

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: P641354

Luminaire Tested: GWS-SA5F-760-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641354
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-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33960.6 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

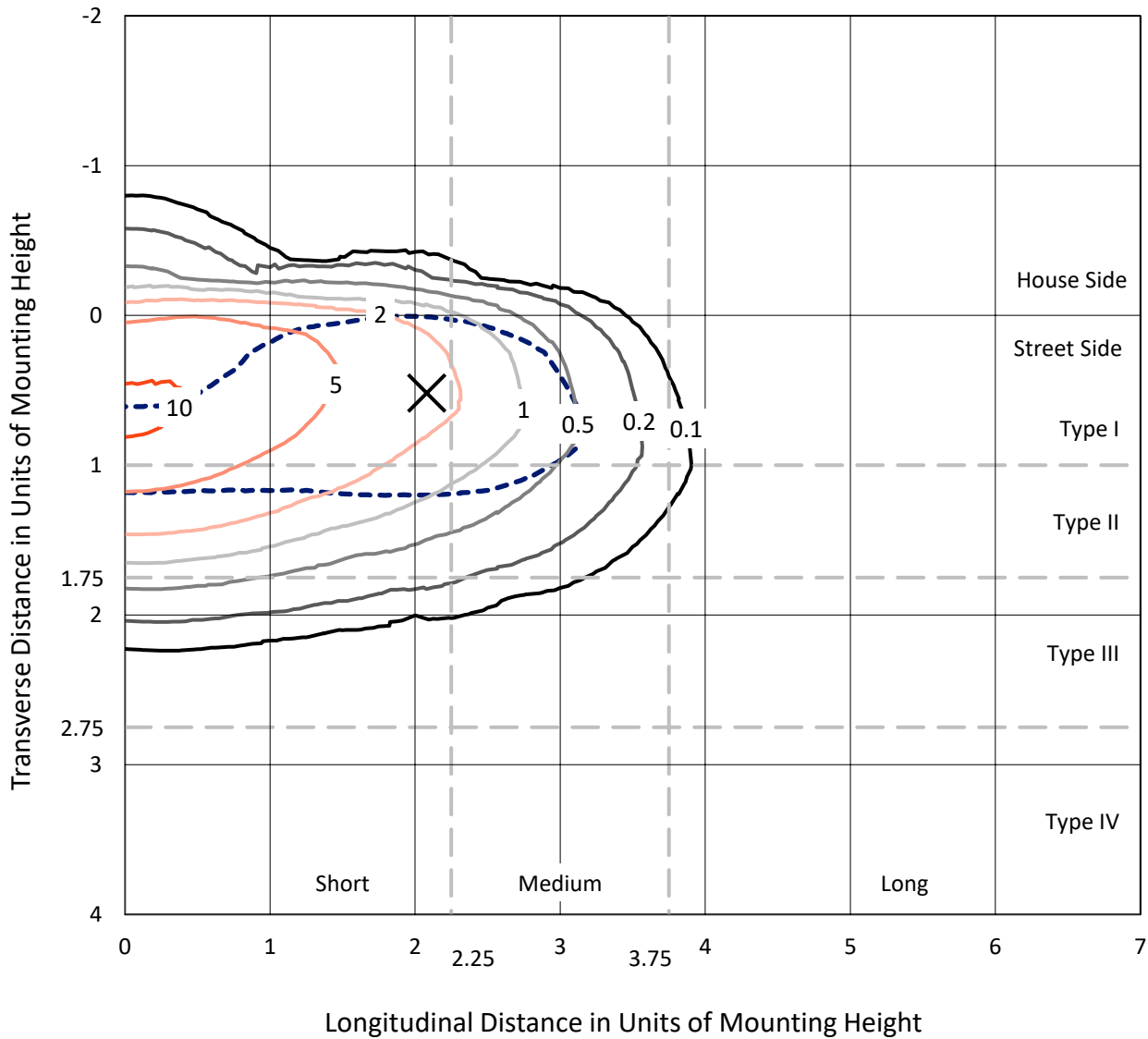
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

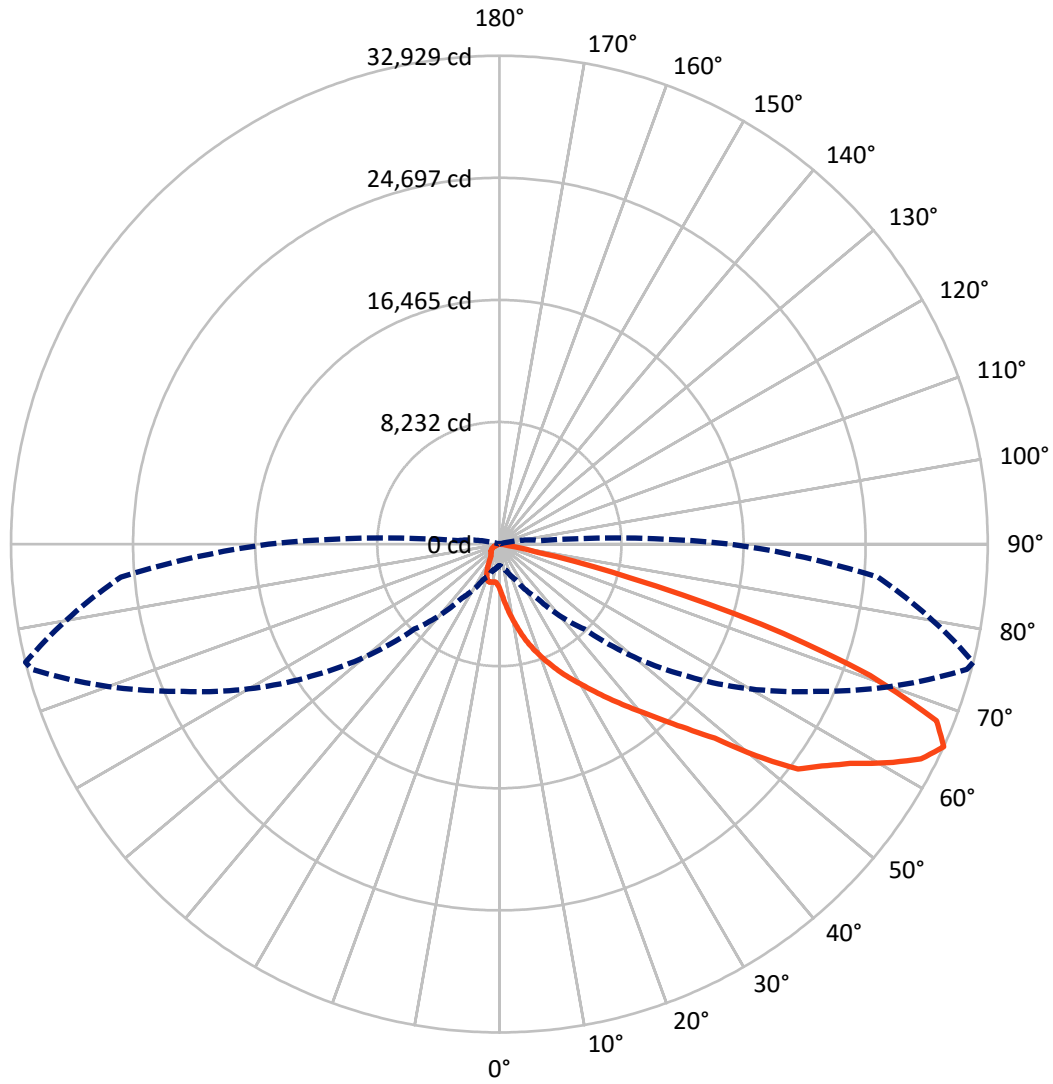
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.3 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	1877.8	0.0	1877.8
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	32082.8	0.0	32082.8
	% Fixture	94.5	0.0	94.5
Total	Lumens	33960.6	0.0	33960.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	365.8	1.1
10°-20°	1388.0	4.1
20°-30°	2831.7	8.3
30°-40°	5036.2	14.8
40°-50°	7444.7	21.9
50°-60°	8523.6	25.1
60°-70°	6503.1	19.1
70°-80°	1821.7	5.4
80°-90°	45.9	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°	33960.6	100.0
0°-180°	33960.6	100.0

Coefficient of Utilization



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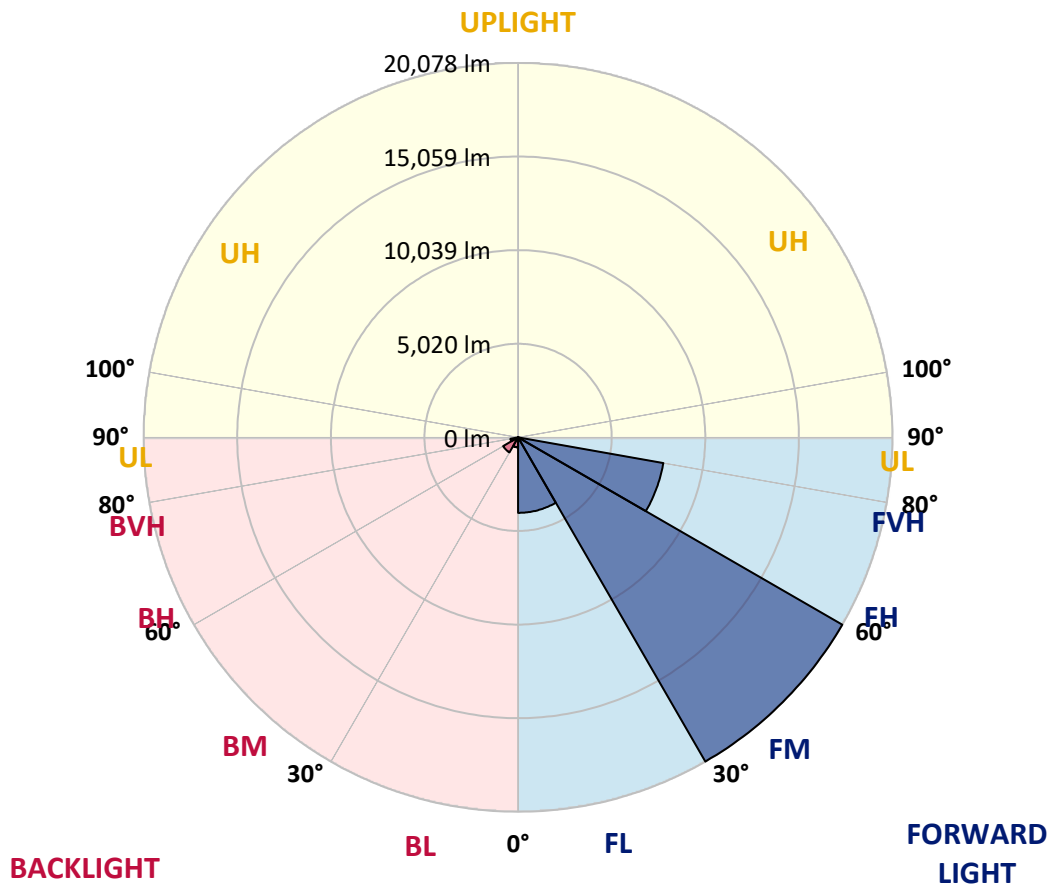
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4049.6	11.9			
FM (30°-60°)	20078.1	59.1			
FH (60°-80°)	7912.0	23.3			G4/12000
FVH (80°-90°)	43.2	0.1			G1/100
BL (0°-30°)	535.9	1.6	B2/1000		
BM (30°-60°)	926.5	2.7	B1/1000		
