

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: P641189

Luminaire Tested: GWS-SA5F-735-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641189
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-735-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) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33199.8 lumens
Efficiency: N/A
Efficacy: 107.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

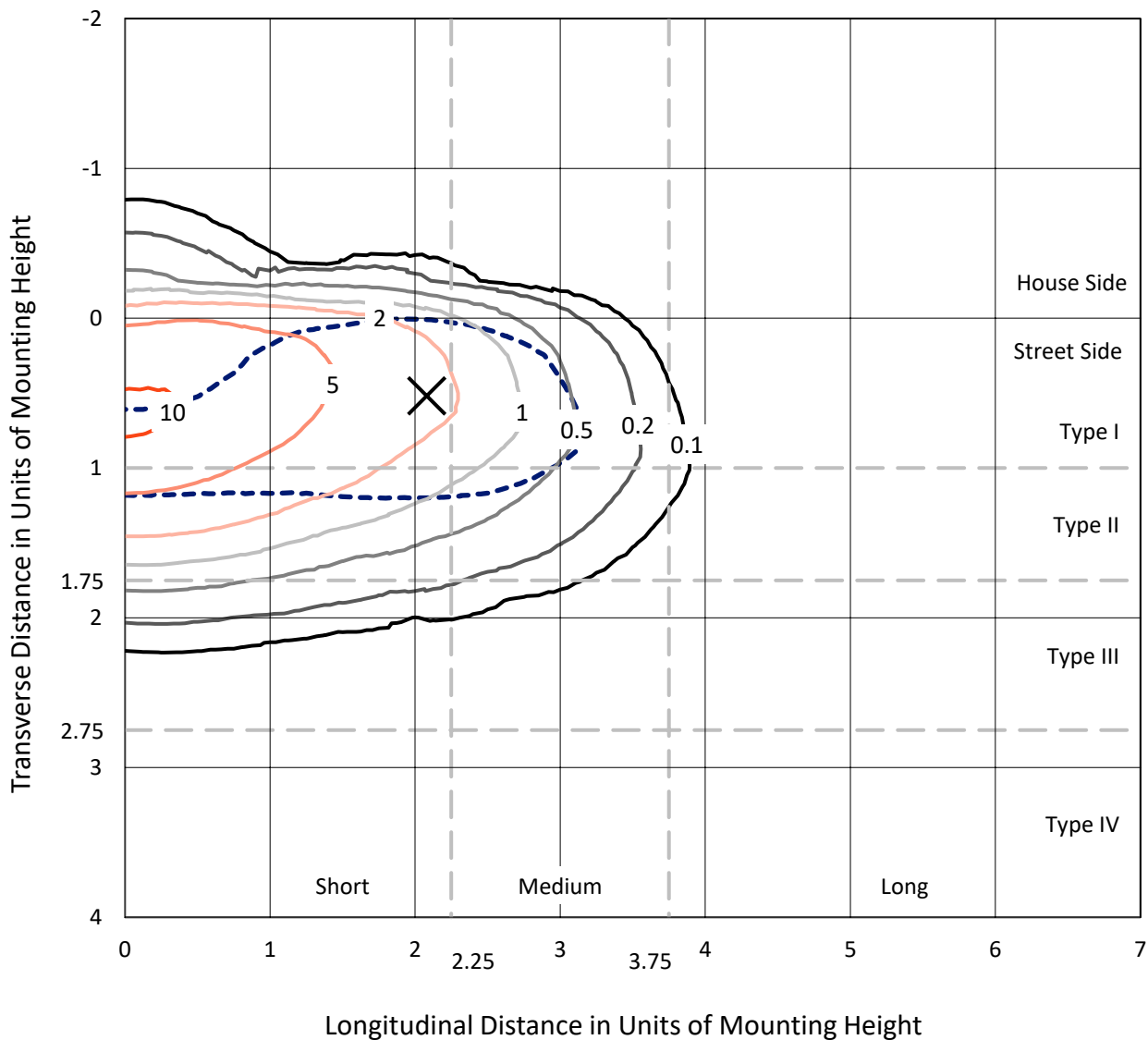
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GWS-SA5F-735-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

