

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: P639344

Luminaire Tested: GWS-SA5B-760-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639344  
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-SA5B-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

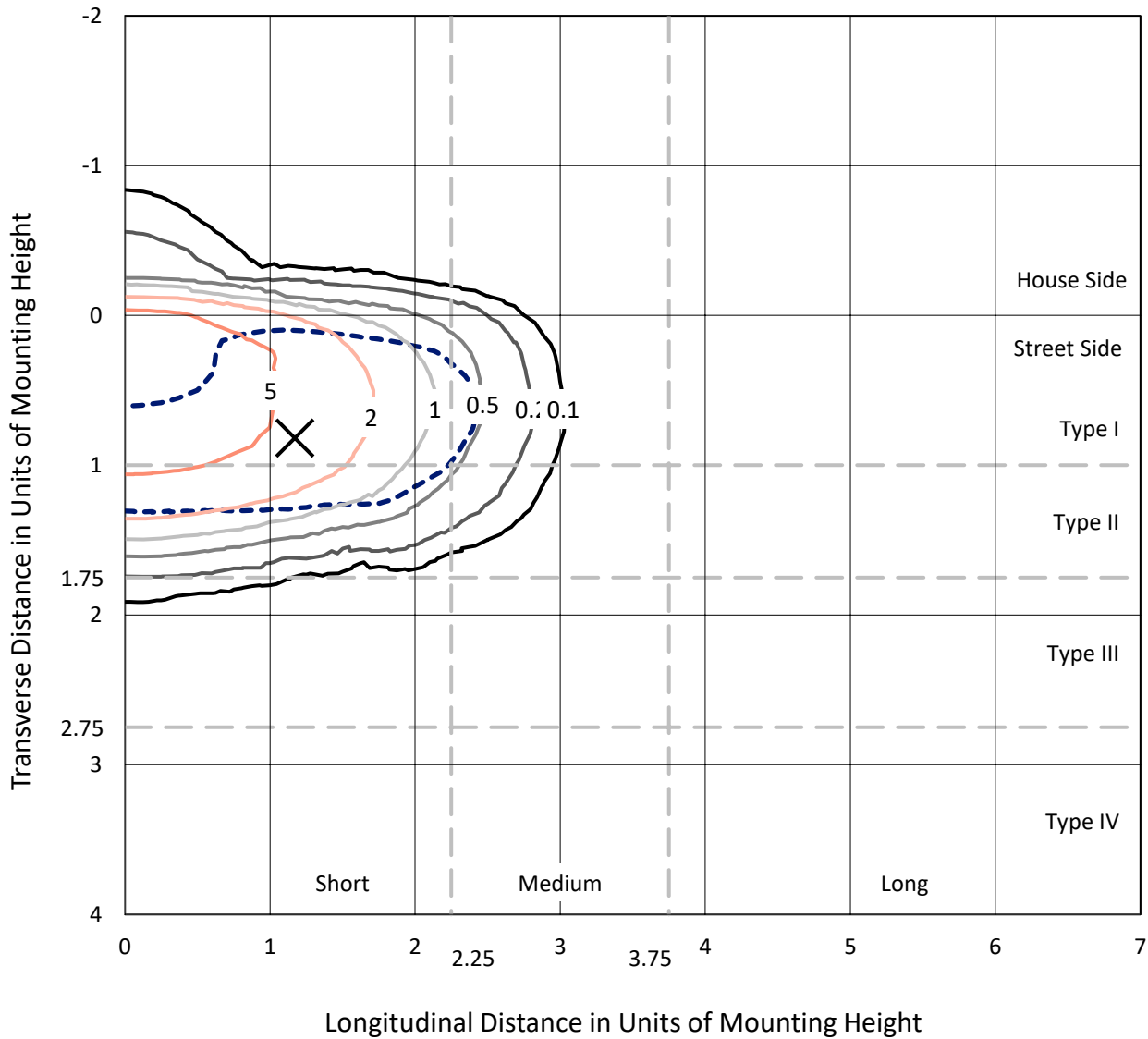
Lumens per Lamp: N/A  
Luminaire Lumens: 15022.4 lumens  
Efficiency: N/A  
Efficacy: 129.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

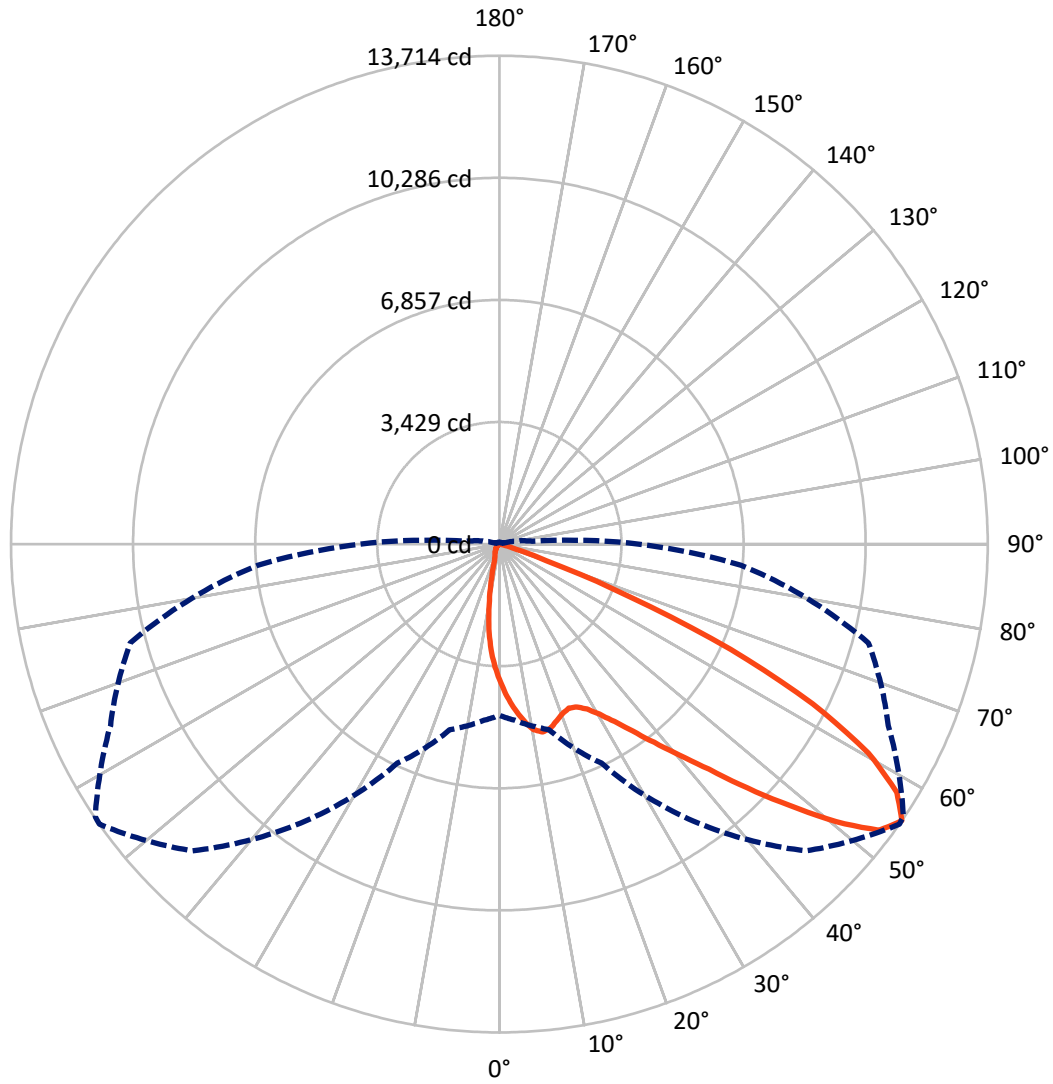
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 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
<b>House Side</b>	Lumens	926.9	0.0	926.9
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	14095.4	0.0	14095.4
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	15022.4	0.0	15022.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	343.0	2.3
10°-20°	826.9	5.5
20°-30°	1377.1	9.2
30°-40°	2346.6	15.6
40°-50°	3830.5	25.5
50°-60°	4010.4	26.7
60°-70°	2022.7	13.5
70°-80°	255.5	1.7
80°-90°	9.7	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°	15022.4	100.0
0°-180°	15022.4	100.0

**Coefficient of Utilization**



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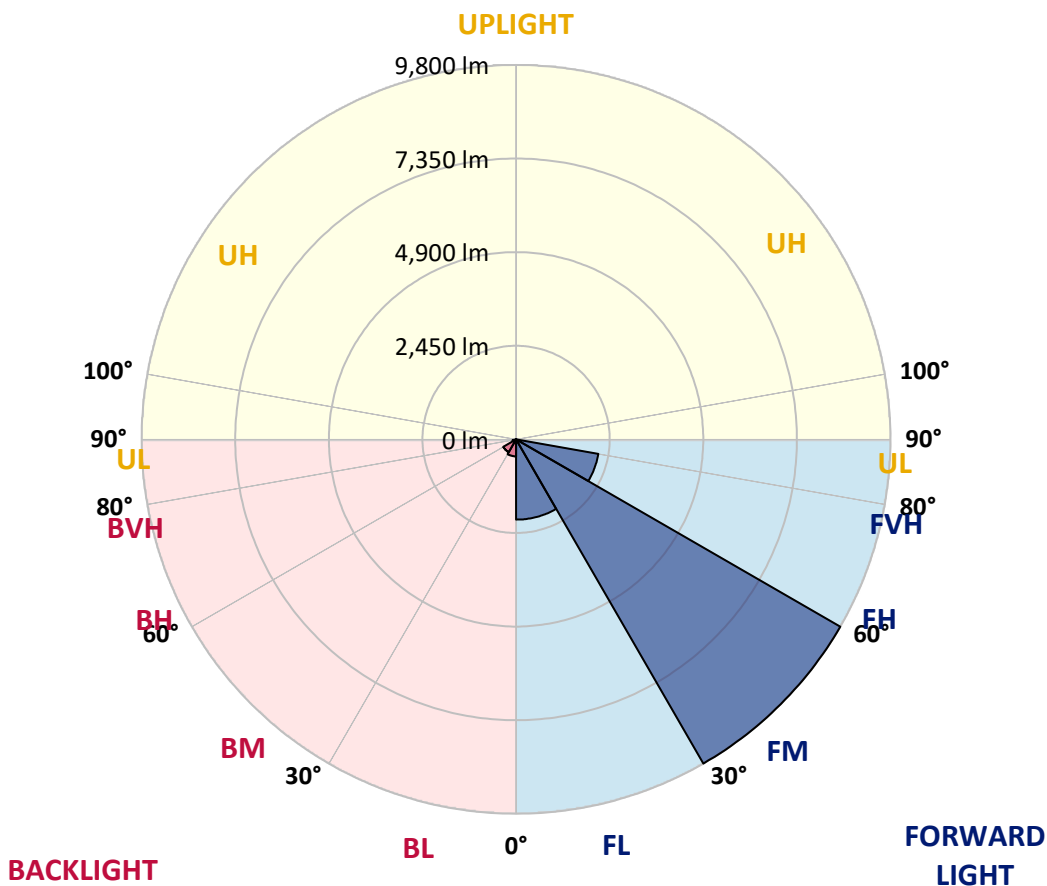
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2101.4	14.0			
FM (30°-60°)	9799.9	65.2			
FH (60°-80°)	2185.3	14.5			G2/5000
