

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: P640279

Luminaire Tested: GWS-SA5D-750-U-AFL-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-750-U-AFL-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25769.5 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

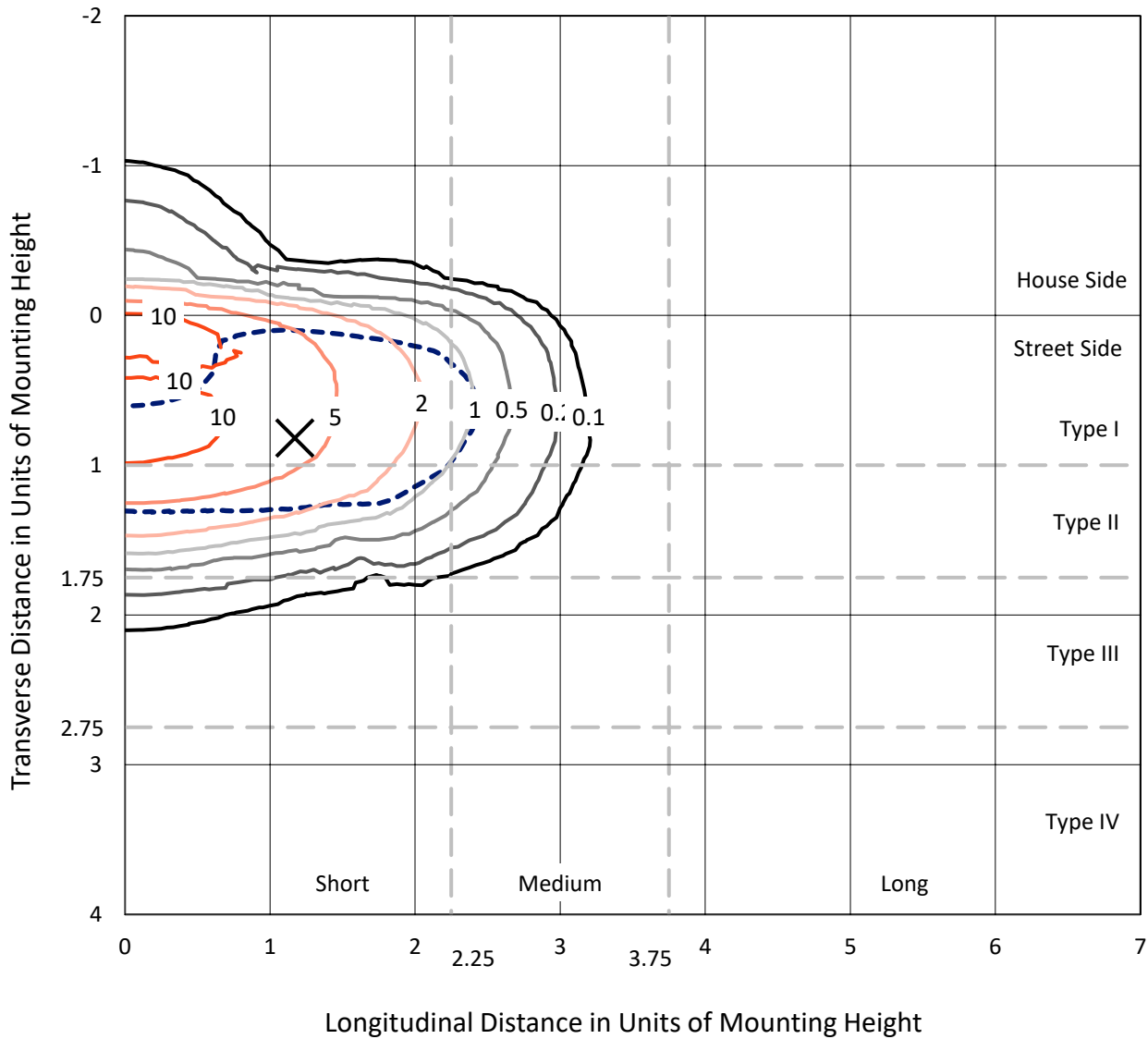
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

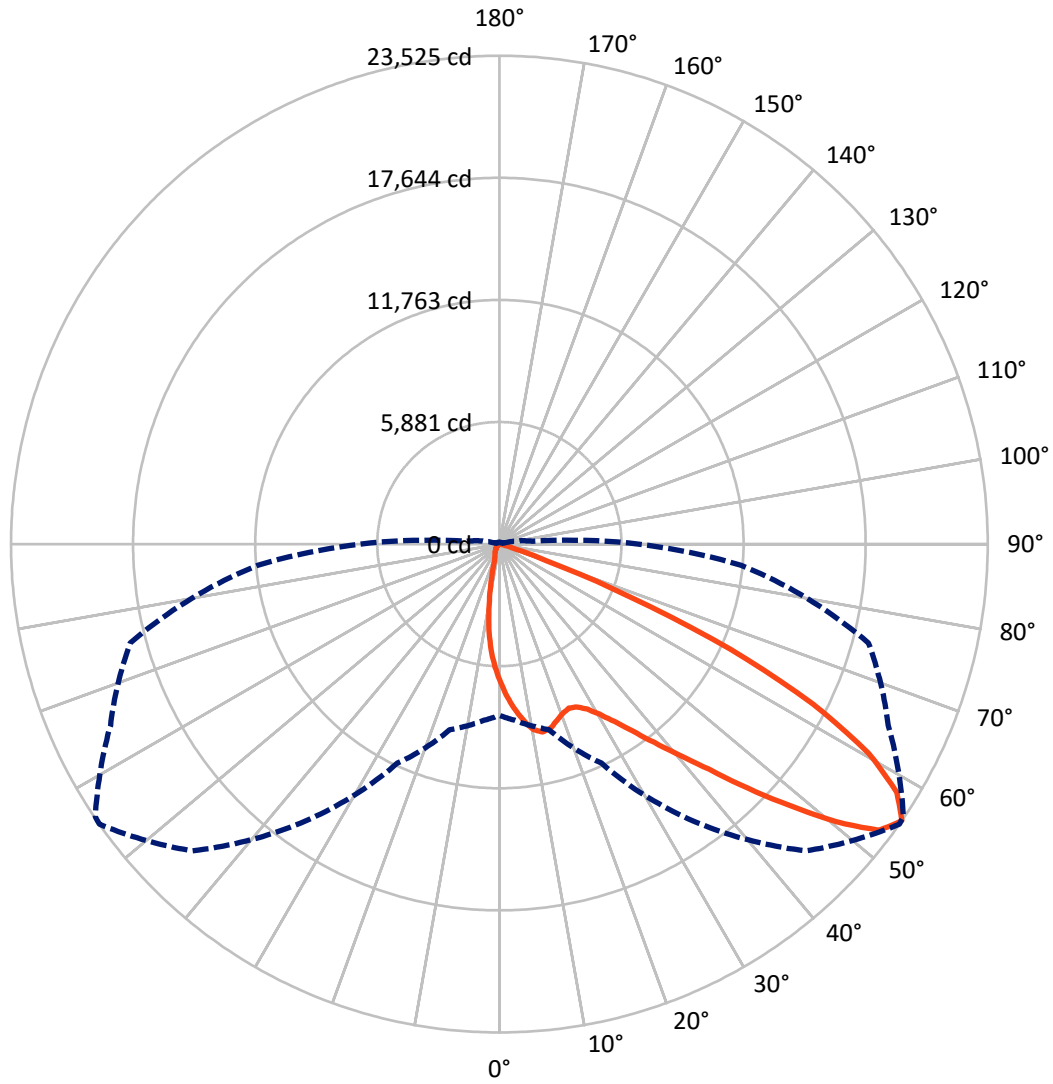
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1590.1	0.0	1590.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	24179.4	0.0	24179.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	25769.5	0.0	25769.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	588.3	2.3
10°-20°	1418.4	5.5
20°-30°	2362.3	9.2
30°-40°	4025.4	15.6
40°-50°	6570.9	25.5
50°-60°	6879.4	26.7
60°-70°	3469.8	13.5
70°-80°	438.3	1.7
80°-90°	16.6	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°	25769.5	100.0
0°-180°	25769.5	100.0

Coefficient of Utilization



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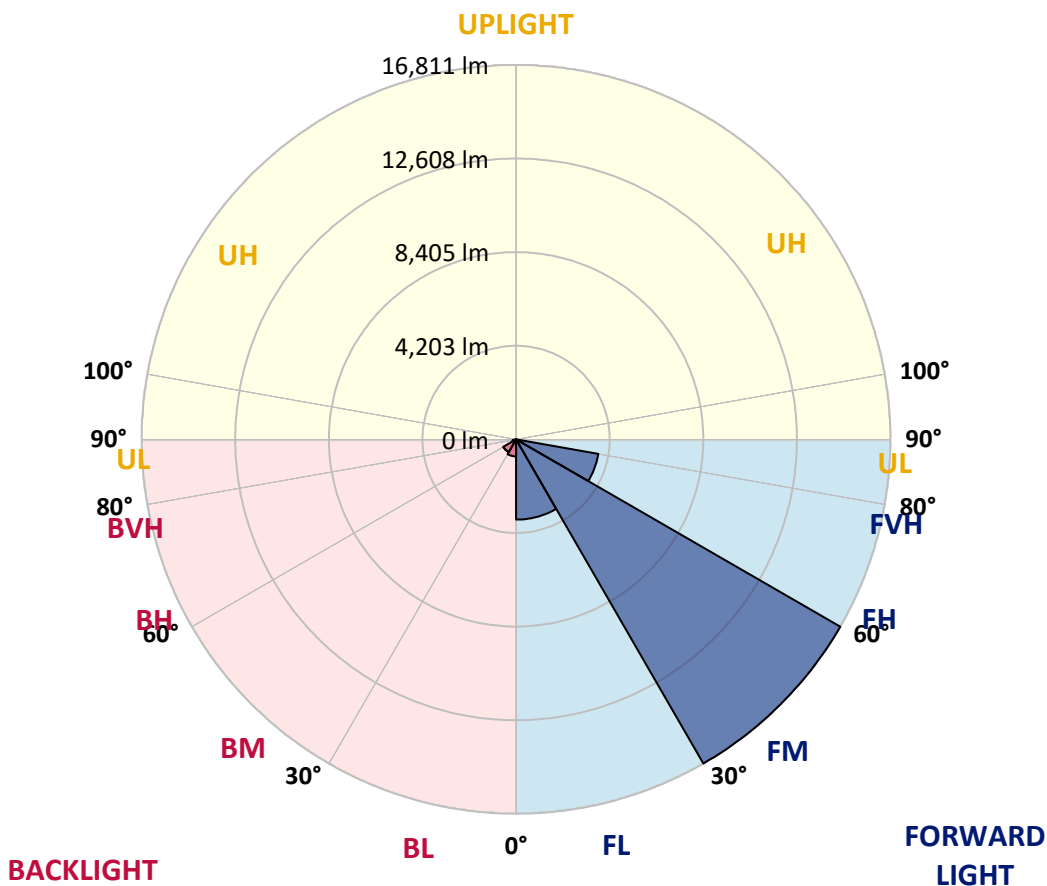
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3604.8	14.0			
FM (30°-60°)	16810.9	65.2			
FH (60°-80°)	3748.6	14.5			G2/5000
FVH (80°-90°)	15.1	0.1			G1/100
BL (0°-30°)	764.3	3.0	B2/1000		
BM (30°-60°)	664.8	2.6	B1/1000		
BH (60°-80°)	159.5	0.6	B1/500		G1/500
