

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: P639839

Luminaire Tested: GWS-SA5C-760-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639839  
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-SA5C-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**

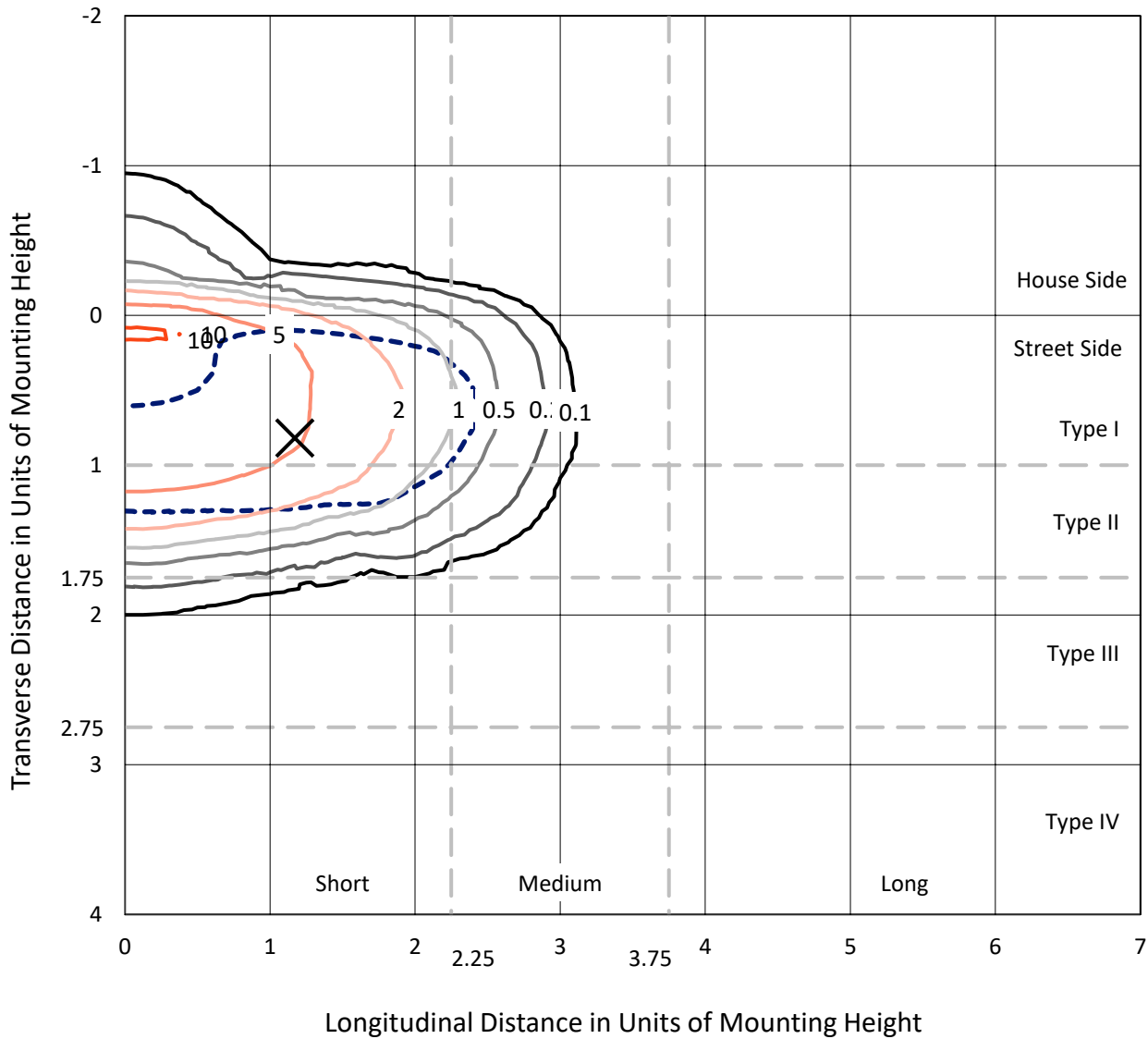
Lumens per Lamp: N/A  
Luminaire Lumens: 20146.7 lumens  
Efficiency: N/A  
Efficacy: 127.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

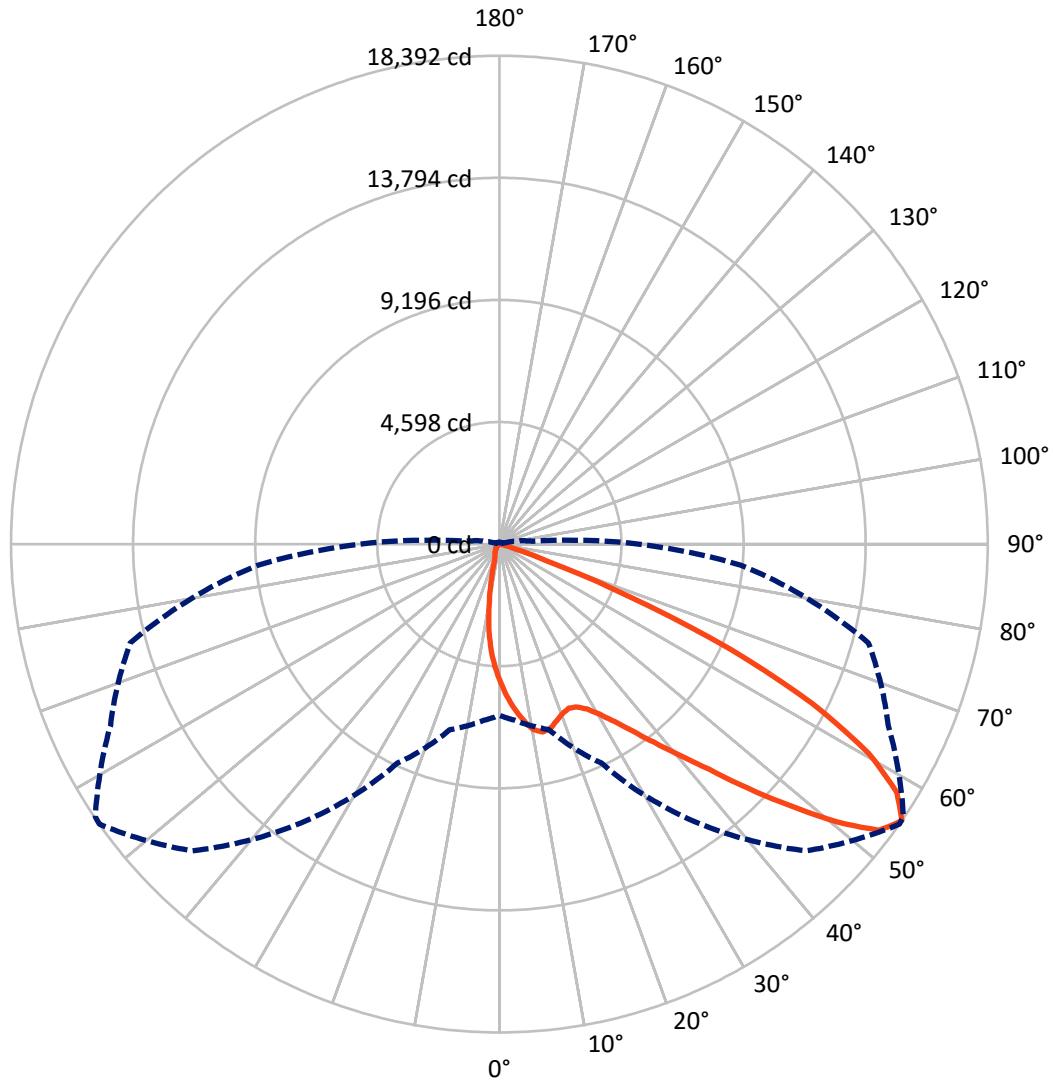
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	1243.1	0.0	1243.1
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	18903.6	0.0	18903.6
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	20146.7	0.0	20146.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	460.0	2.3
10°-20°	1108.9	5.5
20°-30°	1846.8	9.2
30°-40°	3147.1	15.6
40°-50°	5137.1	25.5
50°-60°	5378.3	26.7
60°-70°	2712.7	13.5
70°-80°	342.7	1.7
80°-90°	13.0	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°	20146.7	100.0
0°-180°	20146.7	100.0

**Coefficient of Utilization**



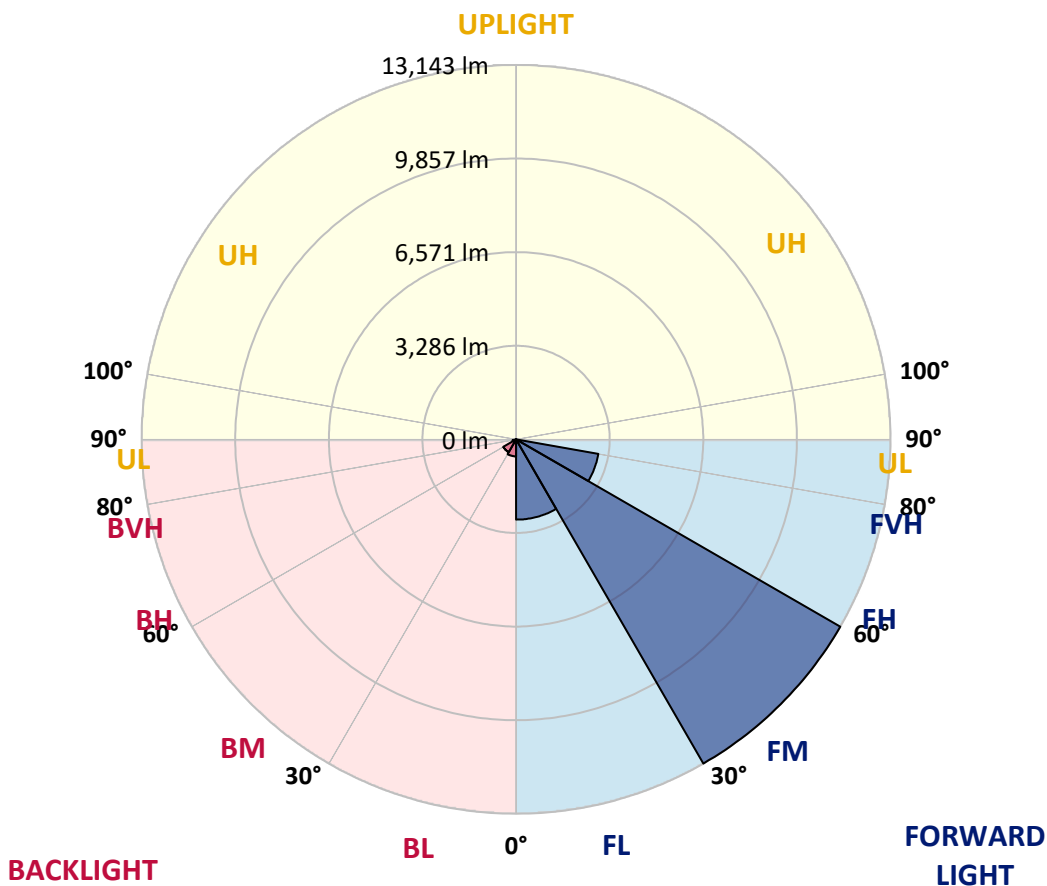
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2818.2	14.0			
FM (30°-60°)	13142.8	65.2			
FH (60°-80°)	2930.7	14.5			G2/5000
FVH (80°-90°)	11.8	0.1			G1/100
BL (0°-30°)	597.5	3.0	B2/1000		
BM (30°-60°)	519.8	2.6	B1/1000		
BH (60°-80°)	124.7	0.6	B1/500		G1/500
