

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: P640969

Luminaire Tested: GWS-SA5E-830-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640969  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-14)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-830-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: -

**Summary**

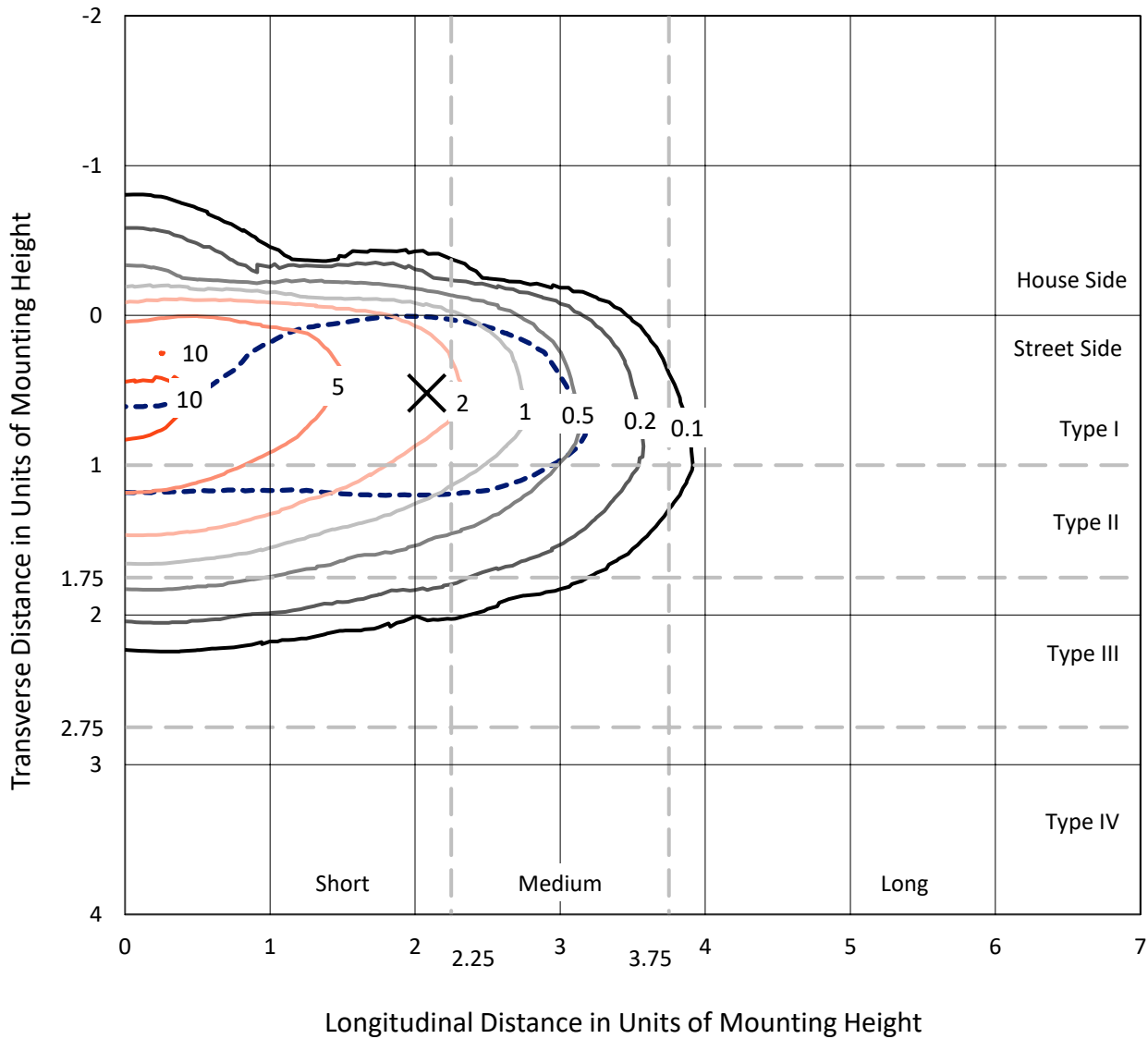
Lumens per Lamp: N/A  
Luminaire Lumens: 24050.7 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