FVH (80°-90°)	8.8	0.1			G0/10
BL (0°-30°)	445.5	3.0	B1/500		
BM (30°-60°)	387.6	2.6	B1/1000		
BH (60°-80°)	93.0	0.6	B0/110		G0/110
BVH (80°-90°)	0.9	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9
2.5°	4524.3	4502.5	4535.9	4497.3	4431.8	4376.6	4304.7	4279.0	4163.4	4054.3	3949.0
5°	5073.9	5080.4	5070.1	5016.2	4923.7	4821.0	4675.8	4643.7	4442.1	4234.1	4009.3
7.5°	5210.1	5206.2	5228.1	5248.6	5233.2	5181.8	5023.9	4991.8	4741.3	4429.3	4101.8
10°	4790.1	4792.7	4837.7	4976.3	5148.4	5326.9	5302.5	5284.6	5039.3	4650.2	4204.5
12.5°	4196.8	4219.9	4267.5	4465.2	4756.7	5162.6	5414.3	5432.2	5312.8	4892.9	4325.2
15°	3940.0	3945.1	3983.6	4103.1	4320.1	4821.0	5366.7	5416.8	5541.4	5136.9	4456.2
17.5°	3933.6	3940.0	3956.7	4009.3	4150.6	4552.6	5213.9	5301.3	5713.5	5398.9	4612.9
20°	4175.0	4171.1	4159.6	4131.3	4193.0	4463.9	5072.7	5169.0	5807.2	5654.4	4770.9
22.5°	4612.9	4607.8	4556.4	4439.5	4389.5	4544.8	5003.3	5090.6	5863.7	5881.7	4900.6
25°	5117.6	5153.6	5057.3	4880.0	4756.7	4751.6	5065.0	5126.6	5912.5	6083.3	4989.2
27.5°	5671.1	5682.7	5600.5	5401.4	5222.9	5082.9	5243.5	5289.7	5966.5	6263.1	5039.3
30°	6278.5	6274.7	6180.9	5949.8	5732.8	5531.1	5544.0	5562.0	6092.3	6468.6	5094.5
32.5°	7037.5	7054.2	6887.3	6572.6	6311.9	6033.3	5936.9	5939.5	6319.6	6733.2	5178.0
35°	8068.7	8027.6	7806.8	7358.6	6914.2	6613.7	6449.3	6435.2	6670.2	7088.9	5323.1