BVH (80°-90°)	1.5	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6657.3	6657.3	6657.3	6657.3	6657.3	6657.3	6657.3	6657.3	6657.3	6657.3	6657.3
2.5°	7761.0	7723.6	7780.8	7714.7	7602.4	7507.7	7384.3	7340.2	7142.0	6954.7	6774.1
5°	8703.9	8714.9	8697.3	8604.7	8446.1	8269.9	8021.0	7965.9	7620.0	7263.1	6877.6
7.5°	8937.4	8930.8	8968.2	9003.5	8977.0	8888.9	8618.0	8562.9	8133.3	7598.0	7036.2
10°	8217.0	8221.4	8298.5	8536.4	8831.6	9137.9	9096.0	9065.2	8644.4	7976.9	7212.5
12.5°	7199.3	7238.9	7320.4	7659.7	8159.7	8855.9	9287.7	9318.5	9113.6	8393.3	7419.6
15°	6758.7	6767.5	6833.6	7038.4	7410.7	8269.9	9206.1	9292.1	9505.8	8811.8	7644.3
17.5°	6747.7	6758.7	6787.3	6877.6	7119.9	7809.5	8944.0	9093.8	9800.9	9261.2	7913.0
20°	7161.8	7155.2	7135.4	7086.9	7192.6	7657.5	8701.7	8866.9	9961.8	9699.6	8184.0
22.5°	7913.0	7904.2	7816.1	7615.6	7529.7	7796.3	8582.7	8732.5	10058.7	10089.5	8406.5
25°	8778.8	8840.5	8675.2	8371.2	8159.7	8150.9	8688.5	8794.2	10142.4	10435.4	8558.5
27.5°	9728.2	9748.1	9607.1	9265.6	8959.4	8719.3	8994.7	9074.0	10234.9	10743.8	8644.4
30°	10770.2	10763.6	10602.8	10206.3	9834.0	9488.1	9510.2	9541.0	10450.8	11096.3	8739.1
32.5°	12072.2	12100.8	11814.4	11274.7	10827.5	10349.5	10184.3	10188.7	10840.7	11550.1	8882.3
35°	13841.2	13770.7	13391.8	12622.9	11860.7	11345.2	11063.2	11039.0	11442.1	12160.3	9131.2
37.5°	15526.4	15533.0	15136.5	14290.6	13327.9	12515.0	12116.3	12050.2	12288.1	13006.2	9545.4