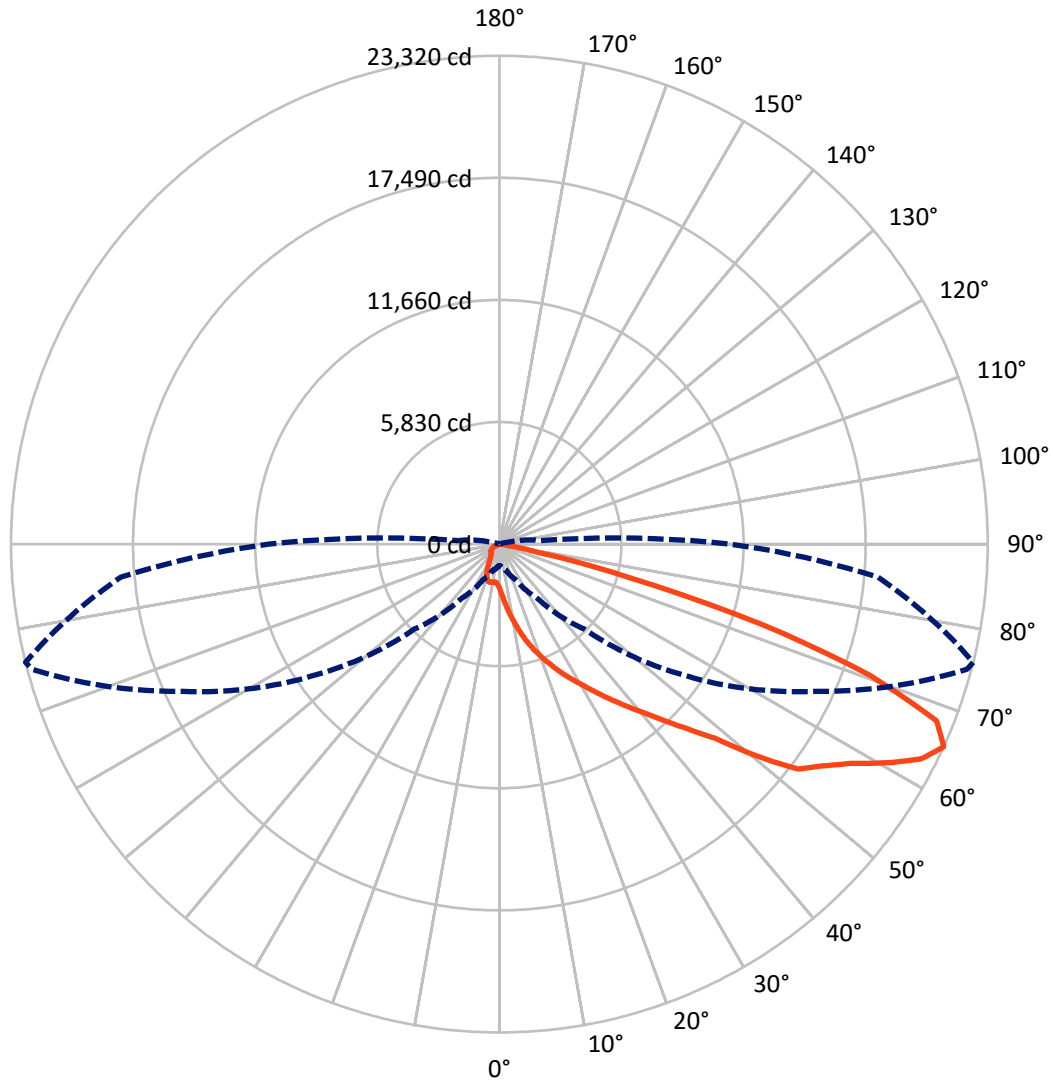
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1329.9	0.0	1329.9
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	22720.8	0.0	22720.8
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	24050.7	0.0	24050.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	259.0	1.1
10°-20°	983.0	4.1
20°-30°	2005.4	8.3
30°-40°	3566.6	14.8
40°-50°	5272.3	21.9
50°-60°	6036.4	25.1
60°-70°	4605.5	19.1
70°-80°	1290.1	5.4
80°-90°	32.5	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°	24050.7	100.0
0°-180°	24050.7	100.0

