

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: P639287

Luminaire Tested: GWS-SA5B-750-U-AFL-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639287  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-46)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-750-U-AFL-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

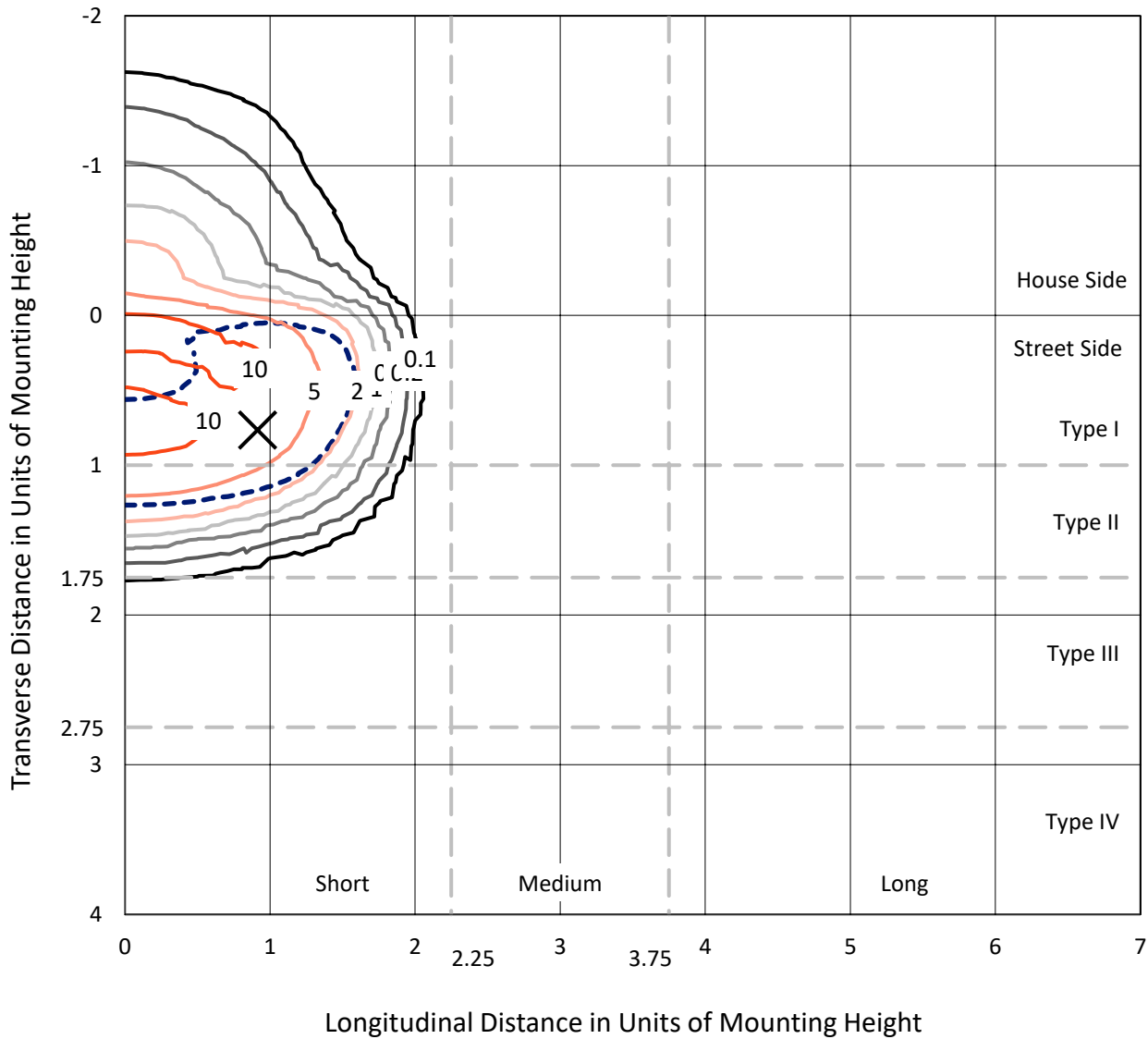
Lumens per Lamp: N/A  
Luminaire Lumens: 13679.1 lumens  
Efficiency: N/A  
Efficacy: 118.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G0  
  
Input Watts (W): 115.7  
Input Voltage (V): 120  
Input Current (Ain): 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

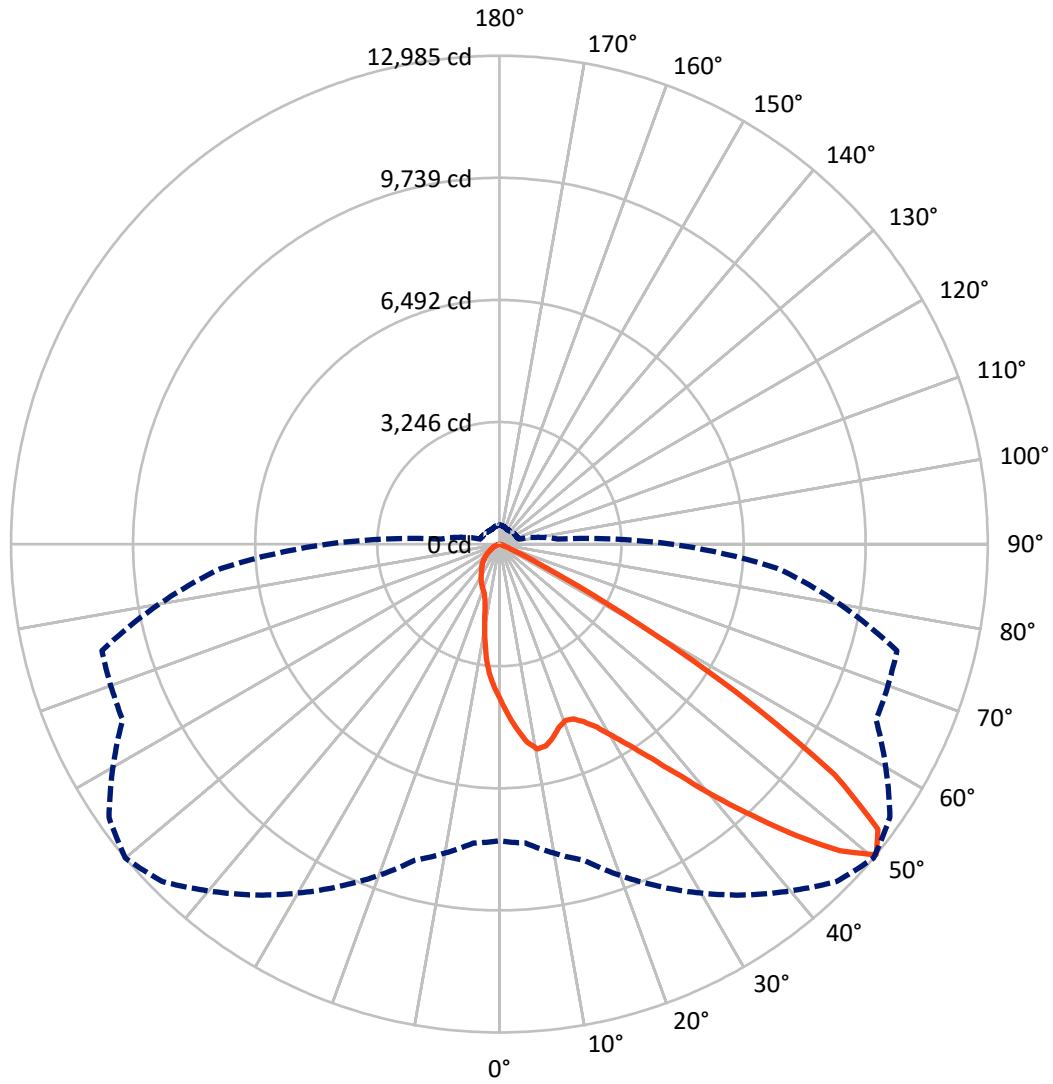
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 13.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1757.6	0.0	1757.6
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	11921.5	0.0	11921.5
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	13679.1	0.0	13679.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	384.4	2.8
10°-20°	991.9	7.3
20°-30°	1637.0	12.0
30°-40°	2701.3	19.7
40°-50°	4274.1	31.2
50°-60°	3236.0	23.7
60°-70°	405.0	3.0
70°-80°	45.8	0.3
80°-90°	3.5	0.0
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°	13679.1	100.0
0°-180°	13679.1	100.0

**Coefficient of Utilization**

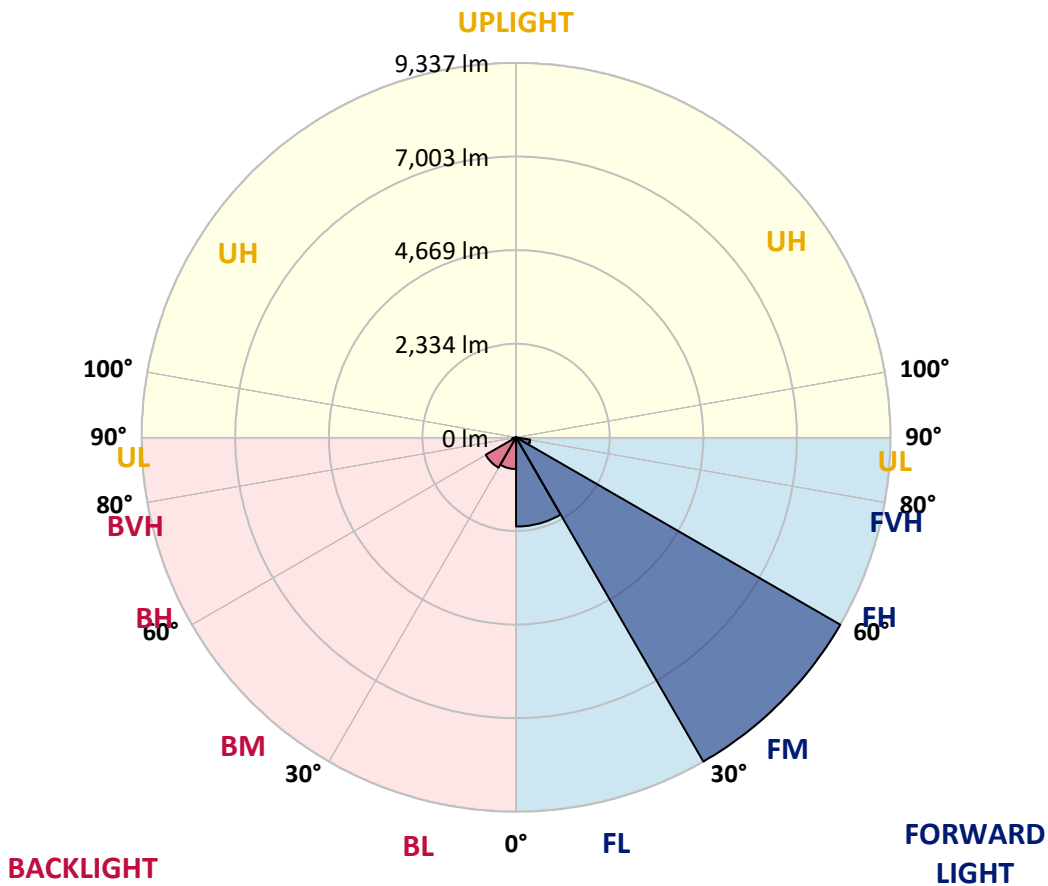


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2224.4	16.3			