40°	16696.2	16718.2	16553.0	16110.2	15090.2	13940.3	13354.3	13286.0	13385.2	14076.9	10087.3
42.5°	17315.2	17376.9	17423.2	17526.7	16753.5	15720.3	14819.3	14812.7	14709.1	15297.3	10715.2
45°	17339.5	17432.0	17714.0	18421.1	18509.2	17751.4	16771.1	16623.5	16224.8	16603.7	11276.9
47.5°	16381.2	16594.9	17194.1	18595.1	19520.4	19771.5	18800.0	18709.7	17590.6	17636.9	11697.7
50°	14147.4	14369.9	15473.6	17702.9	19775.9	21375.3	21027.2	20840.0	18731.7	18319.8	11900.4
52.5°	11856.3	12059.0	12808.0	15579.3	18716.3	21879.7	22904.1	22681.6	19756.1	18557.7	11816.6
55°	8250.1	8521.0	9252.4	11644.8	16275.4	20897.2	23525.4	23479.1	20670.3	18407.9	11686.7
57.5°	4044.6	4313.4	5042.6	7179.4	12056.8	18244.9	22575.9	22820.4	21216.7	18247.1	11580.9
60°	1689.7	1799.8	2051.0	3150.2	6745.4	13788.3	20432.4	20771.7	20881.8	18029.0	11569.9
62.5°	980.3	997.9	1024.4	1306.4	2623.7	7904.2	16949.5	17432.0	19121.6	17740.4	11395.9
65°	740.2	746.8	735.8	801.9	1083.9	2998.2	12246.2	12902.7	15960.4	16612.5	10708.6
67.5°	608.0	608.0	579.4	592.6	680.7	1123.5	6760.9	7677.3	11810.0	13653.9	8842.7
70°	484.7	495.7	482.4	464.8	486.9	621.2	2405.6	2982.8	6877.6	8062.8	5157.1
72.5°	367.9	367.9	389.9	376.7	361.3	389.9	839.3	942.9	2760.3	3361.7	1861.5
75°	284.2	293.0	308.4	295.2	273.2	231.3	403.1	427.4	832.7	782.0	416.4
77.5°	145.4	147.6	196.1	215.9	202.7	141.0	176.2	193.9	271.0	242.3	154.2
80°	88.1	92.5	110.1	169.6	134.4	74.9	72.7	77.1	127.8	110.1	63.9