37.5°	9051.2	9055.0	8823.9	8330.7	7769.5	7295.6	7063.2	7024.7	7163.4	7582.0	5564.5
40°	9733.1	9745.9	9649.6	9391.5	8796.9	8126.5	7784.9	7745.1	7802.9	8206.2	5880.4
42.5°	10094.0	10129.9	10156.9	10217.2	9766.5	9164.2	8638.9	8635.1	8574.7	8917.6	6246.4
45°	10108.1	10162.0	10326.4	10738.6	10790.0	10348.2	9776.8	9690.7	9458.3	9679.2	6573.9
47.5°	9549.4	9674.0	10023.3	10840.1	11379.5	11525.9	10959.5	10906.9	10254.5	10281.5	6819.2
50°	8247.3	8377.0	9020.4	10320.0	11528.4	12460.8	12257.9	12148.7	10919.7	10679.6	6937.3
52.5°	6911.7	7029.8	7466.4	9082.0	10910.7	12754.9	13352.0	13222.3	11516.9	10818.3	6888.5
55°	4809.4	4967.4	5393.7	6788.4	9487.8	12182.1	13714.2	13687.2	12049.8	10730.9	6812.8
57.5°	2357.8	2514.5	2939.6	4185.3	7028.5	10635.9	13160.7	13303.2	12368.3	10637.2	6751.1
60°	985.0	1049.2	1195.6	1836.4	3932.3	8037.9	11911.1	12108.9	12173.1	10510.0	6744.7
62.5°	571.5	581.8	597.2	761.5	1529.5	4607.8	9880.8	10162.0	11147.0	10341.8	6643.3
65°	431.5	435.4	428.9	467.5	631.8	1747.8	7139.0	7521.7	9304.2	9684.3	6242.6
67.5°	354.4	354.4	337.7	345.5	396.8	655.0	3941.3	4475.5	6884.7	7959.6	5154.9
70°	282.5	288.9	281.2	271.0	283.8	362.1	1402.4	1738.8	4009.3	4700.2	3006.4
72.5°	214.5	214.5	227.3	219.6	210.6	227.3	489.3	549.6	1609.1	1959.7	1085.2
75°	165.7	170.8	179.8	172.1	159.2	134.8	235.0	249.1	485.4	455.9	242.7
77.5°	84.8	86.0	114.3	125.9	118.1	82.2	102.7	113.0	158.0	141.3	89.9