BH (60°-80°)	412.8	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°	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8
2.5°	4633.9	4703.3	4649.0	4558.4	4383.3	4214.3	3996.9	3698.1	3459.6	3429.4	3206.0
5°	6258.0	6252.0	6134.3	6016.5	5832.4	5542.6	5104.8	4549.4	4015.0	3969.8	3468.6
7.5°	7224.1	7233.1	7166.7	7076.1	6895.0	6596.1	6140.3	5470.1	4688.2	4597.7	3827.9
10°	8036.1	8033.1	7984.8	7942.5	7779.5	7580.3	7091.2	6354.6	5412.8	5270.9	4229.4
12.5°	8645.9	8667.1	8691.2	8733.5	8664.0	8467.8	8005.9	7202.9	6146.3	5989.4	4688.2
15°	9128.9	9135.0	9225.5	9388.6	9445.9	9343.3	8923.7	8024.0	6870.9	6735.0	5216.5
17.5°	9273.8	9285.9	9439.9	9738.7	10040.6	10098.0	9781.0	8851.2	7583.3	7438.4	5729.7
20°	9578.7	9605.9	9720.6	9983.3	10363.6	10671.6	10547.8	9687.4	8295.7	8105.6	6255.0
22.5°	10538.7	10553.8	10514.6	10547.8	10744.0	11100.2	11175.7	10496.5	9026.3	8824.0	6822.5
25°	12190.0	12196.1	11921.3	11661.7	11513.8	11580.2	11746.3	11242.1	9750.8	9551.6	7350.8
27.5°	13904.7	13925.8	13596.8	13156.0	12627.8	12325.9	12277.6	11924.4	10481.4	10261.0	7873.1
30°	15519.8	15519.8	15172.6	14635.3	13928.9	13340.2	12993.0	12612.7	11263.2	11021.7	8407.4
32.5°	16971.8	16959.8	16516.0	15933.4	15236.0	14590.0	13859.4	13331.1	12132.7	11864.0	9023.3
35°	18170.3	18140.1	17636.0	17077.5	16331.9	15851.9	15036.8	14104.0	13074.5	12805.9	9657.2
37.5°	19076.0	19042.8	18580.9	17989.2	17297.9	16986.9	16304.7	15030.7	14067.7	13823.2	10360.6