82.5°	37.5	39.7	61.7	61.7	55.1	28.6	28.6	28.6	61.7	57.3	26.4
85°	0.0	0.0	11.0	8.8	8.8	11.0	11.0	11.0	15.4	22.0	13.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.6	6.6
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°	6657.3	6657.3	6657.3	6657.3	6657.3	6657.3	6657.3	6657.3	6657.3	6657.3	6657.3
2.5°	6657.3	6516.3	6326.9	6155.1	5923.7	5793.8	5613.1	5465.5	5340.0	5300.3	5282.7
5°	6659.5	6417.2	6011.9	5606.5	5108.7	4716.5	4313.4	3994.0	3731.8	3648.1	3626.1
7.5°	6703.6	6346.7	5690.2	4954.4	4121.7	3434.4	2819.8	2269.0	2013.5	1927.6	1910.0
10°	6763.1	6287.2	5317.9	4172.4	2976.2	2092.8	1482.6	1130.1	962.7	870.2	883.4
12.5°	6840.2	6238.8	4906.0	3326.5	1969.4	1149.9	815.1	682.9	647.7	630.0	621.2
15°	6943.7	6181.5	4394.9	2487.1	1207.2	740.2	627.8	592.6	579.4	570.6	568.4
17.5°	7049.5	6115.4	3875.0	1749.1	801.9	614.6	564.0	546.3	537.5	530.9	528.7
20°	7161.8	6003.1	3264.8	1205.0	632.2	552.9	519.9	500.1	489.1	478.0	475.8
22.5°	7210.3	5822.4	2681.0	843.7	561.8	508.9	467.0	442.8	429.6	420.8	420.8
25°	7164.0	5529.4	2077.4	641.1	511.1	460.4	418.6	392.1	381.1	372.3	372.3
27.5°	7040.6	5152.7	1515.6	530.9	456.0	409.7	370.1	345.9	337.1	332.6	332.6
30°	6904.1	4676.9	1068.4	456.0	394.3	356.9	323.8	308.4	306.2	301.8	301.8
32.5°	6787.3	4231.9	735.8	400.9	348.1	310.6	288.6	282.0	284.2	279.8	282.0
35°	6723.4	3795.7	546.3	356.9	310.6	275.4	264.4	264.4	264.4	262.2	262.2