80°	51.4	53.9	64.2	98.9	78.3	43.7	42.4	44.9	74.5	64.2	37.2
82.5°	21.8	23.1	36.0	36.0	32.1	16.7	16.7	16.7	36.0	33.4	15.4
85°	0.0	0.0	6.4	5.1	5.1	6.4	6.4	6.4	9.0	12.8	7.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	3.9	3.9
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°	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9	3880.9
2.5°	3880.9	3798.7	3688.3	3588.1	3453.3	3377.5	3272.2	3186.1	3112.9	3089.8	3079.6
5°	3882.2	3740.9	3504.6	3268.3	2978.1	2749.5	2514.5	2328.3	2175.5	2126.7	2113.8
7.5°	3907.9	3699.8	3317.1	2888.2	2402.8	2002.1	1643.8	1322.7	1173.8	1123.7	1113.4
10°	3942.6	3665.2	3100.1	2432.3	1735.0	1220.0	864.3	658.8	561.2	507.3	515.0
12.5°	3987.5	3636.9	2860.0	1939.2	1148.1	670.4	475.2	398.1	377.6	367.3	362.1
15°	4047.9	3603.5	2562.0	1449.9	703.8	431.5	366.0	345.5	337.7	332.6	331.3
17.5°	4109.5	3565.0	2258.9	1019.7	467.5	358.3	328.8	318.5	313.3	309.5	308.2
20°	4175.0	3499.5	1903.2	702.5	368.6	322.3	303.1	291.5	285.1	278.7	277.4
22.5°	4203.2	3394.2	1562.9	491.9	327.5	296.7	272.3	258.1	250.4	245.3	245.3
25°	4176.3	3223.4	1211.0	373.7	297.9	268.4	244.0	228.6	222.2	217.0	217.0
27.5°	4104.4	3003.8	883.5	309.5	265.8	238.9	215.7	201.6	196.5	193.9	193.9
30°	4024.7	2726.4	622.8	265.8	229.9	208.0	188.8	179.8	178.5	175.9	175.9
32.5°	3956.7	2467.0	428.9	233.7	202.9	181.1	168.2	164.4	165.7	163.1	164.4
35°	3919.4	2212.7	318.5	208.0	181.1	160.5	154.1	154.1	154.1	152.8	152.8
