

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: P642699

Luminaire Tested: GWS-SA6D-740-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642699  
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-SA6D-740-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

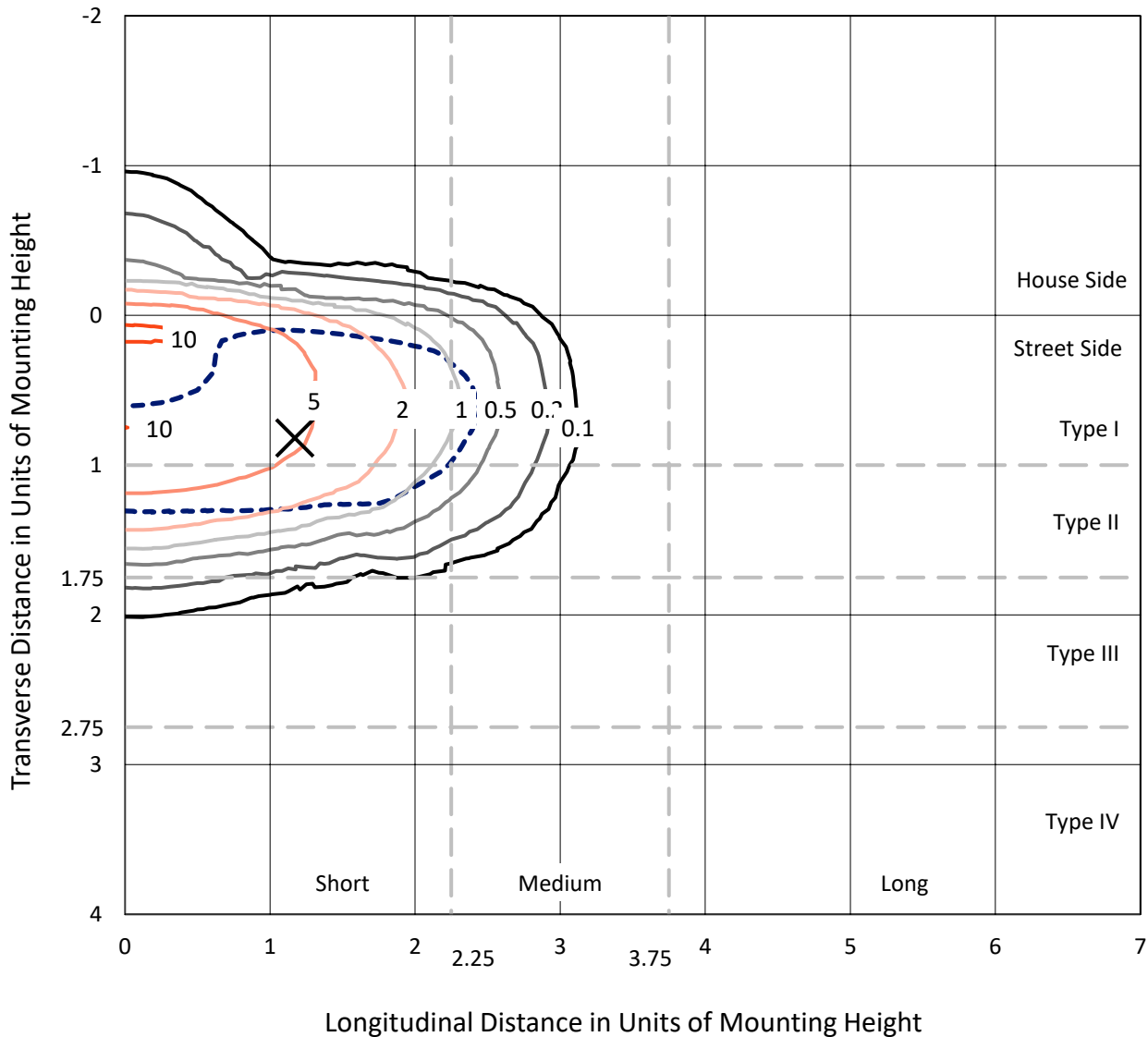
Lumens per Lamp: N/A  
Luminaire Lumens: 30039.9 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

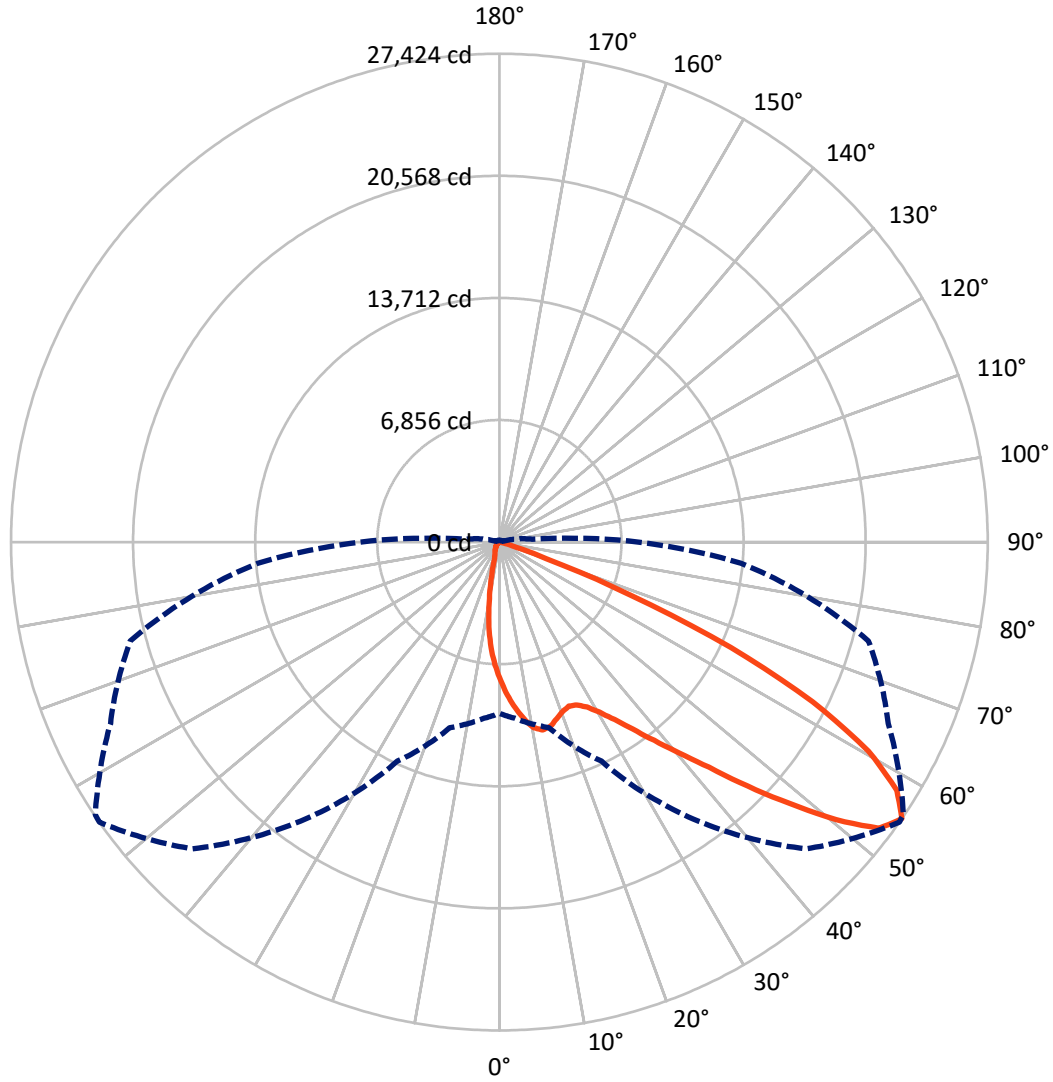
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11.3 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	1853.6	0.0	1853.6
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	28186.3	0.0	28186.3
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	30039.9	0.0	30039.9
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	685.8	2.3
10°-20°	1653.5	5.5
20°-30°	2753.7	9.2
30°-40°	4692.5	15.6
40°-50°	7659.8	25.5
50°-60°	8019.4	26.7
60°-70°	4044.8	13.5
70°-80°	510.9	1.7
80°-90°	19.4	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°	30039.9	100.0
0°-180°	30039.9	100.0

**Coefficient of Utilization**



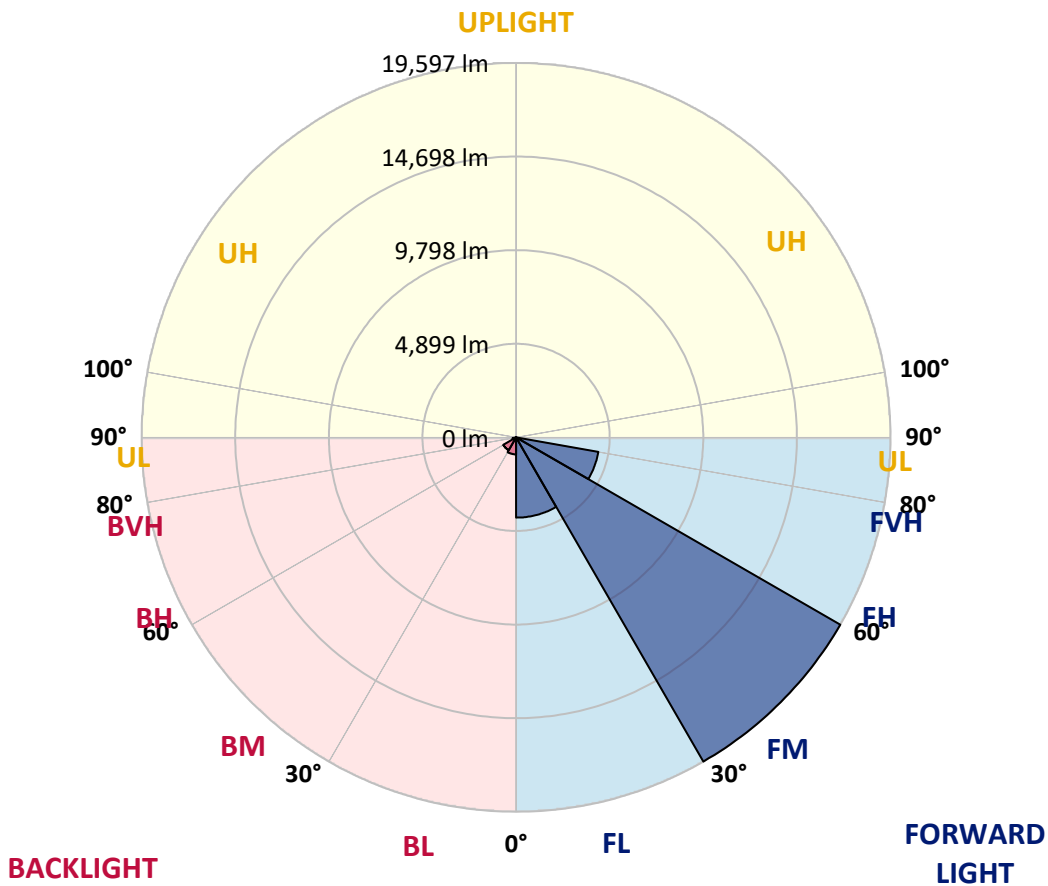
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4202.2	14.0			
FM (30°-60°)	19596.7	65.2			
FH (60°-80°)	4369.8	14.5			G2/5000
FVH (80°-90°)	17.6	0.1			G1/100
BL (0°-30°)	890.9	3.0	B2/1000		
BM (30°-60°)	775.0	2.6	B1/1000		
BH (60°-80°)	185.9	0.6	B1/500		G1/500
