

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: P638325

Luminaire Tested: GWS-SA4E-750-U-T2-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638325
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-SA4E-750-U-T2-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23448.5 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

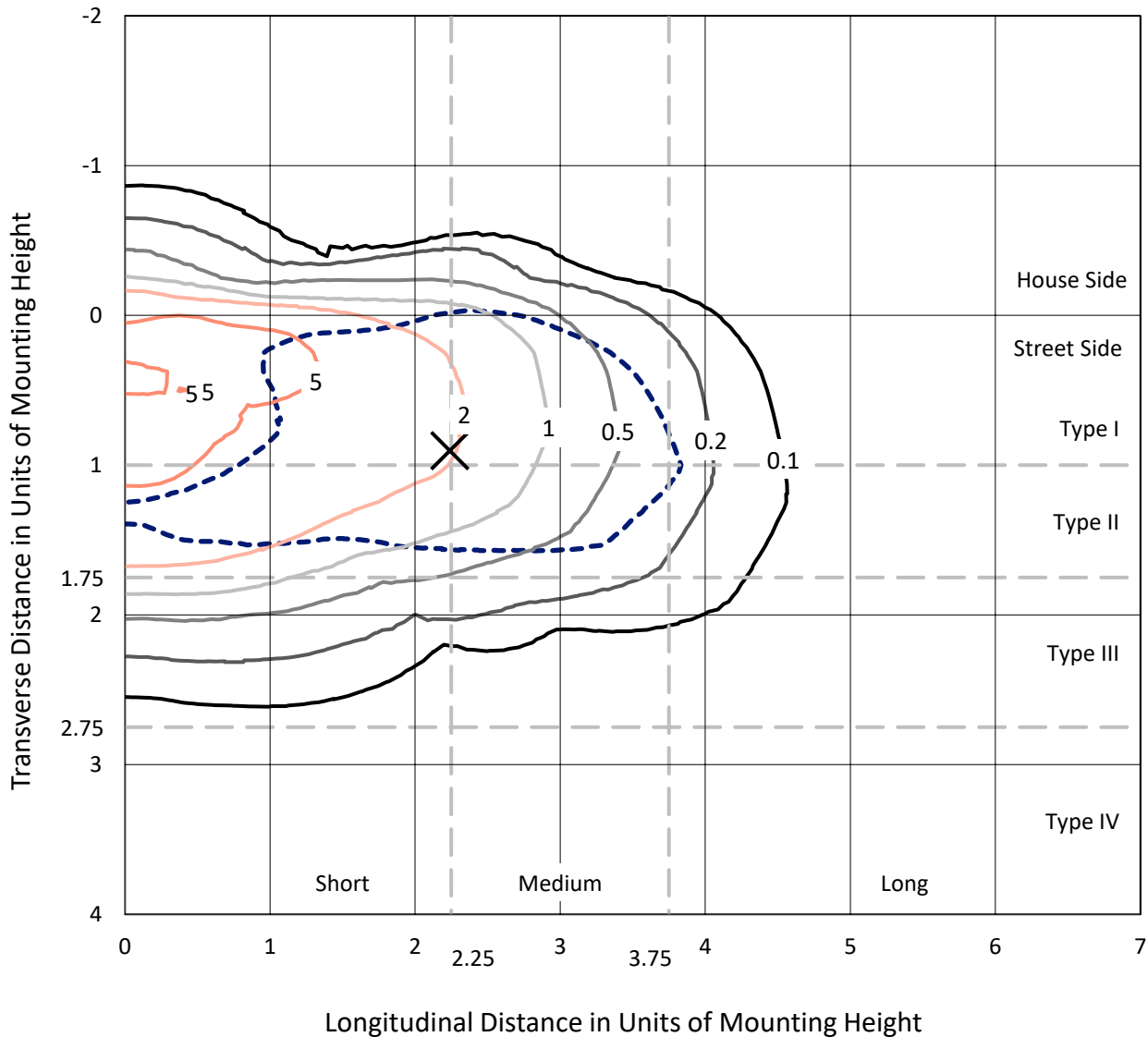
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

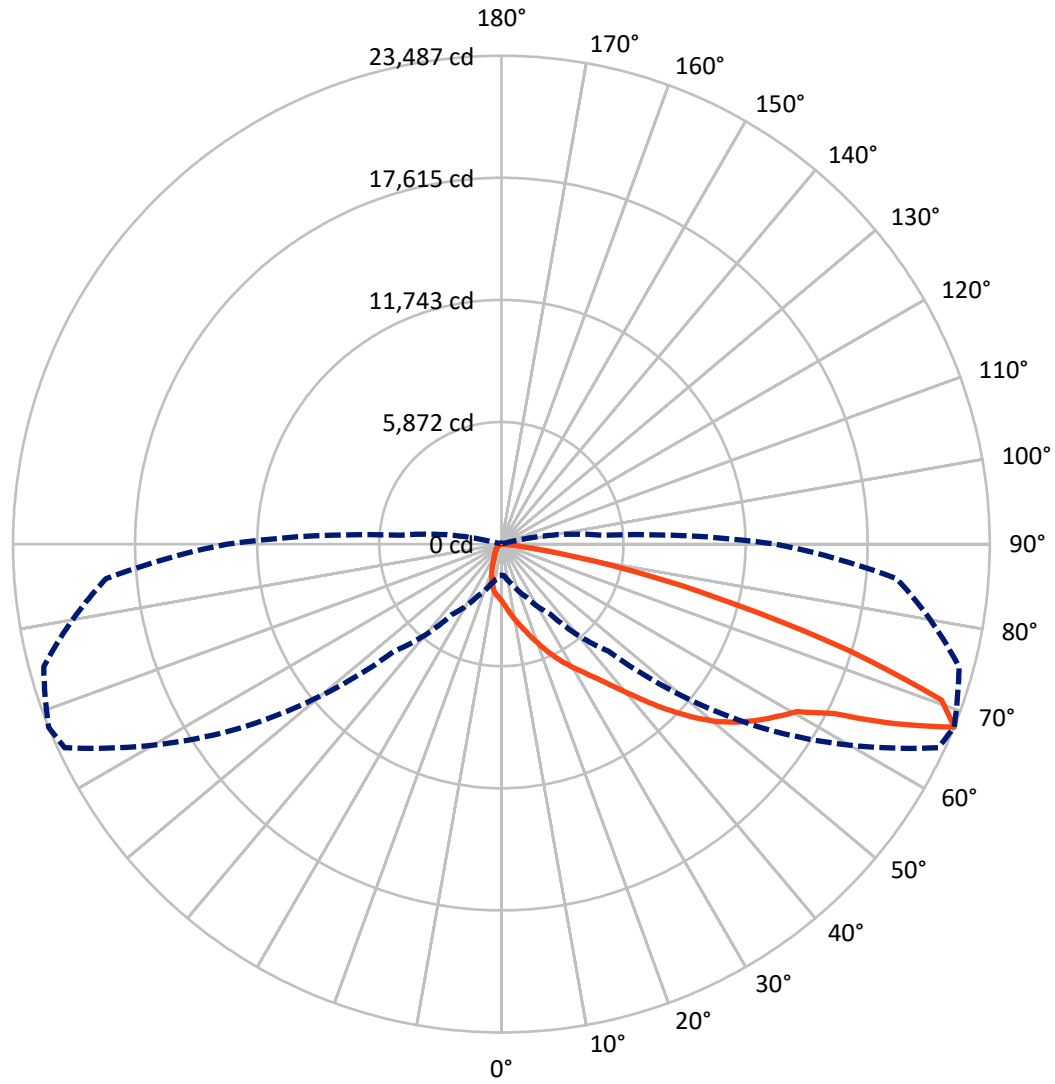
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1693.2	0.0	1693.2
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	21755.2	0.0	21755.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	23448.5	0.0	23448.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	266.1	1.1
10°-20°	764.3	3.3
20°-30°	1313.4	5.6
30°-40°	2283.5	9.7
40°-50°	3984.5	17.0
50°-60°	6009.7	25.6
60°-70°	6026.2	25.7
70°-80°	2658.7	11.3
80°-90°	142.0	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°	23448.5	100.0
0°-180°	23448.5	100.0

Coefficient of Utilization



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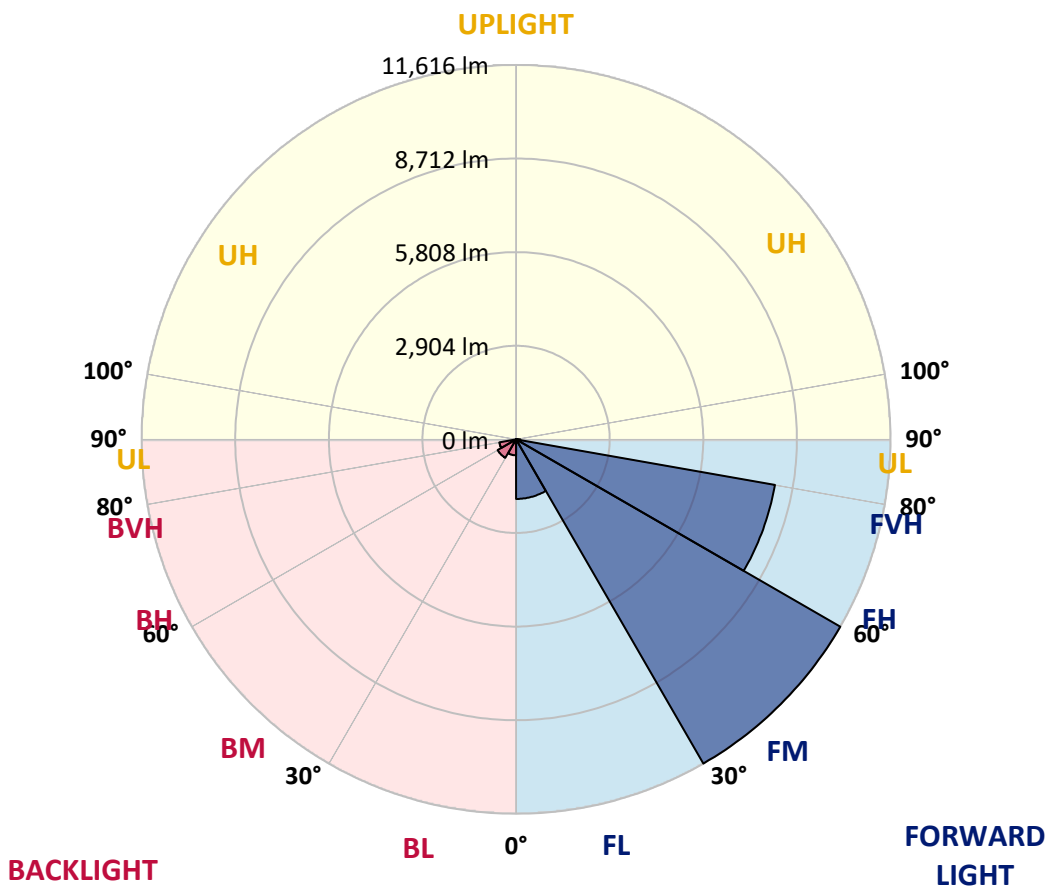
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1848.4	7.9			
FM (30°-60°)	11616.3	49.5			
FH (60°-80°)	8156.5	34.8			G4/12000
FVH (80°-90°)	134.0	0.6			G2/225
BL (0°-30°)	495.4	2.1	B1/500		
BM (30°-60°)	661.4	2.8	B1/1000		
BH (60°-80°)	528.4	2.3	B2/1000		G2/1000