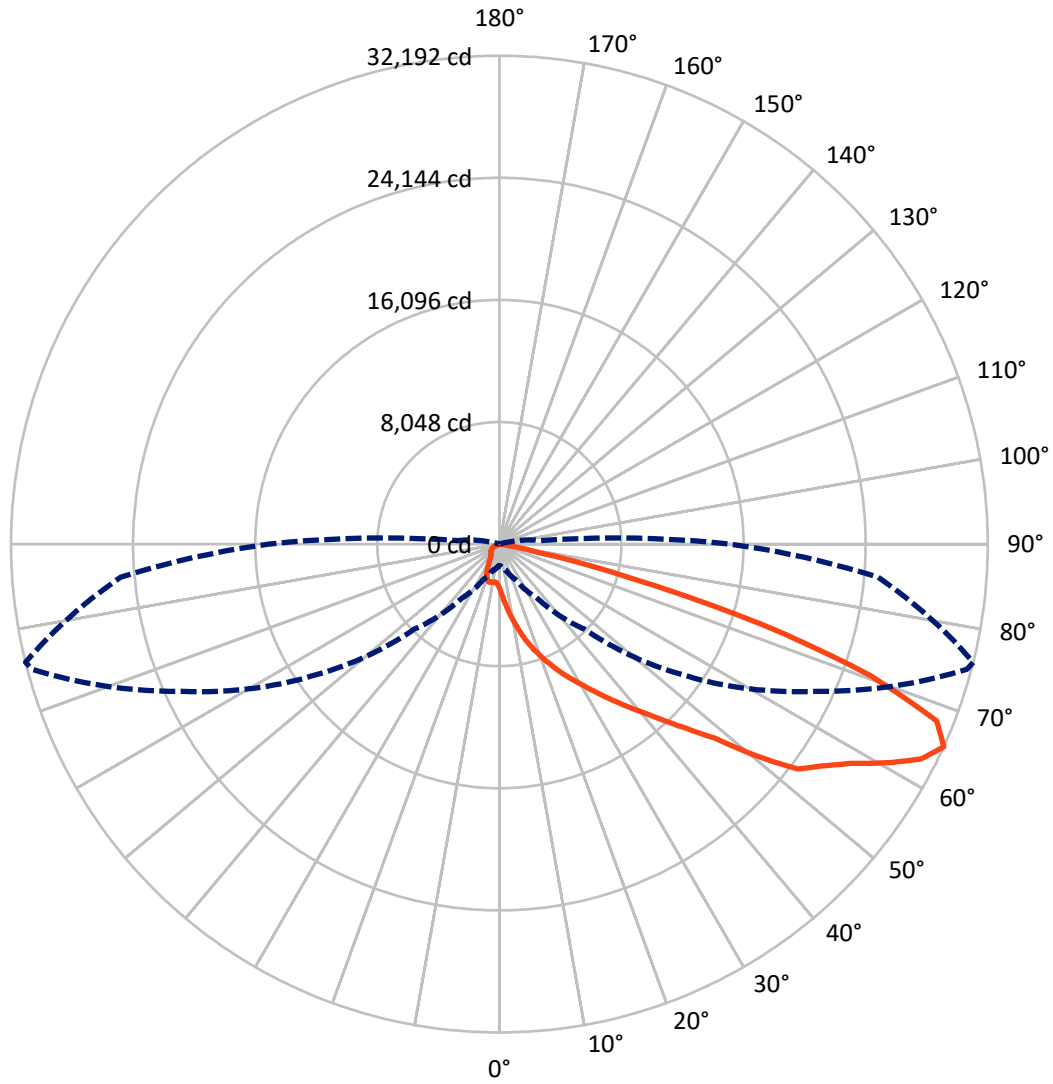
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.1 fc
 Type II - Short - N/A

REPORT NUMBER: P641189
CATALOG NUMBER: GWS-SA5F-735-U-T2R-W-HSS

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	1835.8	0.0	1835.8
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	31364.1	0.0	31364.1
	% Fixture	94.5	0.0	94.5
Total	Lumens	33199.8	0.0	33199.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	357.6	1.1
10°-20°	1356.9	4.1
20°-30°	2768.2	8.3
30°-40°	4923.4	14.8
40°-50°	7277.9	21.9
50°-60°	8332.7	25.1
60°-70°	6357.4	19.1
70°-80°	1780.9	5.4
80°-90°	44.8	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°	33199.8	100.0
0°-180°	33199.8	100.0