FM (30°-60°)	9337.4	68.3			
FH (60°-80°)	358.1	2.6			G0/660
FVH (80°-90°)	1.6	0.0			G0/10
BL (0°-30°)	788.9	5.8	B2/1000		
BM (30°-60°)	874.1	6.4	B1/1000		
BH (60°-80°)	92.7	0.7	B0/110		G0/110
BVH (80°-90°)	1.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G0**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	50°	55°	65°	75°	85°
0°	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2
2.5°	4722.3	4760.1	4749.6	4700.2	4646.8	4609.0	4550.4	4532.2	4399.4	4307.0	4209.3
5°	5292.6	5304.3	5291.3	5231.4	5137.6	5047.8	4951.5	4895.5	4672.8	4472.3	4267.9
7.5°	5429.3	5415.0	5439.7	5469.6	5456.6	5417.6	5316.0	5254.8	4989.2	4662.4	4352.5
10°	5002.2	4969.7	5062.1	5217.1	5379.8	5563.4	5537.3	5542.6	5297.8	4902.0	4463.2
12.5°	4435.9	4422.8	4491.9	4671.5	4990.5	5407.2	5507.4	5675.4	5580.3	5161.1	4589.5
15°	4187.2	4193.7	4235.4	4348.6	4577.8	5096.0	5336.8	5640.2	5832.9	5412.4	4728.8
17.5°	4224.9	4248.4	4247.1	4284.8	4424.2	4839.5	5120.7	5529.5	6028.2	5701.4	4889.0
20°	4481.4	4504.9	4469.7	4441.1	4487.9	4774.4	5007.4	5417.6	6159.7	5993.0	5058.2
22.5°	4865.5	4892.9	4809.5	4727.5	4697.6	4881.1	5050.4	5372.0	6260.0	6260.0	5209.2
25°	5330.3	5368.1	5239.2	5093.4	5010.0	5106.4	5234.0	5474.9	6362.8	6499.5	5312.1
27.5°	5849.8	5851.1	5740.5	5576.4	5420.2	5431.9	5508.7	5706.6	6476.1	6757.3	5392.8
30°	6434.4	6438.3	6291.2	6094.6	5898.0	5844.6	5909.7	6059.4	6711.7	7081.5	5504.8
32.5°	7189.6	7207.8	6996.9	6707.8	6452.6	6352.4	6390.2	6547.7	7086.7	7487.7	5672.8