BVH (80°-90°)	8.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	68°	75°	85°
0°	2728.8	2728.8	2728.8	2728.8	2728.8	2728.8	2728.8	2728.8	2728.8	2728.8	2728.8
2.5°	3177.6	3197.8	3177.6	3182.1	3123.8	3096.8	3038.5	2957.7	2937.5	2885.9	2807.4
5°	3565.9	3583.8	3563.6	3559.1	3491.8	3442.4	3345.9	3206.8	3166.4	3065.4	2910.6
7.5°	3776.8	3788.0	3794.8	3806.0	3781.3	3740.9	3653.4	3480.6	3437.9	3274.1	3056.4
10°	3799.2	3808.2	3841.9	3909.2	3958.6	3983.3	3933.9	3774.6	3707.2	3547.9	3236.0
12.5°	3736.4	3749.9	3803.7	3915.9	4052.8	4178.5	4209.9	4070.8	4010.2	3806.0	3446.9
15°	3653.4	3664.6	3738.6	3891.2	4097.7	4328.8	4459.0	4398.4	4331.1	4117.9	3680.3
17.5°	3525.5	3541.2	3644.4	3850.9	4117.9	4447.8	4728.3	4748.5	4701.4	4470.2	3938.4
20°	3453.6	3464.9	3556.9	3770.1	4104.4	4535.3	4979.6	5170.4	5118.8	4876.4	4234.6
22.5°	3514.2	3523.2	3583.8	3749.9	4059.6	4584.7	5213.0	5592.3	5563.1	5311.8	4546.5
25°	3832.9	3862.1	3826.2	3855.3	4079.7	4611.6	5401.5	6014.2	6020.9	5767.3	4869.7
27.5°	4479.2	4441.0	4355.8	4209.9	4236.8	4683.4	5563.1	6411.4	6469.7	6211.6	5156.9
30°	5136.7	5114.3	5062.7	4836.0	4647.5	4842.7	5700.0	6817.5	6909.5	6649.2	5412.7
32.5°	5875.0	5897.5	5805.5	5533.9	5213.0	5165.9	5841.4	7203.5	7376.3	7145.2	5713.4
35°	6756.9	6763.7	6581.9	6281.2	5917.7	5700.0	6094.9	7629.9	7948.6	7778.0	6115.1
37.5°	7616.4	7656.8	7558.1	7084.6	6761.4	6364.2	6514.6	8177.5	8626.3	8558.9	6620.1