40°	19568.0	19501.6	19181.6	18740.9	18161.3	17889.6	17605.8	16180.9	15236.0	14931.1	11190.8
42.5°	19712.9	19634.5	19423.1	19217.9	18867.7	18653.3	18958.2	17479.0	16519.0	16256.4	12138.7
45°	19284.3	19239.0	19220.9	19368.8	19432.2	19492.6	20244.3	18916.0	17934.9	17735.6	13331.1
47.5°	18251.8	18239.8	18399.8	19015.6	19685.8	20322.7	21642.0	20688.0	19770.3	19556.0	14997.5
50°	16343.9	16467.7	16914.5	17995.2	19335.6	20793.7	22949.1	23145.3	22740.8	22426.9	17171.1
52.5°	13361.3	13599.8	14602.1	16244.3	18170.3	20660.9	23552.9	25113.6	25527.2	25201.2	18728.8
55°	10484.4	10707.8	11601.4	13684.3	16253.4	19649.5	23580.1	25792.9	26695.5	26393.6	19782.4
57.5°	7809.7	8015.0	8827.1	10819.5	13645.1	17660.1	22934.0	26170.2	28081.1	27887.9	21445.7
60°	5104.8	5307.1	6040.7	7782.5	10584.0	14762.1	21343.1	26091.7	29967.9	29949.8	23489.5
62.5°	2831.7	2991.7	3523.0	4881.4	7387.1	11432.3	18843.5	25303.8	31794.3	31909.0	25174.0
65°	1449.0	1551.7	1874.7	2683.7	4470.9	8105.6	15556.0	23498.6	32639.6	32929.4	25617.8
67.5°	947.9	981.1	1059.6	1394.7	2393.9	5098.8	11707.0	20603.5	31450.1	31788.2	24129.5
70°	769.8	797.0	842.3	929.8	1234.7	2707.9	7689.0	16455.6	26278.9	26508.3	19214.8
72.5°	564.5	600.7	688.3	745.7	890.6	1485.3	3999.9	10801.4	18046.5	18451.1	12075.3
75°	416.6	437.7	510.2	588.7	727.5	938.9	1530.5	5678.4	9319.1	9083.7	5071.6
77.5°	250.6	265.7	326.0	377.4	519.2	585.7	534.3	2098.1	2834.7	2665.6	1225.6
