

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: P641299

Luminaire Tested: GWS-SA5F-750-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641299
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34432.5 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

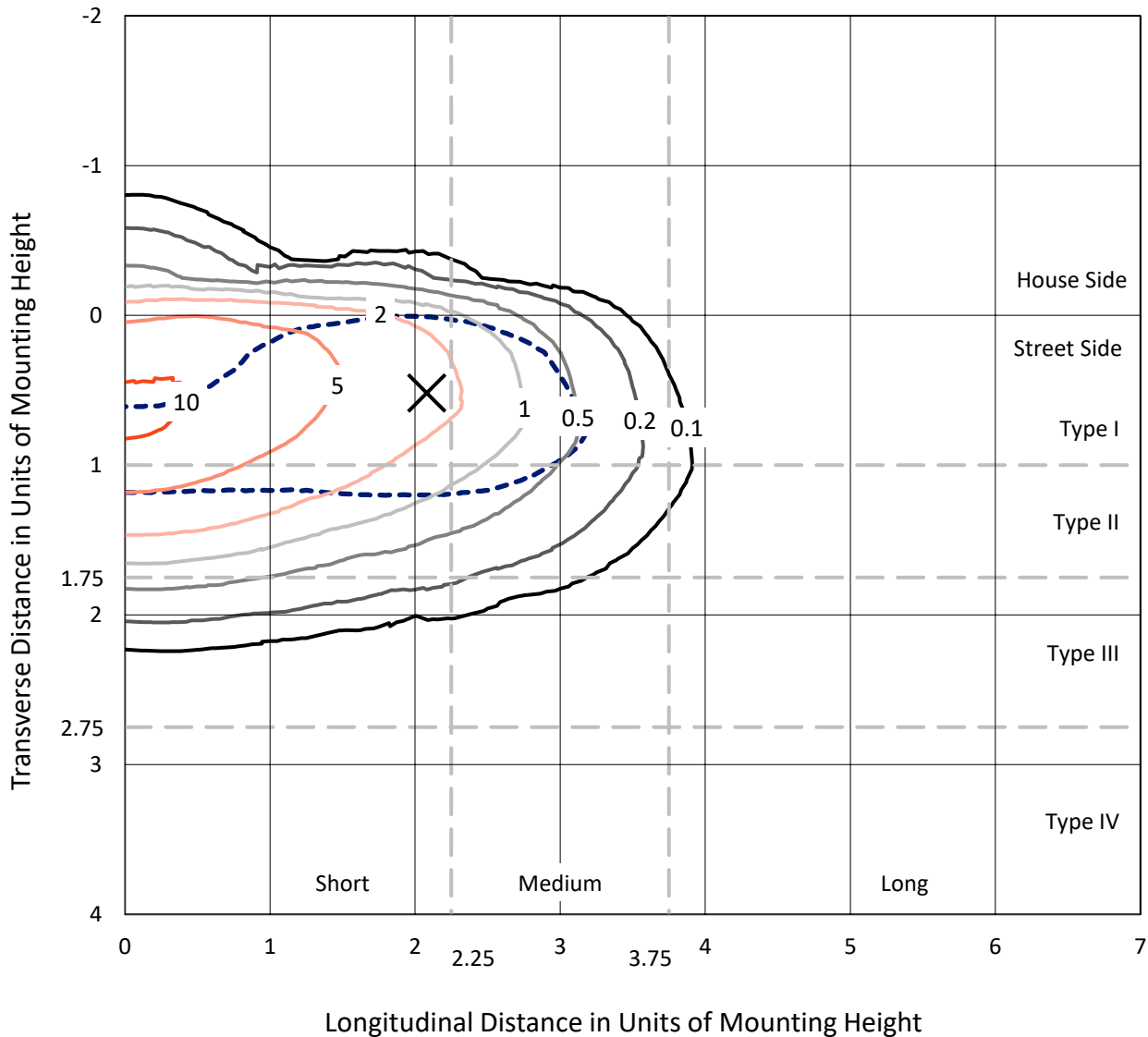
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

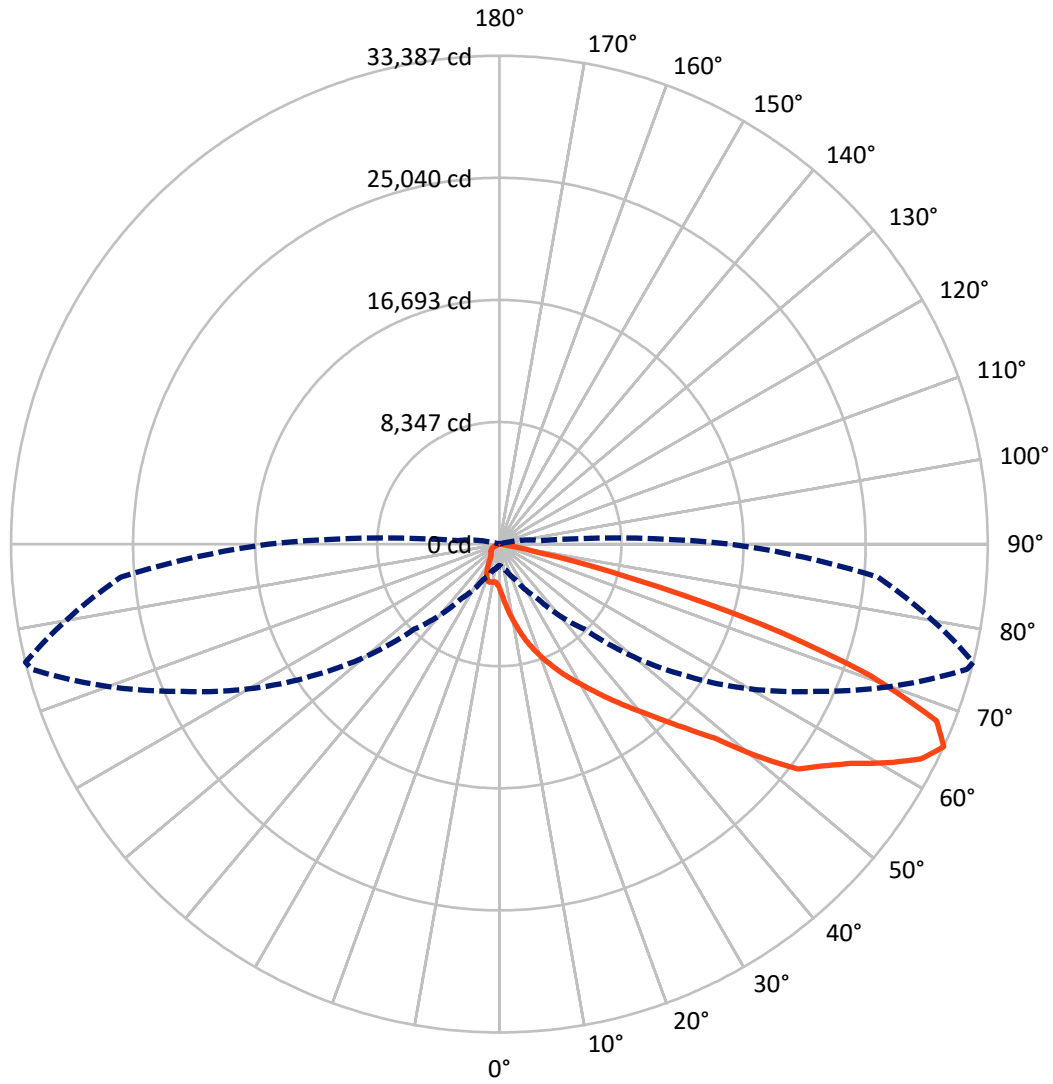
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1903.9	0.0	1903.9
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	32528.6	0.0	32528.6
	% Fixture	94.5	0.0	94.5
Total	Lumens	34432.5	0.0	34432.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.9	1.1
10°-20°	1407.3	4.1
20°-30°	2871.0	8.3
30°-40°	5106.2	14.8
40°-50°	7548.2	21.9
50°-60°	8642.1	25.1
60°-70°	6593.5	19.1
70°-80°	1847.0	5.4
80°-90°	46.5	0.1
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°	34432.5	100.0
0°-180°	34432.5	100.0

Coefficient of Utilization



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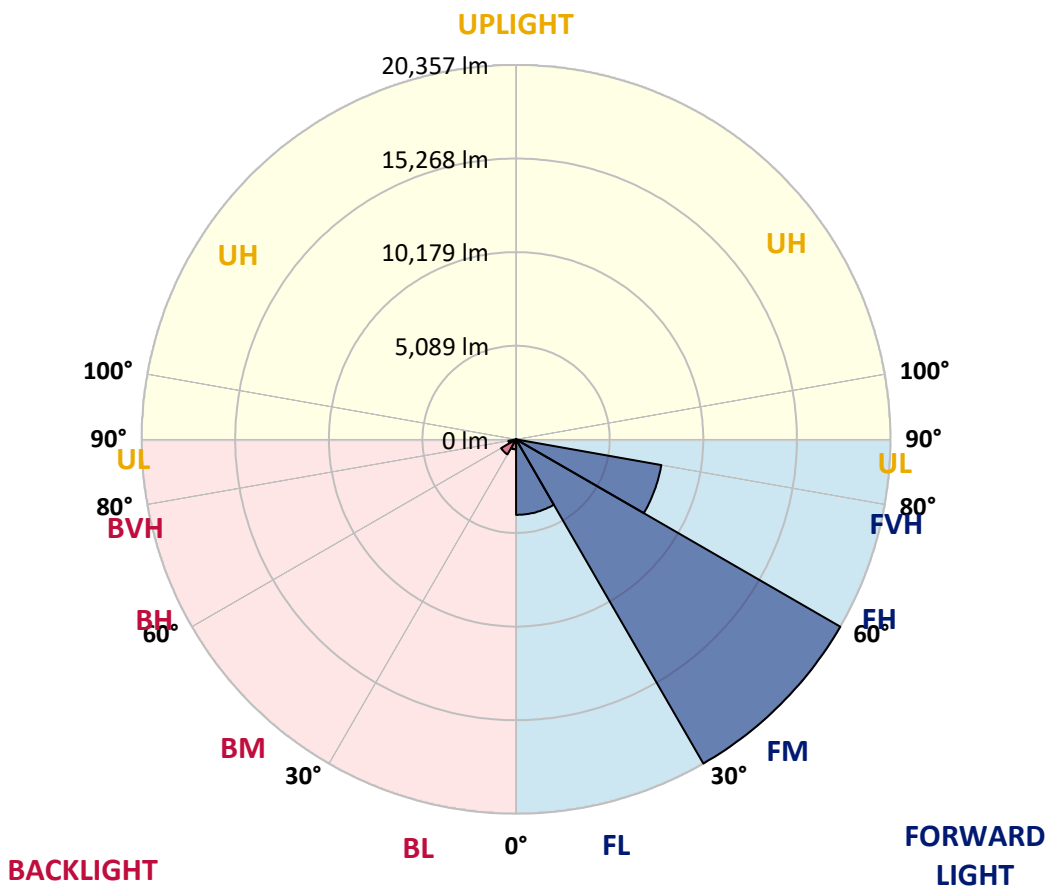
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4105.8	11.9			
FM (30°-60°)	20357.0	59.1			
FH (60°-80°)	8021.9	23.3			G4/12000
FVH (80°-90°)	43.8	0.1			G1/100
BL (0°-30°)	543.3	1.6	B2/1000		
BM (30°-60°)	939.4	2.7	B1/1000		
BH (60°-80°)	418.5	1.2	B1/500		G1/500
BVH (80°-90°)	2.7	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°	75°	76°	85°