**Coefficient of Utilization**



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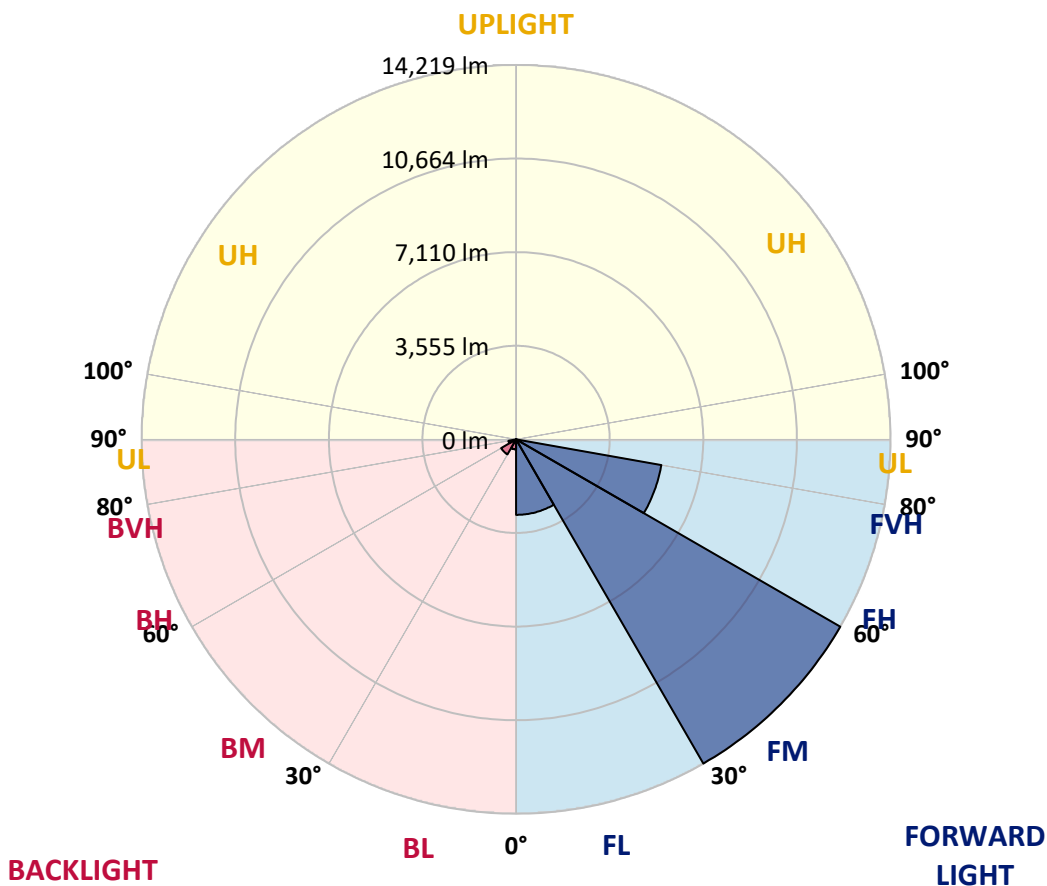
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2867.9	11.9			
FM (30°-60°)	14219.2	59.1			
FH (60°-80°)	5603.2	23.3			G3/7500
FVH (80°-90°)	30.6	0.1			G1/100
BL (0°-30°)	379.5	1.6	B1/500		
BM (30°-60°)	656.1	2.7	B1/1000		
BH (60°-80°)	292.3	1.2	B1/500		G1/500
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: B1-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4
2.5°	3281.7	3330.9	3292.4	3228.3	3104.3	2984.5	2830.6	2618.9	2450.1	2428.7	2270.5
5°	4431.9	4427.6	4344.2	4260.9	4130.5	3925.2	3615.2	3221.8	2843.4	2811.4	2456.5
7.5°	5116.0	5122.4	5075.4	5011.3	4883.0	4671.3	4348.5	3873.9	3320.2	3256.0	2710.9
10°	5691.1	5689.0	5654.8	5624.9	5509.4	5368.3	5022.0	4500.3	3833.3	3732.8	2995.2
12.5°	6123.0	6138.0	6155.1	6185.0	6135.8	5996.9	5669.8	5101.1	4352.8	4241.6	3320.2
15°	6465.1	6469.3	6533.5	6648.9	6689.5	6616.8	6319.7	5682.6	4865.9	4769.7	3694.3
17.5°	6567.7	6576.2	6685.3	6896.9	7110.7	7151.3	6926.8	6268.4	5370.4	5267.8	4057.8
20°	6783.6	6802.8	6884.1	7070.1	7339.5	7557.5	7469.9	6860.6	5875.0	5740.3	4429.8
22.5°	7463.5	7474.2	7446.4	7469.9	7608.8	7861.1	7914.6	7433.5	6392.4	6249.1	4831.7
25°	8632.9	8637.2	8442.6	8258.8	8154.0	8201.0	8318.6	7961.6	6905.5	6764.4	5205.8
27.5°	9847.2	9862.2	9629.2	9317.0	8942.9	8729.1	8694.9	8444.8	7422.8	7266.8	5575.7
30°	10991.0	10991.0	10745.2	10364.6	9864.3	9447.5	9201.6	8932.2	7976.6	7805.5	5954.1