BVH (80°-90°)	1.2	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°	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7
2.5°	6067.6	6038.3	6083.1	6031.4	5943.6	5869.5	5773.1	5738.6	5583.6	5437.2	5296.0
5°	6804.7	6813.3	6799.6	6727.2	6603.2	6465.4	6270.8	6227.8	5957.4	5678.4	5377.0
7.5°	6987.3	6982.1	7011.4	7039.0	7018.3	6949.4	6737.6	6694.5	6358.7	5940.1	5501.0
10°	6424.1	6427.5	6487.8	6673.8	6904.6	7144.0	7111.3	7087.2	6758.2	6236.4	5638.7
12.5°	5628.4	5659.4	5723.1	5988.4	6379.3	6923.6	7261.1	7285.2	7125.1	6561.9	5800.6
15°	5284.0	5290.8	5342.5	5502.7	5793.7	6465.4	7197.4	7264.6	7431.6	6889.1	5976.3
17.5°	5275.3	5284.0	5306.3	5377.0	5566.4	6105.5	6992.5	7109.6	7662.4	7240.5	6186.4
20°	5599.1	5594.0	5578.5	5540.6	5623.2	5986.6	6803.0	6932.2	7788.1	7583.2	6398.3
22.5°	6186.4	6179.5	6110.6	5953.9	5886.7	6095.1	6710.0	6827.1	7863.9	7888.0	6572.2
25°	6863.3	6911.5	6782.3	6544.7	6379.3	6372.4	6792.7	6875.3	7929.4	8158.4	6691.1
27.5°	7605.6	7621.1	7510.9	7243.9	7004.5	6816.8	7032.1	7094.1	8001.7	8399.6	6758.2
30°	8420.2	8415.1	8289.3	7979.3	7688.3	7417.9	7435.1	7459.2	8170.5	8675.1	6832.3
32.5°	9438.1	9460.5	9236.6	8814.6	8465.0	8091.3	7962.1	7965.5	8475.3	9029.9	6944.2
35°	10821.1	10766.0	10469.7	9868.7	9272.8	8869.7	8649.3	8630.3	8945.5	9507.0	7138.8
37.5°	12138.6	12143.8	11833.8	11172.4	10419.8	9784.3	9472.5	9420.9	9606.9	10168.3	7462.6