0°	3048.5	3048.5	3048.5	3048.5	3048.5	3048.5	3048.5	3048.5	3048.5	3048.5	3048.5
2.5°	4698.3	4768.7	4713.6	4621.8	4444.2	4272.8	4052.5	3749.4	3507.6	3477.0	3250.5
5°	6345.0	6338.9	6219.5	6100.1	5913.4	5619.6	5175.8	4612.6	4070.8	4024.9	3516.8
7.5°	7324.4	7333.6	7266.3	7174.5	6990.8	6687.8	6225.6	5546.1	4753.4	4661.6	3881.1
10°	8147.8	8144.7	8095.8	8052.9	7887.6	7685.6	7189.8	6442.9	5488.0	5344.1	4288.1
12.5°	8766.1	8787.5	8812.0	8854.8	8784.4	8585.5	8117.2	7303.0	6231.7	6072.6	4753.4
15°	9255.8	9261.9	9353.7	9519.0	9577.2	9473.1	9047.7	8135.5	6966.3	6828.6	5289.0
17.5°	9402.7	9414.9	9571.0	9874.1	10180.1	10238.3	9916.9	8974.2	7688.7	7541.8	5809.4
20°	9711.8	9739.4	9855.7	10122.0	10507.6	10819.8	10694.3	9822.0	8411.0	8218.2	6341.9
22.5°	10685.2	10700.5	10660.7	10694.3	10893.3	11254.5	11331.0	10642.3	9151.7	8946.6	6917.4
25°	12359.4	12365.5	12087.0	11823.8	11673.8	11741.1	11909.5	11398.3	9886.3	9684.3	7453.0
27.5°	14097.9	14119.4	13785.7	13338.9	12803.2	12497.1	12448.2	12090.1	10627.0	10403.6	7982.5
30°	15735.4	15735.4	15383.5	14838.6	14122.4	13525.6	13173.6	12787.9	11419.8	11174.9	8524.3
32.5°	17207.7	17195.4	16745.5	16154.8	15447.7	14792.7	14052.0	13516.4	12301.3	12028.8	9148.7
35°	18422.8	18392.2	17881.0	17314.8	16558.8	16072.1	15245.7	14299.9	13256.2	12983.8	9791.4
37.5°	19341.0	19307.4	18839.1	18239.2	17538.2	17223.0	16531.2	15239.6	14263.2	14015.3	10504.6
