

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: P641464

Luminaire Tested: GWS-SA5F-830-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641464
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-830-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) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26740.1 lumens
Efficiency: N/A
Efficacy: 86.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

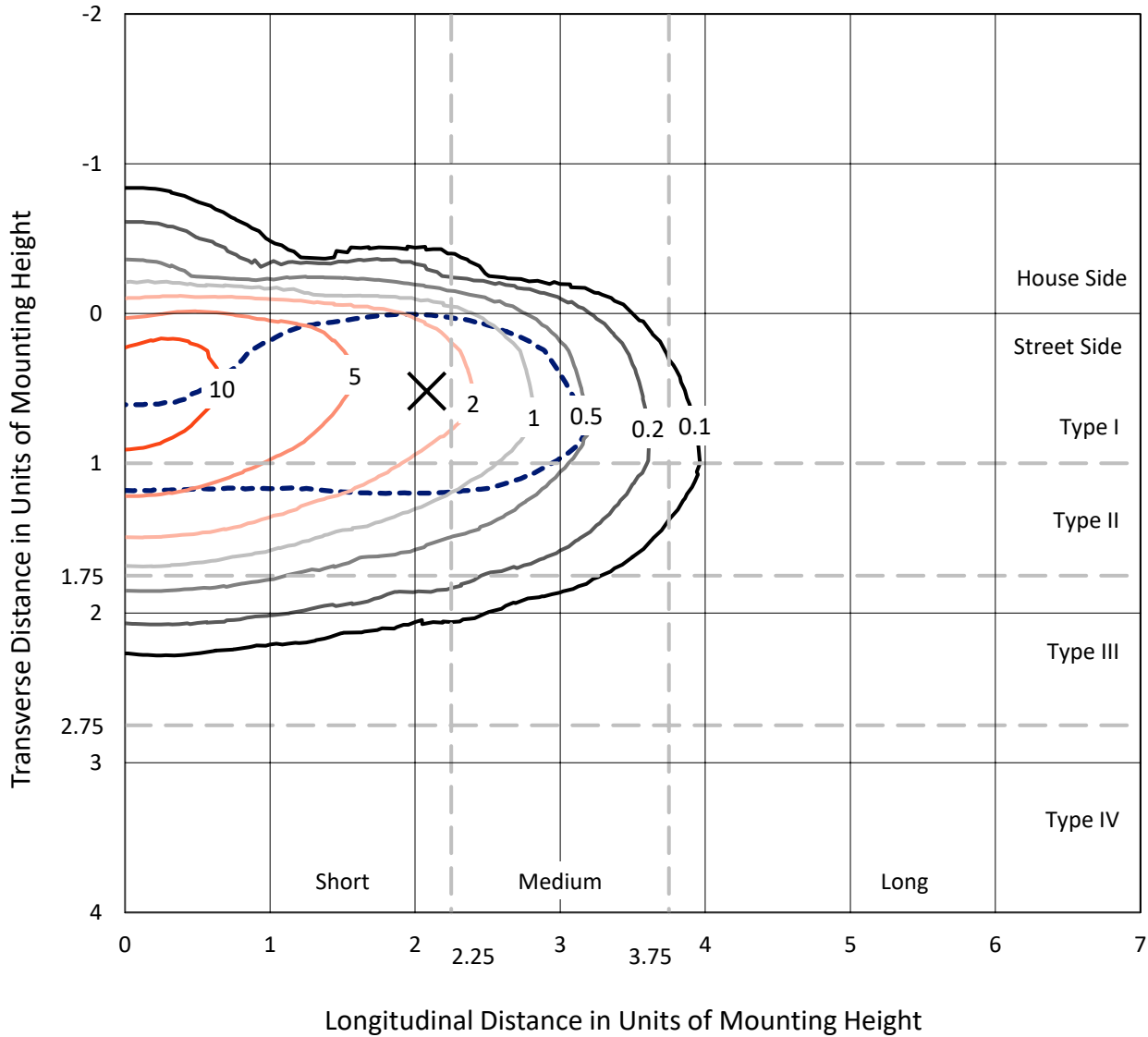
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641464
 CATALOG NUMBER: GWS-SA5F-830-U-T2R-W-HSS