40°	13053.2	13070.4	12941.2	12595.0	11797.6	10898.6	10440.5	10387.1	10464.6	11005.4	7886.3
42.5°	13537.1	13585.3	13621.5	13702.5	13097.9	12290.2	11585.8	11580.6	11499.7	11959.5	8377.2
45°	13556.1	13628.4	13848.8	14401.7	14470.6	13878.1	13111.7	12996.3	12684.6	12980.8	8816.3
47.5°	12806.9	12973.9	13442.4	14537.8	15261.1	15457.5	14697.9	14627.3	13752.4	13788.6	9145.3
50°	11060.5	11234.4	12097.3	13840.2	15460.9	16711.3	16439.2	16292.8	14644.5	14322.5	9303.8
52.5°	9269.3	9427.8	10013.3	12180.0	14632.5	17105.7	17906.5	17732.6	15445.4	14508.5	9238.3
55°	6449.9	6661.8	7233.6	9104.0	12724.2	16337.5	18392.2	18356.1	16160.1	14391.4	9136.7
57.5°	3162.1	3372.2	3942.3	5612.9	9426.0	14263.9	17649.9	17841.1	16587.3	14265.6	9054.0
60°	1321.0	1407.1	1603.4	2462.9	5273.6	10779.7	15974.1	16239.4	16325.5	14095.1	9045.4
62.5°	766.4	780.2	800.9	1021.3	2051.2	6179.5	13251.2	13628.4	14949.4	13869.5	8909.3
65°	578.7	583.9	575.2	626.9	847.4	2344.0	9574.1	10087.4	12477.9	12987.7	8372.0
67.5°	475.3	475.3	453.0	463.3	532.2	878.4	5285.7	6002.1	9233.1	10674.7	6913.2
70°	378.9	387.5	377.2	363.4	380.6	485.7	1880.7	2332.0	5377.0	6303.5	4031.9
72.5°	287.6	287.6	304.8	294.5	282.5	304.8	656.2	737.1	2158.0	2628.2	1455.3
75°	222.2	229.1	241.1	230.8	213.6	180.8	315.2	334.1	651.0	611.4	325.5
77.5°	113.7	115.4	153.3	168.8	158.4	110.2	137.8	151.6	211.8	189.5	120.6
80°	68.9	72.3	86.1	132.6	105.1	58.6	56.8	60.3	99.9	86.1	49.9