40°	8377.2	8440.0	8408.6	7950.8	7526.7	7192.3	7165.4	8819.3	9445.4	9521.7	7286.5
42.5°	8983.1	9023.5	9048.2	8722.8	8348.0	8159.5	7968.8	9564.3	10412.6	10724.5	8103.4
45°	9622.6	9636.1	9687.7	9467.8	9140.2	9155.9	8918.0	10468.7	11431.4	12057.5	9041.4
47.5°	10437.2	10482.1	10457.4	10226.3	9930.1	10107.4	9898.7	11400.0	12436.7	13480.2	10001.9
50°	11429.1	11476.3	11453.8	11184.5	10854.6	10928.7	10798.5	12304.3	13406.2	14822.2	10800.8
52.5°	11940.8	11978.9	12257.2	12378.4	12205.6	11734.3	11566.0	13298.5	14225.3	15926.3	11534.6
55°	11693.9	11720.9	12326.8	12838.4	13471.3	13000.0	12338.0	14065.9	14947.9	16788.0	12079.9
57.5°	10670.6	10816.5	11640.1	12506.3	13837.0	14249.9	13590.2	14900.7	15643.5	17387.2	12616.3
60°	8572.4	8565.7	9746.1	11301.2	13123.4	14593.3	15358.5	16029.5	16341.4	17847.2	13334.4
62.5°	4737.3	4779.9	6350.8	8399.6	11139.6	13704.6	16684.8	17979.6	17932.5	18650.6	14458.6
65°	2358.5	2443.8	3296.6	4811.3	7412.2	11325.9	16913.7	20955.3	20820.6	20542.4	16781.3
67.5°	1496.8	1530.5	2001.7	2796.1	4120.1	7279.8	15488.7	23174.7	23486.6	22786.5	19086.0
70°	969.4	1025.5	1391.3	1912.0	2486.4	3752.1	11346.1	21736.2	22452.1	22539.6	17649.7
72.5°	527.4	567.8	888.7	1364.4	1795.3	1876.1	6373.2	16312.3	17463.5	19119.6	13807.9
75°	300.7	329.9	487.0	926.8	1317.3	1142.2	2825.3	10919.7	11653.5	13664.2	9894.2
77.5°	181.8	206.5	273.8	451.1	825.8	763.0	1068.2	6647.0	7113.8	8152.8	5192.8
80°	83.0	98.7	172.8	249.1	451.1	361.3	408.4	3099.1	3200.1	3345.9	1719.0