Iso-Footcandle Lines of Horizontal Illumination

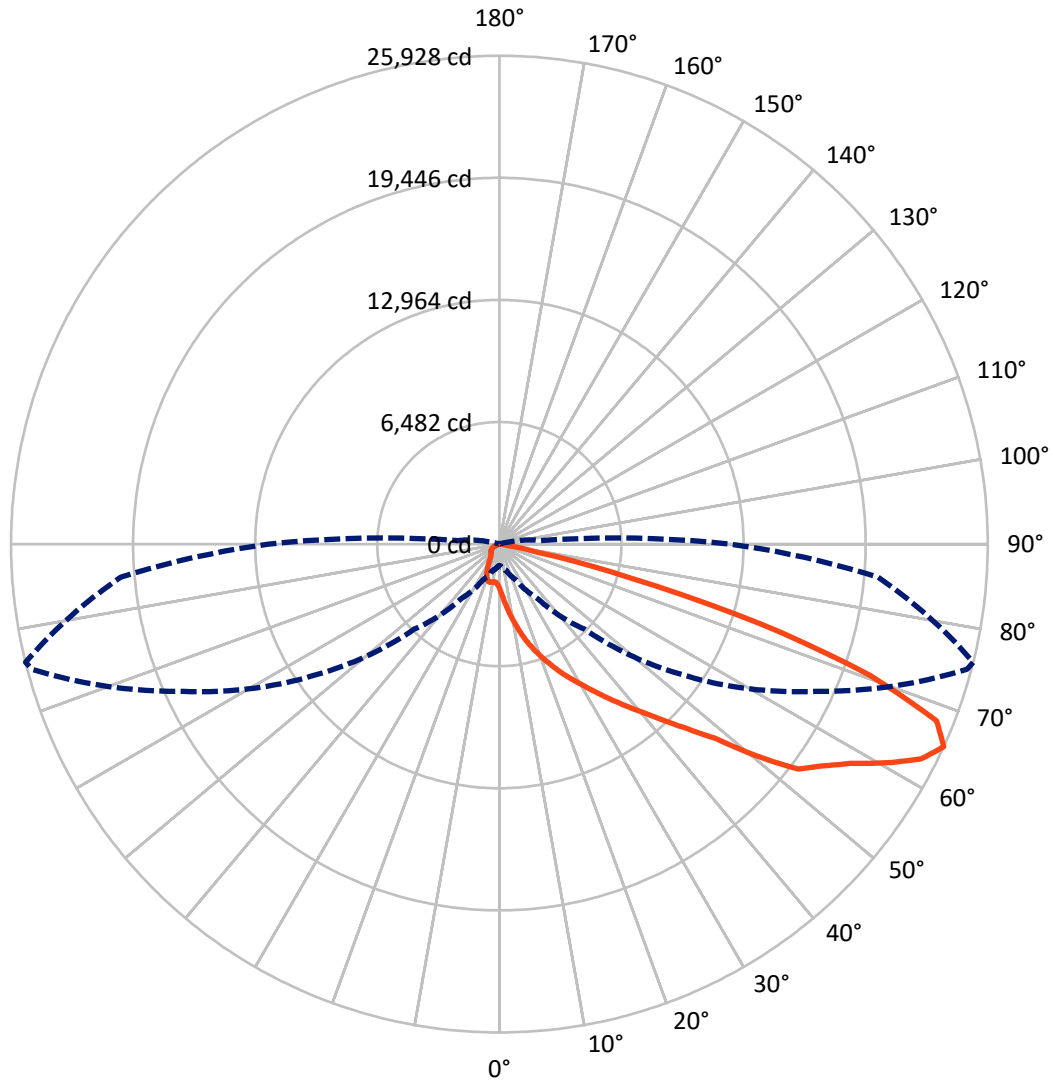
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

REPORT NUMBER: P641464
CATALOG NUMBER: GWS-SA5F-830-U-T2R-W-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P641464
 CATALOG NUMBER: GWS-SA5F-830-U-T2R-W-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1478.6	0.0	1478.6
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	25261.5	0.0	25261.5
	% Fixture	94.5	0.0	94.5
Total	Lumens	26740.1	0.0	26740.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.0	1.1
10°-20°	1092.9	4.1
20°-30°	2229.6	8.3
30°-40°	3965.4	14.8
40°-50°	5861.9	21.9
50°-60°	6711.4	25.1
60°-70°	5120.5	19.1
70°-80°	1434.3	5.4
80°-90°	36.1	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°	26740.1	100.0
0°-180°	26740.1	100.0