BVH (80°-90°)	1.8	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°	7760.6	7760.6	7760.6	7760.6	7760.6	7760.6	7760.6	7760.6	7760.6	7760.6	7760.6
2.5°	9047.1	9003.5	9070.2	8993.2	8862.2	8751.8	8608.0	8556.6	8325.5	8107.2	7896.7
5°	10146.2	10159.1	10138.5	10030.7	9845.8	9640.3	9350.2	9286.0	8882.8	8466.8	8017.4
7.5°	10418.4	10410.7	10454.4	10495.5	10464.7	10362.0	10046.1	9981.9	9481.1	8857.1	8202.2
10°	9578.7	9583.8	9673.7	9951.1	10295.2	10652.1	10603.3	10567.4	10076.9	9298.8	8407.7
12.5°	8392.3	8438.5	8533.5	8929.0	9511.9	10323.4	10826.8	10862.7	10623.9	9784.1	8649.1
15°	7878.7	7889.0	7966.0	8204.8	8638.8	9640.3	10731.7	10831.9	11081.0	10272.1	8911.0
17.5°	7865.8	7878.7	7912.1	8017.4	8299.8	9103.6	10426.2	10600.8	11425.1	10795.9	9224.3
20°	8348.6	8340.9	8317.8	8261.3	8384.6	8926.4	10143.7	10336.3	11612.6	11307.0	9540.2
22.5°	9224.3	9214.0	9111.3	8877.6	8777.5	9088.2	10005.0	10179.6	11725.6	11761.5	9799.6
25°	10233.6	10305.5	10112.9	9758.5	9511.9	9501.7	10128.3	10251.5	11823.2	12164.7	9976.8
27.5°	11340.4	11363.5	11199.1	10801.1	10444.1	10164.2	10485.2	10577.7	11931.0	12524.2	10076.9
30°	12555.0	12547.3	12359.9	11897.6	11463.6	11060.5	11086.1	11122.1	12182.7	12935.1	10187.3
32.5°	14072.7	14106.1	13772.3	13143.1	12621.8	12064.5	11871.9	11877.1	12637.2	13464.1	10354.2
35°	16134.9	16052.7	15611.0	14714.7	13826.2	13225.3	12896.6	12868.3	13338.3	14175.5	10644.4
37.5°	18099.4	18107.1	17644.9	16658.7	15536.5	14588.9	14124.1	14047.1	14324.4	15161.6	11127.2