82.5°	29.3	31.0	48.2	48.2	43.1	22.4	22.4	22.4	48.2	44.8	20.7
85°	0.0	0.0	8.6	6.9	6.9	8.6	8.6	8.6	12.1	17.2	10.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	5.2	5.2
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°	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7	5204.7
2.5°	5204.7	5094.5	4946.4	4812.0	4631.2	4529.6	4388.4	4273.0	4174.8	4143.8	4130.0
5°	5206.4	5017.0	4700.1	4383.2	3994.0	3687.4	3372.2	3122.5	2917.5	2852.1	2834.9
7.5°	5240.9	4961.9	4448.6	3873.4	3222.4	2685.0	2204.5	1773.9	1574.2	1507.0	1493.2
10°	5287.4	4915.4	4157.6	3262.0	2326.8	1636.2	1159.1	883.5	752.6	680.3	690.6
12.5°	5347.7	4877.5	3835.5	2600.6	1539.7	899.0	637.2	533.9	506.4	492.6	485.7
15°	5428.6	4832.7	3435.9	1944.5	943.8	578.7	490.8	463.3	453.0	446.1	444.3
17.5°	5511.3	4781.0	3029.5	1367.5	626.9	480.5	440.9	427.1	420.2	415.1	413.3
20°	5599.1	4693.2	2552.4	942.1	494.3	432.3	406.5	391.0	382.3	373.7	372.0
22.5°	5637.0	4552.0	2096.0	659.6	439.2	397.8	365.1	346.2	335.8	329.0	329.0
25°	5600.9	4322.9	1624.1	501.2	399.6	360.0	327.2	306.6	298.0	291.1	291.1
27.5°	5504.4	4028.4	1184.9	415.1	356.5	320.3	289.3	270.4	263.5	260.1	260.1
30°	5397.6	3656.4	835.3	356.5	308.3	279.0	253.2	241.1	239.4	236.0	236.0
32.5°	5306.3	3308.5	575.2	313.5	272.1	242.8	225.6	220.5	222.2	218.7	220.5
35°	5256.4	2967.5	427.1	279.0	242.8	215.3	206.7	206.7	206.7	205.0	205.0