Coefficient of Utilization



REPORT NUMBER: P641464

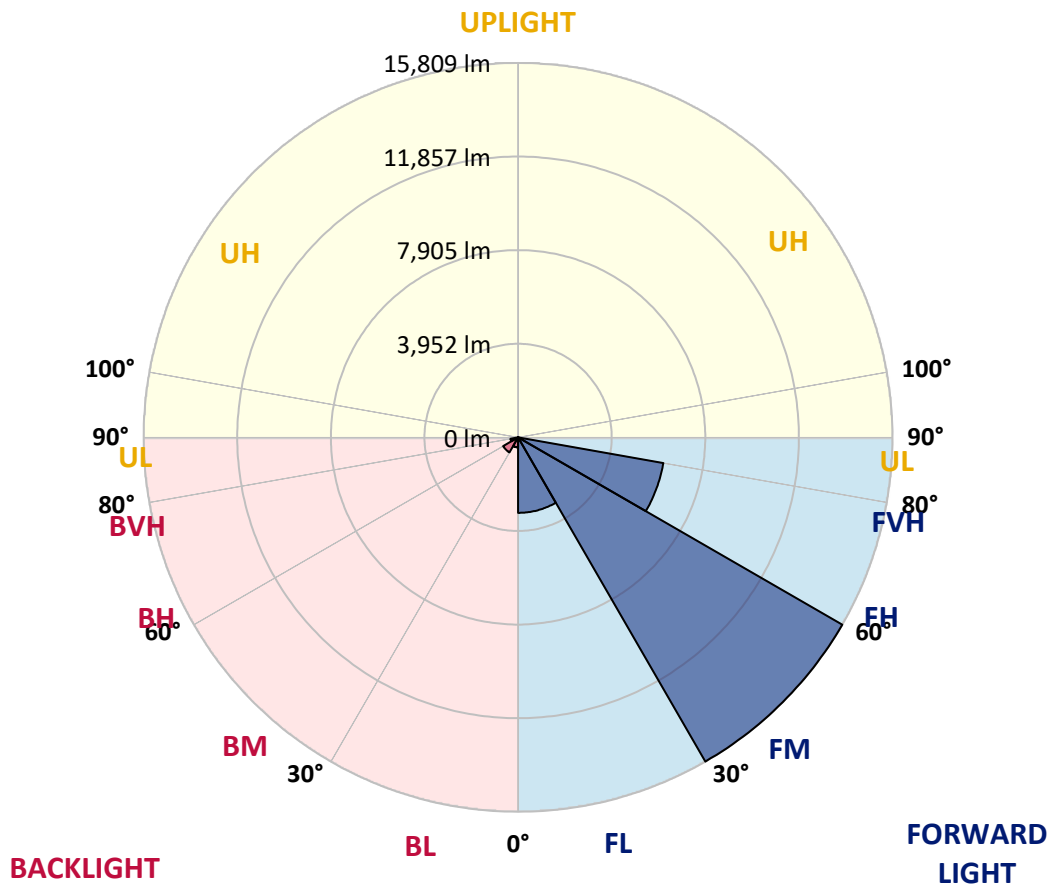
CATALOG NUMBER: GWS-SA5F-830-U-T2R-W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3188.6	11.9			
FM (30°-60°)	15809.2	59.1			
FH (60°-80°)	6229.8	23.3			G3/7500
FVH (80°-90°)	34.0	0.1			G1/100
BL (0°-30°)	421.9	1.6	B1/500		
BM (30°-60°)	729.5	2.7	B1/1000		
BH (60°-80°)	325.0	1.2	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