40°	19463.0	19488.7	19296.1	18779.9	17590.9	16250.4	15567.3	15487.7	15603.3	16409.6	11759.0
42.5°	20184.6	20256.5	20310.5	20431.2	19529.8	18325.4	17275.1	17267.4	17146.7	17832.3	12490.8
45°	20212.9	20320.7	20649.4	21473.8	21576.5	20693.1	19550.3	19378.3	18913.5	19355.2	13145.7
47.5°	19095.8	19344.9	20043.4	21676.6	22755.2	23048.0	21915.5	21810.2	20505.6	20559.6	13636.2
50°	16491.8	16751.2	18037.8	20636.6	23053.1	24917.5	24511.7	24293.5	21835.9	21355.6	13872.4
52.5°	13821.1	14057.3	14930.5	18161.0	21817.9	25505.6	26699.7	26440.3	23030.0	21633.0	13774.8
55°	9617.2	9933.1	10785.7	13574.5	18972.5	24360.2	27423.9	27369.9	24095.7	21458.4	13623.3
57.5°	4714.9	5028.2	5878.2	8369.2	14054.8	21268.3	26317.0	26602.1	24732.6	21270.9	13500.1
60°	1969.7	2098.1	2390.8	3672.3	7863.3	16073.2	23818.4	24213.8	24342.2	21016.7	13487.2
62.5°	1142.8	1163.3	1194.1	1522.8	3058.5	9214.0	19758.3	20320.7	22290.4	20680.2	13284.4
65°	862.9	870.6	857.7	934.8	1263.5	3495.1	14275.6	15040.9	18605.3	19365.4	12483.1
67.5°	708.8	708.8	675.4	690.8	793.5	1309.7	7881.2	8949.5	13767.1	15916.6	10308.0
70°	565.0	577.8	562.4	541.9	567.5	724.2	2804.3	3477.1	8017.4	9398.9	6011.7
72.5°	428.9	428.9	454.5	439.1	421.2	454.5	978.4	1099.1	3217.7	3918.8	2170.0
75°	331.3	341.5	359.5	344.1	318.4	269.6	469.9	498.2	970.7	911.6	485.4
77.5°	169.5	172.1	228.6	251.7	236.3	164.4	205.4	226.0	315.9	282.5	179.8