Coefficient of Utilization



REPORT NUMBER: P641189

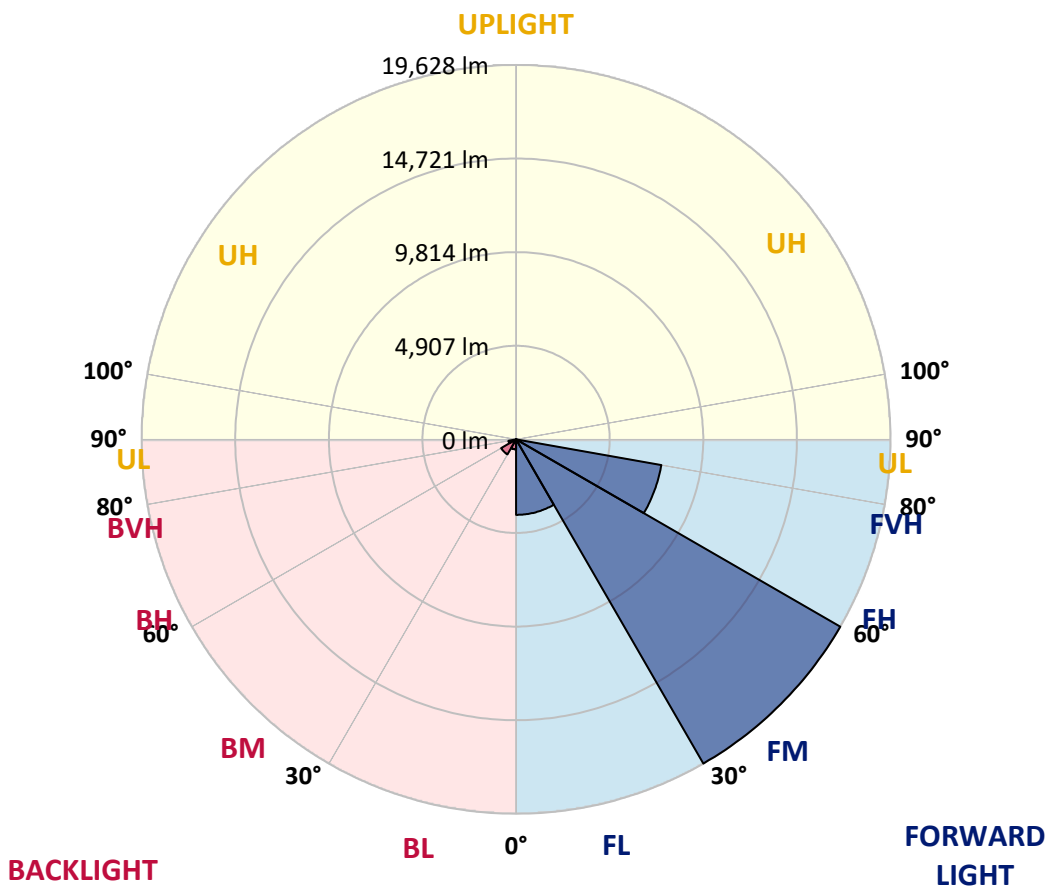
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3958.8	11.9			
FM (30°-60°)	19628.3	59.1			
FH (60°-80°)	7734.7	23.3			G4/12000
FVH (80°-90°)	42.2	0.1			G1/100
BL (0°-30°)	523.8	1.6	B2/1000		
BM (30°-60°)	905.7	2.7	B1/1000		
BH (60°-80°)	403.6	1.2	B1/500		G1/500
BVH (80°-90°)	2.6	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: P641189