REPORT NUMBER: P641464

CATALOG NUMBER: GWS-SA5F-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5
2.5°	3648.7	3703.3	3660.6	3589.2	3451.4	3318.3	3147.1	2911.8	2724.0	2700.3	2524.4
5°	4927.5	4922.7	4830.0	4737.3	4592.3	4364.1	4019.5	3582.1	3161.4	3125.7	2731.2
7.5°	5688.1	5695.2	5643.0	5571.6	5429.0	5193.7	4834.8	4307.1	3691.5	3620.1	3014.0
10°	6327.5	6325.1	6287.1	6253.8	6125.5	5968.6	5583.5	5003.5	4261.9	4150.2	3330.2
12.5°	6807.7	6824.3	6843.3	6876.6	6821.9	6667.4	6303.8	5671.5	4839.5	4715.9	3691.5
15°	7188.0	7192.7	7264.1	7392.4	7437.6	7356.8	7026.4	6318.0	5410.0	5303.0	4107.4
17.5°	7302.1	7311.6	7432.8	7668.1	7905.8	7951.0	7701.4	6969.3	5971.0	5856.9	4511.5
20°	7542.2	7563.6	7653.9	7860.7	8160.2	8402.6	8305.2	7627.7	6531.9	6382.2	4925.1
22.5°	8298.0	8309.9	8279.0	8305.2	8459.7	8740.2	8799.6	8264.8	7107.2	6947.9	5372.0
25°	9598.3	9603.0	9386.7	9182.3	9065.8	9118.1	9248.8	8851.9	7677.7	7520.8	5788.0
27.5°	10948.4	10965.0	10705.9	10358.9	9942.9	9705.2	9667.2	9389.1	8252.9	8079.4	6199.2
30°	12220.1	12220.1	11946.7	11523.6	10967.4	10503.9	10230.5	9931.0	8868.5	8678.4	6619.9
32.5°	13363.4	13353.9	13004.5	12545.7	11996.6	11488.0	10912.7	10496.8	9553.1	9341.5	7104.8
35°	14307.1	14283.3	13886.3	13446.6	12859.5	12481.5	11839.7	11105.3	10294.7	10083.2	7604.0
37.5°	15020.1	14994.0	14630.3	14164.4	13620.1	13375.3	12838.1	11835.0	11076.7	10884.2	8157.8
40°	15407.6	15355.3	15103.3	14756.3	14299.9	14086.0	13862.6	12740.6	11996.6	11756.6	8811.5
42.5°	15521.7	15459.9	15293.5	15131.9	14856.1	14687.4	14927.4	13762.7	13006.8	12800.0	9557.8
45°	15184.2	15148.5	15134.2	15250.7	15300.6	15348.2	15940.0	14894.2	14121.7	13964.8	10496.8
47.5°	14371.2	14361.7	14487.7	14972.6	15500.3	16001.8	17040.6	16289.5	15566.9	15398.1	11808.8
50°	12869.0	12966.4	13318.2	14169.2	15224.6	16372.7	18069.8	18224.3	17905.8	17658.6	13520.3
52.5°	10520.5	10708.3	11497.5	12790.5	14307.1	16268.1	18545.2	19774.1	20099.8	19843.0	14746.8
55°	8255.3	8431.2	9134.7	10774.9	12797.7	15471.8	18566.6	20308.9	21019.7	20782.0	15576.4
57.5°	6149.3	6310.9	6950.3	8519.1	10744.0	13905.3	18057.9	20606.1	22110.7	21958.6	16886.1
60°	4019.5	4178.7	4756.3	6127.9	8333.7	11623.4	16805.3	20544.3	23596.3	23582.0	18495.3
62.5°	2229.6	2355.6	2773.9	3843.6	5816.5	9001.6	14837.1	19923.9	25034.4	25124.7	19821.7
65°	1141.0	1221.8	1476.1	2113.1	3520.3	6382.2	12248.6	18502.4	25699.9	25928.1	20171.1
67.5°	746.4	772.5	834.3	1098.2	1884.9	4014.7	9217.9	16222.9	24763.4	25029.6	18999.2
70°	606.1	627.5	663.2	732.1	972.2	2132.2	6054.2	12956.9	20691.6	20872.3	15129.5
72.5°	444.5	473.0	542.0	587.1	701.2	1169.5	3149.5	8504.8	14209.6	14528.1	9507.9
75°	328.0	344.7	401.7	463.5	572.9	739.2	1205.1	4471.1	7337.7	7152.3	3993.3
77.5°	197.3	209.2	256.7	297.1	408.8	461.1	420.7	1652.0	2232.0	2098.9	965.1
80°	97.5	109.3	168.8	223.4	261.5	185.4	175.9	461.1	496.8	496.8	242.5