80°	102.7	107.9	128.4	197.7	156.6	87.3	84.7	89.9	148.9	128.4	74.5
82.5°	43.7	46.2	71.9	71.9	64.2	33.4	33.4	33.4	71.9	66.8	30.8
85°	0.0	0.0	12.8	10.3	10.3	12.8	12.8	12.8	18.0	25.7	15.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	7.7	7.7
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°	7760.6	7760.6	7760.6	7760.6	7760.6	7760.6	7760.6	7760.6	7760.6	7760.6	7760.6
2.5°	7760.6	7596.2	7375.3	7175.0	6905.4	6753.9	6543.3	6371.3	6224.9	6178.7	6158.1
5°	7763.1	7480.6	7008.1	6535.6	5955.2	5498.1	5028.2	4655.8	4350.2	4252.6	4227.0
7.5°	7814.5	7398.5	6633.2	5775.5	4804.8	4003.5	3287.1	2645.1	2347.2	2247.0	2226.5
10°	7883.8	7329.1	6199.2	4863.8	3469.4	2439.6	1728.3	1317.4	1122.2	1014.4	1029.8
12.5°	7973.7	7272.6	5719.0	3877.7	2295.8	1340.5	950.2	796.1	755.0	734.5	724.2
15°	8094.4	7205.9	5123.2	2899.3	1407.3	862.9	731.9	690.8	675.4	665.1	662.5
17.5°	8217.7	7128.8	4517.1	2039.0	934.8	716.5	657.4	636.9	626.6	618.9	616.3
20°	8348.6	6997.8	3805.8	1404.7	737.0	644.6	606.1	582.9	570.1	557.3	554.7
22.5°	8405.1	6787.3	3125.3	983.6	654.8	593.2	544.4	516.2	500.8	490.5	490.5
25°	8351.2	6445.7	2421.6	747.3	595.8	536.7	487.9	457.1	444.3	434.0	434.0
27.5°	8207.4	6006.6	1766.8	618.9	531.6	477.7	431.4	403.2	392.9	387.8	387.8
30°	8048.2	5451.9	1245.5	531.6	459.7	416.0	377.5	359.5	357.0	351.8	351.8
32.5°	7912.1	4933.2	857.7	467.4	405.7	362.1	336.4	328.7	331.3	326.1	328.7
35°	7837.6	4424.7	636.9	416.0	362.1	321.0	308.2	308.2	308.2	305.6	305.6