82.5°	38.1	44.9	78.5	148.1	255.8	208.7	157.1	715.9	1007.6	953.7	437.6
85°	4.5	4.5	29.2	60.6	71.8	53.9	65.1	161.6	204.2	287.2	125.7
87.5°	0.0	0.0	2.2	2.2	4.5	6.7	13.5	20.2	29.2	47.1	31.4
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°	2728.8	2728.8	2728.8	2728.8	2728.8	2728.8	2728.8	2728.8	2728.8	2728.8	2728.8
2.5°	2771.4	2708.6	2652.5	2569.5	2513.4	2450.5	2407.9	2356.3	2336.1	2320.4	2297.9
5°	2834.3	2733.3	2596.4	2443.8	2318.1	2199.2	2089.2	2017.4	1954.6	1945.6	1914.2
7.5°	2937.5	2787.2	2556.0	2306.9	2093.7	1896.3	1741.4	1615.7	1552.9	1532.7	1496.8
10°	3074.4	2867.9	2495.4	2113.9	1806.5	1570.9	1395.8	1254.4	1155.7	1119.8	1092.9
12.5°	3227.0	2942.0	2398.9	1876.1	1526.0	1256.7	1034.5	884.2	821.3	798.9	778.7
15°	3402.0	3011.6	2246.3	1638.2	1252.2	924.6	767.5	702.4	675.5	668.7	662.0
17.5°	3570.3	3056.4	2064.6	1391.3	962.7	718.1	644.1	619.4	612.6	605.9	601.4
20°	3761.1	3087.9	1851.4	1157.9	747.3	608.1	572.2	554.3	540.8	527.4	525.1
22.5°	3956.3	3087.9	1620.2	929.1	626.1	545.3	504.9	471.3	446.6	433.1	428.6
25°	4142.6	3045.2	1391.3	742.8	552.0	484.7	433.1	395.0	361.3	345.6	341.1
27.5°	4275.0	2935.3	1191.6	628.3	500.4	430.9	368.0	325.4	298.5	282.8	280.5
30°	4358.0	2771.4	1007.6	561.0	455.5	374.8	311.9	276.0	255.8	244.6	240.1
32.5°	4420.9	2569.5	843.8	513.9	412.9	325.4	271.5	242.4	224.4	215.4	213.2
35°	4546.5	2378.7	722.6	471.3	368.0	285.0	237.9	215.4	202.0	190.7	188.5