82.5°	33.3	42.8	90.3	147.4	128.4	71.3	83.2	118.8	133.1	140.2	71.3
85°	0.0	0.0	21.4	42.8	19.0	9.5	21.4	26.1	33.3	35.7	23.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	7.1	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P641464
 CATALOG NUMBER: GWS-SA5F-830-U-T2R-W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5	2367.5
2.5°	2429.3	2317.6	2148.8	1996.7	1880.2	1770.9	1687.7	1621.1	1609.2	1571.2	1575.9
5°	2538.6	2336.6	2025.2	1785.1	1616.3	1502.3	1407.2	1335.9	1305.0	1274.1	1250.3
7.5°	2707.4	2415.0	1977.6	1685.3	1488.0	1312.1	1164.7	1045.9	988.8	953.2	929.4
10°	2914.2	2524.4	1980.0	1625.9	1333.5	1064.9	862.8	732.1	670.3	651.3	648.9
12.5°	3161.4	2662.2	1999.0	1528.4	1110.1	791.5	639.4	580.0	561.0	544.3	544.3
15°	3422.9	2816.7	1999.0	1350.1	846.2	618.0	553.8	515.8	492.0	482.5	477.8
17.5°	3698.6	2961.7	1951.5	1105.3	648.9	544.3	492.0	456.4	437.4	423.1	418.3
20°	3993.3	3099.6	1832.7	846.2	556.2	487.3	437.4	401.7	382.7	368.4	368.4
22.5°	4292.8	3227.9	1640.1	651.3	492.0	432.6	385.1	351.8	332.8	318.5	318.5
25°	4570.9	3313.5	1392.9	537.2	444.5	385.1	342.3	309.0	287.6	278.1	273.4
27.5°	4830.0	3368.2	1119.6	473.0	399.3	344.7	299.5	268.6	252.0	244.8	240.1
30°	5098.6	3382.4	855.7	430.2	361.3	304.3	261.5	237.7	223.4	213.9	213.9
32.5°	5360.1	3365.8	653.7	394.6	328.0	268.6	232.9	211.6	199.7	192.5	190.2
35°	5626.3	3289.7	530.1	363.7	294.7	235.3	206.8	190.2	183.0	173.5	173.5
37.5°	5916.3	3187.5	461.1	332.8	261.5	211.6	185.4	173.5	164.0	156.9	154.5
40°	6277.6	3068.7	423.1	306.6	230.6	190.2	166.4	154.5	147.4	140.2	137.9
42.5°	6705.5	2952.2	404.1	278.1	206.8	168.8	149.7	135.5	128.4	118.8	116.5
45°	7311.6	2926.1	382.7	247.2	185.4	152.1	130.7	116.5	107.0	99.8	97.5
47.5°	8286.2	2999.8	347.0	213.9	164.0	133.1	111.7	99.8	87.9	80.8	76.1
50°	9253.6	2980.7	311.4	185.4	145.0	114.1	95.1	83.2	71.3	64.2	61.8
52.5°	9781.3	2890.4	278.1	164.0	126.0	97.5	80.8	66.6	59.4	52.3	49.9
55°	10259.1	2854.8	244.8	142.6	107.0	85.6	66.6	54.7	49.9	42.8	40.4
57.5°	11195.6	2937.9	216.3	123.6	92.7	73.7	57.0	45.2	40.4	33.3	30.9
60°	12174.9	2947.5	185.4	107.0	80.8	61.8	45.2	35.7	30.9	23.8	21.4
62.5°	12686.0	2707.4	152.1	90.3	66.6	52.3	38.0	28.5	23.8	14.3	14.3
65°	12258.1	2189.2	128.4	73.7	52.3	40.4	28.5	21.4	14.3	7.1	2.4
67.5°	10848.5	1556.9	107.0	59.4	38.0	28.5	21.4	14.3	2.4	0.0	0.0
70°	7943.9	889.0	83.2	42.8	28.5	19.0	14.3	7.1	0.0	0.0	0.0
72.5°	4882.3	475.4	61.8	28.5	21.4	14.3	11.9	4.8	0.0	0.0	0.0
75°	1851.7	228.2	38.0	19.0	16.6	11.9	7.1	2.4	0.0	0.0	0.0
77.5°	501.5	111.7	21.4	14.3	11.9	7.1	4.8	0.0	0.0	0.0	0.0
80°	130.7	52.3	14.3	9.5	7.1	4.8	0.0	0.0	0.0	0.0	0.0
82.5°	45.2	23.8	7.1	7.1	4.8	2.4	0.0	0.0	0.0	0.0	0.0
85°	19.0	9.5	4.8	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.1	2.4	2.4	2.4	2.4	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)