37.5°	7868.4	3923.9	518.7	380.1	323.6	292.8	279.9	285.1	290.2	290.2	290.2
40°	8022.5	3479.7	459.7	346.7	290.2	267.1	256.8	264.5	272.2	277.3	277.3
42.5°	8217.7	3120.1	416.0	318.4	267.1	241.4	236.3	244.0	251.7	256.8	256.8
45°	8340.9	2758.1	372.4	282.5	244.0	213.1	213.1	223.4	220.8	223.4	223.4
47.5°	8397.4	2470.4	328.7	244.0	208.0	184.9	187.5	192.6	187.5	192.6	192.6
50°	8258.7	2180.2	290.2	202.9	172.1	161.8	166.9	164.4	164.4	174.6	174.6
52.5°	8004.5	1964.5	256.8	172.1	146.4	143.8	148.9	138.7	141.2	141.2	138.7
55°	7817.0	1841.3	228.6	148.9	125.8	128.4	125.8	107.9	97.6	87.3	84.7
57.5°	7724.6	1792.5	208.0	133.5	113.0	113.0	102.7	74.5	56.5	43.7	38.5
60°	7704.1	1733.4	187.5	115.6	100.2	95.0	74.5	43.7	28.2	20.5	18.0
62.5°	7508.9	1589.6	169.5	92.4	87.3	77.0	46.2	25.7	15.4	10.3	7.7
65°	6869.4	1307.1	151.5	71.9	66.8	56.5	28.2	15.4	7.7	2.6	0.0
67.5°	5464.7	927.1	133.5	53.9	46.2	36.0	18.0	10.3	2.6	0.0	0.0
70°	3151.0	500.8	110.4	38.5	30.8	23.1	12.8	5.1	0.0	0.0	0.0
72.5°	1052.9	233.7	84.7	25.7	23.1	18.0	7.7	2.6	0.0	0.0	0.0
75°	231.1	138.7	56.5	18.0	15.4	12.8	5.1	0.0	0.0	0.0	0.0
77.5°	87.3	97.6	28.2	12.8	10.3	7.7	2.6	0.0	0.0	0.0	0.0
80°	33.4	64.2	12.8	7.7	7.7	2.6	0.0	0.0	0.0	0.0	0.0
82.5°	18.0	25.7	7.7	5.1	5.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.3	12.8	5.1	2.6	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.1	2.6	2.6	2.6	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)