CATALOG NUMBER: GWS-SA5F-735-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4
2.5°	4530.1	4598.0	4544.8	4456.3	4285.1	4119.9	3907.4	3615.2	3382.1	3352.6	3134.2
5°	6117.8	6111.9	5996.8	5881.7	5701.7	5418.4	4990.5	4447.5	3925.1	3880.8	3390.9
7.5°	7062.2	7071.1	7006.1	6917.6	6740.5	6448.4	6002.7	5347.6	4583.2	4494.7	3742.1
10°	7856.1	7853.1	7805.9	7764.6	7605.2	7410.5	6932.4	6212.3	5291.5	5152.8	4134.6
12.5°	8452.2	8472.9	8496.5	8537.8	8469.9	8278.1	7826.6	7041.6	6008.6	5855.2	4583.2
15°	8924.4	8930.3	9018.9	9178.2	9234.3	9134.0	8723.7	7844.3	6716.9	6584.1	5099.7
17.5°	9066.1	9077.9	9228.4	9520.6	9815.7	9871.8	9561.9	8652.9	7413.4	7271.8	5601.4
20°	9364.2	9390.7	9502.9	9759.6	10131.5	10432.5	10311.5	9470.4	8109.9	7924.0	6114.9
22.5°	10302.6	10317.4	10279.0	10311.5	10503.3	10851.6	10925.3	10261.3	8824.1	8626.4	6669.7
25°	11916.9	11922.8	11654.3	11400.5	11255.9	11320.8	11483.1	10990.3	9532.4	9337.6	7186.2
27.5°	13593.2	13613.9	13292.2	12861.3	12344.9	12049.7	12002.5	11657.2	10246.6	10031.1	7696.7
30°	15172.1	15172.1	14832.7	14307.4	13616.8	13041.3	12702.0	12330.1	11010.9	10774.8	8219.1
32.5°	16591.6	16579.8	16146.0	15576.4	14894.7	14263.1	13549.0	13032.5	11860.9	11598.2	8821.1
35°	17763.3	17733.7	17240.9	16694.9	15966.0	15496.7	14699.9	13788.0	12781.6	12519.0	9440.9
37.5°	18648.6	18616.2	18164.6	17586.2	16910.4	16606.4	15939.4	14694.0	13752.6	13513.5	10128.5
40°	19129.7	19064.7	18751.9	18321.0	17754.4	17488.8	17211.4	15818.4	14894.7	14596.6	10940.1
42.5°	19271.3	19194.6	18988.0	18787.3	18445.0	18235.5	18533.5	17087.4	16149.0	15892.2	11866.8
45°	18852.3	18808.0	18790.3	18934.9	18996.9	19055.9	19790.7	18492.2	17533.1	17338.3	13032.5
47.5°	17842.9	17831.1	17987.6	18589.6	19244.8	19867.5	21157.1	20224.6	19327.4	19117.9	14661.6
50°	15977.8	16098.8	16535.6	17592.1	18902.4	20327.9	22435.0	22626.8	22231.4	21924.5	16786.4
52.5°	13062.0	13295.1	14274.9	15880.4	17763.3	20198.0	23025.2	24551.0	24955.3	24636.6	18309.2
55°	10249.5	10467.9	11341.5	13377.8	15889.3	19209.3	23051.8	25215.0	26097.4	25802.3	19339.2
57.5°	7634.7	7835.4	8629.3	10577.1	13339.4	17264.5	22420.3	25583.9	27452.0	27263.2	20965.3
60°	4990.5	5188.2	5905.3	7608.2	10346.9	14431.4	20865.0	25507.2	29296.5	29278.8	22963.3
62.5°	2768.2	2924.6	3444.0	4772.1	7221.6	11176.2	18421.4	24736.9	31082.0	31194.2	24610.0
65°	1416.6	1516.9	1832.7	2623.6	4370.7	7924.0	15207.5	22972.1	31908.4	32191.7	25043.9
67.5°	926.7	959.1	1035.9	1363.5	2340.3	4984.6	11444.7	20141.9	30745.6	31076.1	23588.9
70°	752.6	779.1	823.4	909.0	1207.0	2647.2	7516.7	16087.0	25690.2	25914.5	18784.4
72.5°	551.9	587.3	672.9	728.9	870.6	1452.0	3910.3	10559.4	17642.3	18037.7	11804.8
75°	407.3	427.9	498.8	575.5	711.2	917.8	1496.3	5551.2	9110.3	8880.2	4958.0
77.5°	244.9	259.7	318.7	368.9	507.6	572.5	522.4	2051.1	2771.2	2605.9	1198.2