40°	19839.9	19772.6	19448.2	19001.3	18413.6	18138.2	17850.4	16405.8	15447.7	15138.6	11346.3
42.5°	19986.9	19907.3	19693.0	19484.9	19129.8	18912.5	19221.7	17721.9	16748.6	16482.3	12307.4
45°	19552.2	19506.3	19488.0	19637.9	19702.2	19763.4	20525.6	19178.8	18184.1	17982.1	13516.4
47.5°	18505.4	18493.2	18655.4	19279.8	19959.3	20605.1	21942.7	20975.5	20045.0	19827.7	15205.9
50°	16571.0	16696.5	17149.5	18245.3	19604.3	21082.6	23268.0	23467.0	23056.8	22738.5	17409.7
52.5°	13547.0	13788.8	14805.0	16470.0	18422.8	20947.9	23880.2	25462.6	25881.9	25551.4	18989.0
55°	10630.1	10856.6	11762.6	13874.5	16479.2	19922.6	23907.7	26151.3	27066.4	26760.4	20057.3
57.5°	7918.2	8126.4	8949.7	10969.8	13834.7	17905.5	23252.7	26533.9	28471.3	28275.4	21743.7
60°	5175.8	5380.8	6124.6	7890.7	10731.1	14967.2	21639.7	26454.3	30384.3	30366.0	23815.9
62.5°	2871.0	3033.2	3571.9	4949.3	7489.7	11591.2	19105.4	25655.4	32236.1	32352.4	25523.8
65°	1469.2	1573.2	1900.7	2721.0	4533.0	8218.2	15772.2	23825.1	33093.1	33386.9	25973.7
67.5°	961.1	994.8	1074.3	1414.1	2427.2	5169.6	11869.7	20889.8	31887.2	32230.0	24464.8
70°	780.5	808.0	854.0	942.7	1251.9	2745.5	7795.8	16684.3	26644.0	26876.7	19481.8
72.5°	572.4	609.1	697.9	756.0	902.9	1505.9	4055.5	10951.5	18297.3	18707.5	12243.1
75°	422.4	443.8	517.3	596.9	737.6	951.9	1551.8	5757.3	9448.6	9209.9	5142.1
77.5°	254.0	269.3	330.6	382.6	526.5	593.8	541.8	2127.2	2874.1	2702.7	1242.7
80°	125.5	140.8	217.3	287.7	336.7	238.7	226.5	593.8	639.7	639.7	312.2
