	1242.5	1312.4	1250.0	1165.2	1107.8	978.0	968.1
50°	8176.1	3313.4	1202.6	1080.3	1160.2	1235.0	1162.7	1045.4	963.1	905.7	898.2
52.5°	8241.0	3348.3	1112.8	953.1	1040.4	1160.2	1110.3	993.0	880.7	830.8	820.9
55°	8530.4	3495.5	963.1	778.4	905.7	1102.8	1067.9	885.7	778.4	748.5	741.0
57.5°	8829.8	3525.4	758.5	616.3	788.4	1020.5	975.5	815.9	711.1	676.1	668.7
60°	8073.8	2904.2	568.9	509.0	696.1	943.1	903.2	773.4	651.2	608.8	601.3
62.5°	5304.4	1569.4	451.6	431.6	586.3	798.4	823.3	698.6	581.3	536.4	533.9
65°	2445.1	728.5	346.8	341.8	459.1	636.2	708.6	611.3	491.5	451.6	451.6
67.5°	666.2	361.8	272.0	252.0	311.9	426.6	516.5	456.6	349.3	301.9	299.4
70°	331.8	291.9	244.5	217.1	224.5	264.5	304.4	254.5	177.1	144.7	142.2
72.5°	272.0	239.5	207.1	184.6	169.7	162.2	157.2	127.2	82.3	62.4	59.9
75°	202.1	172.2	147.2	119.8	102.3	94.8	84.8	62.4	34.9	20.0	17.5
77.5°	44.9	42.4	39.9	29.9	27.4	22.5	17.5	12.5	5.0	0.0	0.0
80°	2.5	2.5	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)