80°	123.8	138.9	214.3	283.8	332.1	235.5	223.4	585.7	630.9	630.9	307.9
82.5°	42.3	54.3	114.7	187.2	163.0	90.6	105.7	150.9	169.1	178.1	90.6
85°	0.0	0.0	27.2	54.3	24.2	12.1	27.2	33.2	42.3	45.3	30.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	9.1	12.1	12.1
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°	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8	3006.8
2.5°	3085.2	2943.4	2729.0	2535.8	2387.9	2249.0	2143.4	2058.8	2043.7	1995.4	2001.5
5°	3224.1	2967.5	2572.0	2267.1	2052.8	1907.9	1787.1	1696.6	1657.3	1618.1	1587.9
7.5°	3438.4	3067.1	2511.7	2140.3	1889.8	1666.4	1479.2	1328.3	1255.8	1210.5	1180.4
10°	3701.1	3206.0	2514.7	2064.9	1693.6	1352.4	1095.8	929.8	851.3	827.2	824.1
12.5°	4015.0	3381.1	2538.8	1941.1	1409.8	1005.3	812.1	736.6	712.4	691.3	691.3
15°	4347.1	3577.3	2538.8	1714.7	1074.7	784.9	703.4	655.1	624.9	612.8	606.8
17.5°	4697.3	3761.5	2478.5	1403.8	824.1	691.3	624.9	579.6	555.5	537.4	531.3
20°	5071.6	3936.6	2327.5	1074.7	706.4	618.9	555.5	510.2	486.0	467.9	467.9
22.5°	5452.0	4099.6	2083.0	827.2	624.9	549.4	489.0	446.8	422.6	404.5	404.5
25°	5805.2	4208.2	1769.0	682.3	564.5	489.0	434.7	392.4	365.3	353.2	347.2
27.5°	6134.3	4277.7	1421.9	600.7	507.2	437.7	380.4	341.1	320.0	310.9	304.9
30°	6475.4	4295.8	1086.8	546.4	458.9	386.4	332.1	301.9	283.8	271.7	271.7
32.5°	6807.5	4274.7	830.2	501.1	416.6	341.1	295.8	268.7	253.6	244.5	241.5
35°	7145.6	4178.1	673.2	461.9	374.3	298.9	262.6	241.5	232.4	220.4	220.4