82.5°	42.9	55.1	116.3	189.8	165.3	91.8	107.1	153.0	171.4	180.6	91.8
85°	0.0	0.0	27.5	55.1	24.5	12.2	27.5	33.7	42.9	45.9	30.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1	9.2	12.2	12.2
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°	3048.5	3048.5	3048.5	3048.5	3048.5	3048.5	3048.5	3048.5	3048.5	3048.5	3048.5
2.5°	3128.1	2984.3	2766.9	2571.1	2421.1	2280.3	2173.2	2087.4	2072.1	2023.2	2029.3
5°	3268.9	3008.7	2607.8	2298.6	2081.3	1934.4	1812.0	1720.2	1680.4	1640.6	1610.0
7.5°	3486.2	3109.7	2546.6	2170.1	1916.0	1689.5	1499.8	1346.7	1273.3	1227.4	1196.8
10°	3752.5	3250.5	2549.6	2093.6	1717.1	1371.2	1111.1	942.7	863.1	838.7	835.6
12.5°	4070.8	3428.1	2574.1	1968.1	1429.4	1019.2	823.3	746.8	722.3	700.9	700.9
15°	4407.5	3627.0	2574.1	1738.5	1089.6	795.8	713.2	664.2	633.6	621.3	615.2
17.5°	4762.6	3813.7	2512.9	1423.3	835.6	700.9	633.6	587.7	563.2	544.8	538.7
20°	5142.1	3991.3	2359.9	1089.6	716.2	627.5	563.2	517.3	492.8	474.4	474.4
22.5°	5527.8	4156.5	2111.9	838.7	633.6	557.1	495.8	453.0	428.5	410.1	410.1
25°	5885.9	4266.7	1793.6	691.7	572.4	495.8	440.8	397.9	370.4	358.1	352.0
27.5°	6219.5	4337.1	1441.6	609.1	514.2	443.8	385.7	345.9	324.4	315.3	309.1
30°	6565.4	4355.5	1101.9	554.0	465.2	391.8	336.7	306.1	287.7	275.5	275.5
32.5°	6902.0	4334.1	841.7	508.1	422.4	345.9	300.0	272.4	257.1	247.9	244.9
35°	7244.9	4236.1	682.6	468.3	379.5	303.0	266.3	244.9	235.7	223.4	223.4