37.5°	4721.6	2219.4	626.1	433.1	325.4	253.6	215.4	195.2	184.0	172.8	170.6
40°	4979.6	2118.4	554.3	395.0	287.2	228.9	197.5	179.5	163.8	152.6	150.4
42.5°	5376.8	2071.3	507.2	356.8	253.6	206.5	181.8	159.3	143.6	132.4	130.2
45°	5850.3	2096.0	466.8	318.7	231.1	190.7	161.6	139.1	123.4	112.2	110.0
47.5°	6357.5	2183.5	433.1	282.8	208.7	175.0	143.6	118.9	105.5	94.3	92.0
50°	6887.1	2327.1	403.9	249.1	190.7	157.1	123.4	103.2	89.8	80.8	78.5
52.5°	7347.1	2522.4	374.8	224.4	175.0	139.1	107.7	89.8	76.3	67.3	65.1
55°	7787.0	2706.4	352.3	202.0	157.1	121.2	94.3	76.3	65.1	56.1	53.9
57.5°	8265.0	2901.6	325.4	181.8	141.4	107.7	83.0	65.1	56.1	47.1	44.9
60°	8960.6	3191.1	285.0	166.1	123.4	94.3	71.8	58.3	49.4	38.1	35.9
62.5°	9963.7	3718.5	240.1	143.6	105.5	80.8	60.6	49.4	40.4	31.4	26.9
65°	11839.8	4616.1	197.5	118.9	85.3	67.3	51.6	40.4	31.4	22.4	20.2
67.5°	13190.7	4849.5	159.3	96.5	69.6	51.6	42.6	31.4	22.4	15.7	13.5
70°	11532.4	3482.8	123.4	78.5	58.3	40.4	33.7	24.7	15.7	11.2	9.0
72.5°	8689.1	2275.5	92.0	60.6	44.9	33.7	24.7	20.2	13.5	9.0	6.7
75°	6124.1	1315.0	67.3	44.9	31.4	24.7	20.2	15.7	11.2	6.7	6.7
77.5°	3139.5	543.1	47.1	31.4	22.4	15.7	13.5	9.0	9.0	6.7	4.5
80°	953.7	179.5	26.9	20.2	15.7	11.2	6.7	6.7	6.7	4.5	2.2
82.5°	217.7	58.3	15.7	15.7	11.2	9.0	6.7	2.2	2.2	0.0	0.0
85°	56.1	18.0	13.5	11.2	11.2	9.0	4.5	2.2	0.0	0.0	0.0
87.5°	20.2	11.2	11.2	11.2	9.0	6.7	4.5	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)