37.5°	6749.9	3366.1	445.0	326.0	277.6	251.1	240.1	244.5	248.9	248.9	248.9
40°	6882.0	2985.0	394.3	297.4	248.9	229.1	220.3	226.9	233.5	237.9	237.9
42.5°	7049.5	2676.6	356.9	273.2	229.1	207.1	202.7	209.3	215.9	220.3	220.3
45°	7155.2	2366.0	319.4	242.3	209.3	182.8	182.8	191.7	189.5	191.7	191.7
47.5°	7203.7	2119.2	282.0	209.3	178.4	158.6	160.8	165.2	160.8	165.2	165.2
50°	7084.7	1870.3	248.9	174.0	147.6	138.8	143.2	141.0	141.0	149.8	149.8
52.5°	6866.6	1685.3	220.3	147.6	125.6	123.4	127.8	119.0	121.2	121.2	119.0
55°	6705.8	1579.5	196.1	127.8	107.9	110.1	107.9	92.5	83.7	74.9	72.7
57.5°	6626.5	1537.7	178.4	114.6	96.9	96.9	88.1	63.9	48.5	37.5	33.0
60°	6608.9	1487.0	160.8	99.1	85.9	81.5	63.9	37.5	24.2	17.6	15.4
62.5°	6441.4	1363.6	145.4	79.3	74.9	66.1	39.7	22.0	13.2	8.8	6.6
65°	5892.9	1121.3	130.0	61.7	57.3	48.5	24.2	13.2	6.6	2.2	0.0
67.5°	4687.9	795.3	114.6	46.3	39.7	30.8	15.4	8.8	2.2	0.0	0.0
70°	2703.0	429.6	94.7	33.0	26.4	19.8	11.0	4.4	0.0	0.0	0.0
72.5°	903.2	200.5	72.7	22.0	19.8	15.4	6.6	2.2	0.0	0.0	0.0
75°	198.3	119.0	48.5	15.4	13.2	11.0	4.4	0.0	0.0	0.0	0.0
77.5°	74.9	83.7	24.2	11.0	8.8	6.6	2.2	0.0	0.0	0.0	0.0
80°	28.6	55.1	11.0	6.6	6.6	2.2	0.0	0.0	0.0	0.0	0.0
82.5°	15.4	22.0	6.6	4.4	4.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.8	11.0	4.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.2	2.2	2.2	0.0	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)