37.5°	7618.3	4104.5	593.8	428.5	336.7	272.4	238.7	223.4	211.2	202.0	199.0
40°	8083.5	3951.5	544.8	394.8	296.9	244.9	214.3	199.0	189.8	180.6	177.5
42.5°	8634.4	3801.5	520.3	358.1	266.3	217.3	192.8	174.5	165.3	153.0	150.0
45°	9414.9	3767.8	492.8	318.3	238.7	195.9	168.3	150.0	137.7	128.6	125.5
47.5°	10669.9	3862.7	446.9	275.5	211.2	171.4	143.9	128.6	113.2	104.1	97.9
50°	11915.6	3838.2	401.0	238.7	186.7	146.9	122.4	107.1	91.8	82.6	79.6
52.5°	12595.1	3721.9	358.1	211.2	162.2	125.5	104.1	85.7	76.5	67.3	64.3
55°	13210.3	3676.0	315.3	183.6	137.7	110.2	85.7	70.4	64.3	55.1	52.0
57.5°	14416.3	3783.1	278.5	159.2	119.4	94.9	73.5	58.2	52.0	42.9	39.8
60°	15677.3	3795.4	238.7	137.7	104.1	79.6	58.2	45.9	39.8	30.6	27.5
62.5°	16335.4	3486.2	195.9	116.3	85.7	67.3	49.0	36.7	30.6	18.4	18.4
65°	15784.4	2819.0	165.3	94.9	67.3	52.0	36.7	27.5	18.4	9.2	3.1
67.5°	13969.4	2004.8	137.7	76.5	49.0	36.7	27.5	18.4	3.1	0.0	0.0
70°	10229.1	1144.7	107.1	55.1	36.7	24.5	18.4	9.2	0.0	0.0	0.0
72.5°	6286.8	612.2	79.6	36.7	27.5	18.4	15.3	6.1	0.0	0.0	0.0
75°	2384.3	293.8	49.0	24.5	21.4	15.3	9.2	3.1	0.0	0.0	0.0
77.5°	645.8	143.9	27.5	18.4	15.3	9.2	6.1	0.0	0.0	0.0	0.0
80°	168.3	67.3	18.4	12.2	9.2	6.1	0.0	0.0	0.0	0.0	0.0
82.5°	58.2	30.6	9.2	9.2	6.1	3.1	0.0	0.0	0.0	0.0	0.0
85°	24.5	12.2	6.1	6.1	3.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	3.1	3.1	3.1	3.1	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)