35°	8210.3	8229.9	7918.7	7537.2	7131.0	6980.0	7017.7	7176.6	7629.6	8064.5	5941.0
37.5°	9218.1	9244.1	8929.0	8573.6	8016.3	7766.4	7805.4	7956.4	8444.7	8861.3	6370.6
40°	9914.6	9949.8	9852.1	9612.6	9095.7	8767.6	8814.4	8869.1	9341.8	9814.4	6927.9
42.5°	10281.8	10331.3	10372.9	10495.3	10223.2	9948.5	9869.1	9873.0	10254.4	10785.7	7507.3
45°	10303.9	10352.1	10565.6	11038.2	11245.3	11188.0	11043.5	10945.8	10951.0	11432.7	7869.2
47.5°	9587.8	9677.7	10077.4	11003.1	11781.7	12256.9	12184.0	11952.2	11244.0	11475.7	7830.1
50°	7891.3	7979.9	8706.4	10038.3	11391.1	12684.0	12984.7	12673.5	11052.6	10940.6	7427.8
52.5°	5731.3	5740.5	6211.8	7767.7	9807.9	11896.3	12604.5	12574.6	10760.9	10292.2	6878.4
55°	2722.5	2689.9	3219.8	4383.8	6783.4	9621.7	10815.6	11154.1	10346.9	9823.5	6452.6
57.5°	792.9	808.5	1044.2	1710.8	3393.0	6149.3	7407.0	8037.2	8492.9	8076.2	5004.8
60°	355.4	356.7	397.1	520.8	1130.1	2860.5	3829.1	4609.0	5077.7	4705.4	2482.9
62.5°	257.8	259.1	274.7	294.2	384.1	968.7	1436.1	1913.9	1949.1	1275.9	628.9
65°	214.8	214.8	217.4	217.4	230.5	346.3	436.2	562.5	473.9	351.5	246.1
67.5°	173.2	174.5	177.1	177.1	173.2	173.2	187.5	205.7	220.0	272.1	226.5
70°	135.4	134.1	134.1	135.4	131.5	112.0	121.1	138.0	151.0	212.2	196.6
72.5°	105.5	106.8	105.5	100.3	91.1	66.4	71.6	89.8	96.3	132.8	132.8
75°	79.4	80.7	75.5	57.3	37.8	20.8	27.3	44.3	56.0	65.1	48.2
77.5°	10.4	10.4	7.8	7.8	6.5	7.8	7.8	10.4	15.6	15.6	11.7