80°	121.0	135.8	209.5	277.4	324.6	230.2	218.4	572.5	616.8	616.8	301.0
82.5°	41.3	53.1	112.1	183.0	159.4	88.5	103.3	147.6	165.3	174.1	88.5
85°	0.0	0.0	26.6	53.1	23.6	11.8	26.6	32.5	41.3	44.3	29.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	8.9	11.8	11.8
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°	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4	2939.4
2.5°	3016.1	2877.4	2667.9	2479.0	2334.4	2198.6	2095.4	2012.7	1998.0	1950.7	1956.6
5°	3151.9	2901.0	2514.4	2216.3	2006.8	1865.2	1747.1	1658.6	1620.2	1581.8	1552.3
7.5°	3361.4	2998.4	2455.4	2092.4	1847.4	1629.1	1446.1	1298.5	1227.7	1183.4	1153.9
10°	3618.2	3134.2	2458.3	2018.6	1655.6	1322.1	1071.3	909.0	832.2	808.6	805.7
12.5°	3925.1	3305.3	2482.0	1897.6	1378.2	982.7	793.9	720.1	696.5	675.8	675.8
15°	4249.7	3497.2	2482.0	1676.3	1050.6	767.3	687.6	640.4	610.9	599.1	593.2
17.5°	4592.1	3677.2	2422.9	1372.3	805.7	675.8	610.9	566.6	543.0	525.3	519.4
20°	4958.0	3848.4	2275.4	1050.6	690.6	605.0	543.0	498.8	475.1	457.4	457.4
22.5°	5329.9	4007.7	2036.3	808.6	610.9	537.1	478.1	436.8	413.2	395.5	395.5
25°	5675.2	4114.0	1729.4	667.0	551.9	478.1	425.0	383.7	357.1	345.3	339.4
27.5°	5996.8	4181.8	1390.0	587.3	495.8	427.9	371.9	333.5	312.8	304.0	298.1
30°	6330.3	4199.6	1062.4	534.2	448.6	377.8	324.6	295.1	277.4	265.6	265.6
32.5°	6655.0	4178.9	811.6	489.9	407.3	333.5	289.2	262.7	247.9	239.0	236.1
35°	6985.5	4084.5	658.1	451.5	365.9	292.2	256.8	236.1	227.2	215.4	215.4
37.5°	7345.5	3957.6	572.5	413.2	324.6	262.7	230.2	215.4	203.6	194.8	191.8
40°	7794.1	3810.0	525.3	380.7	286.3	236.1	206.6	191.8	183.0	174.1	171.2
42.5°	8325.3	3665.4	501.7	345.3	256.8	209.5	185.9	168.2	159.4	147.6	144.6
45°	9077.9	3632.9	475.1	306.9	230.2	188.9	162.3	144.6	132.8	124.0	121.0
47.5°	10287.9	3724.4	430.9	265.6	203.6	165.3	138.7	124.0	109.2	100.3	94.4
50°	11489.0	3700.8	386.6	230.2	180.0	141.7	118.0	103.3	88.5	79.7	76.7
52.5°	12144.2	3588.7	345.3	203.6	156.4	121.0	100.3	82.6	73.8	64.9	62.0
55°	12737.4	3544.4	304.0	177.1	132.8	106.2	82.6	67.9	62.0	53.1	50.2
57.5°	13900.1	3647.7	268.6	153.5	115.1	91.5	70.8	56.1	50.2	41.3	38.4
60°	15116.0	3659.5	230.2	132.8	100.3	76.7	56.1	44.3	38.4	29.5	26.6
62.5°	15750.5	3361.4	188.9	112.1	82.6	64.9	47.2	35.4	29.5	17.7	17.7
65°	15219.3	2718.1	159.4	91.5	64.9	50.2	35.4	26.6	17.7	8.9	3.0
67.5°	13469.3	1933.0	132.8	73.8	47.2	35.4	26.6	17.7	3.0	0.0	0.0
70°	9862.9	1103.7	103.3	53.1	35.4	23.6	17.7	8.9	0.0	0.0	0.0
72.5°	6061.8	590.2	76.7	35.4	26.6	17.7	14.8	5.9	0.0	0.0	0.0
75°	2299.0	283.3	47.2	23.6	20.7	14.8	8.9	3.0	0.0	0.0	0.0
77.5°	622.7	138.7	26.6	17.7	14.8	8.9	5.9	0.0	0.0	0.0	0.0
80°	162.3	64.9	17.7	11.8	8.9	5.9	0.0	0.0	0.0	0.0	0.0
82.5°	56.1	29.5	8.9	8.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0
85°	23.6	11.8	5.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.9	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)