37.5°	7513.9	4048.2	585.7	422.6	332.1	268.7	235.5	220.4	208.3	199.2	196.2
40°	7972.7	3897.3	537.4	389.4	292.8	241.5	211.3	196.2	187.2	178.1	175.1
42.5°	8516.1	3749.4	513.2	353.2	262.6	214.3	190.2	172.1	163.0	150.9	147.9
45°	9285.9	3716.2	486.0	314.0	235.5	193.2	166.0	147.9	135.8	126.8	123.8
47.5°	10523.6	3809.8	440.7	271.7	208.3	169.1	141.9	126.8	111.7	102.6	96.6
50°	11752.3	3785.6	395.5	235.5	184.1	144.9	120.8	105.7	90.6	81.5	78.5
52.5°	12422.5	3670.9	353.2	208.3	160.0	123.8	102.6	84.5	75.5	66.4	63.4
55°	13029.3	3625.6	310.9	181.1	135.8	108.7	84.5	69.4	63.4	54.3	51.3
57.5°	14218.7	3731.3	274.7	157.0	117.7	93.6	72.5	57.4	51.3	42.3	39.2
60°	15462.4	3743.3	235.5	135.8	102.6	78.5	57.4	45.3	39.2	30.2	27.2
62.5°	16111.5	3438.4	193.2	114.7	84.5	66.4	48.3	36.2	30.2	18.1	18.1
65°	15568.1	2780.3	163.0	93.6	66.4	51.3	36.2	27.2	18.1	9.1	3.0
67.5°	13777.9	1977.3	135.8	75.5	48.3	36.2	27.2	18.1	3.0	0.0	0.0
70°	10088.9	1129.0	105.7	54.3	36.2	24.2	18.1	9.1	0.0	0.0	0.0
72.5°	6200.7	603.8	78.5	36.2	27.2	18.1	15.1	6.0	0.0	0.0	0.0
75°	2351.7	289.8	48.3	24.2	21.1	15.1	9.1	3.0	0.0	0.0	0.0
77.5°	637.0	141.9	27.2	18.1	15.1	9.1	6.0	0.0	0.0	0.0	0.0
80°	166.0	66.4	18.1	12.1	9.1	6.0	0.0	0.0	0.0	0.0	0.0
82.5°	57.4	30.2	9.1	9.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0
85°	24.2	12.1	6.0	6.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	3.0	3.0	3.0	3.0	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)