80°	1.3	1.3	1.3	2.6	3.9	5.2	5.2	5.2	5.2	6.5	6.5
82.5°	1.3	1.3	1.3	1.3	3.9	3.9	5.2	5.2	5.2	5.2	5.2
85°	0.0	0.0	0.0	1.3	2.6	3.9	3.9	5.2	5.2	5.2	5.2
87.5°	0.0	0.0	0.0	1.3	2.6	3.9	3.9	3.9	5.2	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°	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2	4144.2
2.5°	4150.7	4075.2	3984.1	3921.6	3833.0	3774.5	3691.1	3635.1	3587.0	3549.2	3570.0
5°	4152.0	4032.3	3846.1	3687.2	3514.1	3355.2	3184.7	3050.6	2929.5	2874.8	2904.7
7.5°	4178.1	4006.2	3721.1	3438.5	3106.5	2778.4	2471.2	2221.2	2097.5	2038.9	2057.1
10°	4228.9	3994.5	3581.8	3113.1	2574.0	2126.1	1828.0	1658.7	1589.7	1553.3	1559.8
12.5°	4275.7	3986.7	3400.8	2684.7	2031.1	1649.6	1494.7	1471.2	1485.6	1486.9	1485.6
15°	4339.5	3972.4	3176.8	2244.6	1624.9	1425.7	1429.6	1463.4	1497.3	1507.7	1505.1
17.5°	4407.2	3950.2	2887.8	1822.8	1378.8	1360.6	1406.1	1451.7	1485.6	1490.8	1492.1
20°	4477.5	3904.7	2558.4	1488.2	1264.2	1311.1	1361.9	1395.7	1420.5	1428.3	1430.9
22.5°	4510.1	3808.3	2178.2	1248.6	1187.4	1249.9	1287.7	1331.9	1339.7	1311.1	1316.3
25°	4493.2	3645.6	1807.2	1087.2	1110.6	1173.1	1229.1	1206.9	1174.4	1153.6	1160.1
27.5°	4439.8	3429.4	1443.9	968.7	1028.6	1108.0	1114.5	1089.8	1084.6	1067.6	1072.8
30°	4382.5	3180.8	1161.4	873.6	945.2	1028.6	1009.0	1018.2	1019.5	999.9	1006.4
32.5°	4347.3	2920.4	924.4	809.8	891.9	907.5	946.5	964.8	966.1	920.5	928.3
35°	4359.1	2663.9	782.5	757.8	842.4	838.5	893.2	903.6	828.1	765.6	772.1