37.5°	5277.1	2631.6	347.9	254.9	217.0	196.3	187.7	191.2	194.6	194.6	194.6
40°	5380.4	2333.7	308.3	232.5	194.6	179.1	172.2	177.4	182.6	186.0	186.0
42.5°	5511.3	2092.6	279.0	213.6	179.1	161.9	158.4	163.6	168.8	172.2	172.2
45°	5594.0	1849.7	249.7	189.5	163.6	142.9	142.9	149.8	148.1	149.8	149.8
47.5°	5631.9	1656.8	220.5	163.6	139.5	124.0	125.7	129.2	125.7	129.2	129.2
50°	5538.8	1462.2	194.6	136.1	115.4	108.5	111.9	110.2	110.2	117.1	117.1
52.5°	5368.3	1317.5	172.2	115.4	98.2	96.4	99.9	93.0	94.7	94.7	93.0
55°	5242.6	1234.9	153.3	99.9	84.4	86.1	84.4	72.3	65.4	58.6	56.8
57.5°	5180.6	1202.2	139.5	89.6	75.8	75.8	68.9	49.9	37.9	29.3	25.8
60°	5166.8	1162.5	125.7	77.5	67.2	63.7	49.9	29.3	18.9	13.8	12.1
62.5°	5035.9	1066.1	113.7	62.0	58.6	51.7	31.0	17.2	10.3	6.9	5.2
65°	4607.1	876.6	101.6	48.2	44.8	37.9	18.9	10.3	5.2	1.7	0.0
67.5°	3665.0	621.7	89.6	36.2	31.0	24.1	12.1	6.9	1.7	0.0	0.0
70°	2113.2	335.8	74.1	25.8	20.7	15.5	8.6	3.4	0.0	0.0	0.0
72.5°	706.1	156.7	56.8	17.2	15.5	12.1	5.2	1.7	0.0	0.0	0.0
75°	155.0	93.0	37.9	12.1	10.3	8.6	3.4	0.0	0.0	0.0	0.0
77.5°	58.6	65.4	18.9	8.6	6.9	5.2	1.7	0.0	0.0	0.0	0.0
80°	22.4	43.1	8.6	5.2	5.2	1.7	0.0	0.0	0.0	0.0	0.0
82.5°	12.1	17.2	5.2	3.4	3.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.9	8.6	3.4	1.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.4	1.7	1.7	1.7	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)