37.5°	3934.8	1962.3	259.4	190.1	161.8	146.4	140.0	142.5	145.1	145.1	145.1
40°	4011.9	1740.1	229.9	173.4	145.1	133.6	128.4	132.3	136.1	138.7	138.7
42.5°	4109.5	1560.3	208.0	159.2	133.6	120.7	118.1	122.0	125.9	128.4	128.4
45°	4171.1	1379.3	186.2	141.3	122.0	106.6	106.6	111.7	110.4	111.7	111.7
47.5°	4199.4	1235.4	164.4	122.0	104.0	92.5	93.7	96.3	93.7	96.3	96.3
50°	4130.0	1090.3	145.1	101.5	86.0	80.9	83.5	82.2	82.2	87.3	87.3
52.5°	4002.9	982.4	128.4	86.0	73.2	71.9	74.5	69.3	70.6	70.6	69.3
55°	3909.2	920.8	114.3	74.5	62.9	64.2	62.9	53.9	48.8	43.7	42.4
57.5°	3862.9	896.4	104.0	66.8	56.5	56.5	51.4	37.2	28.3	21.8	19.3
60°	3852.7	866.8	93.7	57.8	50.1	47.5	37.2	21.8	14.1	10.3	9.0
62.5°	3755.1	794.9	84.8	46.2	43.7	38.5	23.1	12.8	7.7	5.1	3.9
65°	3435.3	653.7	75.8	36.0	33.4	28.3	14.1	7.7	3.9	1.3	0.0
67.5°	2732.8	463.6	66.8	27.0	23.1	18.0	9.0	5.1	1.3	0.0	0.0
70°	1575.7	250.4	55.2	19.3	15.4	11.6	6.4	2.6	0.0	0.0	0.0
72.5°	526.5	116.9	42.4	12.8	11.6	9.0	3.9	1.3	0.0	0.0	0.0
75°	115.6	69.3	28.3	9.0	7.7	6.4	2.6	0.0	0.0	0.0	0.0
77.5°	43.7	48.8	14.1	6.4	5.1	3.9	1.3	0.0	0.0	0.0	0.0
80°	16.7	32.1	6.4	3.9	3.9	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	9.0	12.8	3.9	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.1	6.4	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.3	1.3	1.3	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)