37.5°	4454.1	2426.9	701.8	717.4	756.5	786.4	828.1	759.1	742.1	713.5	717.4
40°	4631.2	2225.1	653.6	692.7	697.9	746.0	682.2	691.4	692.7	674.4	678.3
42.5°	4838.2	2057.1	625.0	678.3	665.3	673.1	609.3	627.6	647.1	639.3	640.6
45°	4942.3	1893.1	600.2	628.9	632.8	558.6	544.2	563.8	588.5	592.4	593.7
47.5°	4849.9	1736.9	574.2	557.3	583.3	509.1	492.2	498.7	527.3	542.9	545.5
50°	4567.4	1557.2	535.1	493.5	479.1	457.0	441.4	442.7	475.2	502.6	507.8
52.5°	4170.3	1369.7	471.3	417.9	385.4	402.3	406.2	398.4	428.4	455.7	460.9
55°	3784.9	1135.3	373.7	339.8	309.9	346.3	356.7	346.3	355.4	373.7	375.0
57.5°	2665.2	641.9	286.4	281.2	256.5	296.9	313.8	298.2	282.5	294.2	296.9
60°	1235.6	335.9	220.0	220.0	213.5	255.2	283.8	261.7	231.8	237.0	240.9
62.5°	386.7	212.2	161.4	152.3	174.5	217.4	240.9	218.7	183.6	183.6	188.8
65°	218.7	182.3	127.6	117.2	141.9	174.5	188.8	165.4	134.1	131.5	131.5
67.5°	203.1	173.2	113.3	95.0	100.3	112.0	117.2	101.6	92.4	91.1	92.4
70°	168.0	144.5	91.1	65.1	61.2	59.9	62.5	58.6	56.0	57.3	61.2
72.5°	104.2	87.2	57.3	39.1	33.9	32.5	32.5	32.5	31.2	31.2	31.2
75°	37.8	32.5	26.0	19.5	16.9	15.6	15.6	16.9	15.6	14.3	13.0
77.5°	11.7	10.4	10.4	10.4	9.1	7.8	6.5	6.5	5.2	3.9	3.9
80°	6.5	6.5	6.5	6.5	5.2	5.2	3.9	2.6	1.3	1.3	0.0
82.5°	6.5	6.5	6.5	5.2	5.2	5.2	3.9	2.6	1.3	0.0	0.0
85°	5.2	5.2	5.2	5.2	5.2	5.2	3.9	2.6	1.3	0.0	0.0
87.5°	5.2	5.2	5.2	5.2	5.2	5.2	3.9	2.6	1.3	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)