32.5°	12019.4	12010.8	11696.5	11283.9	10790.1	10332.5	9815.2	9441.0	8592.3	8402.0	6390.2
35°	12868.1	12846.7	12489.7	12094.2	11566.1	11226.2	10649.0	9988.3	9259.3	9069.0	6839.2
37.5°	13509.5	13486.0	13158.9	12739.8	12250.3	12030.1	11546.9	10644.7	9962.7	9789.5	7337.3
40°	13858.0	13810.9	13584.3	13272.2	12861.7	12669.3	12468.3	11459.2	10790.1	10574.1	7925.3
42.5°	13960.6	13905.0	13755.4	13610.0	13362.0	13210.2	13426.1	12378.5	11698.7	11512.7	8596.6
45°	13657.0	13624.9	13612.1	13716.9	13761.8	13804.5	14336.9	13396.2	12701.4	12560.3	9441.0
47.5°	12925.8	12917.3	13030.6	13466.7	13941.3	14392.4	15326.7	14651.1	14001.2	13849.4	10621.2
50°	11574.7	11662.3	11978.7	12744.1	13693.4	14726.0	16252.4	16391.4	16104.9	15882.6	12160.5
52.5°	9462.4	9631.3	10341.1	11504.1	12868.1	14631.9	16680.0	17785.3	18078.2	17847.3	13263.6
55°	7425.0	7583.2	8216.0	9691.2	11510.5	13915.7	16699.3	18266.4	18905.6	18691.8	14009.8
57.5°	5530.8	5676.2	6251.3	7662.3	9663.4	12506.8	16241.7	18533.6	19886.9	19750.1	15187.8
60°	3615.2	3758.5	4278.0	5511.5	7495.5	10454.4	15115.1	18478.0	21223.1	21210.3	16635.1
62.5°	2005.4	2118.7	2494.9	3457.0	5231.5	8096.3	13344.9	17920.0	22516.5	22597.8	17828.1
65°	1026.2	1098.9	1327.6	1900.6	3166.3	5740.3	11016.7	16641.5	23115.1	23320.4	18142.4
67.5°	671.3	694.8	750.4	987.7	1695.4	3610.9	8290.8	14591.3	22272.8	22512.3	17088.4
70°	545.2	564.4	596.5	658.5	874.4	1917.7	5445.3	11653.8	18610.6	18773.0	13607.8
72.5°	399.8	425.4	487.4	528.1	630.7	1051.9	2832.7	7649.5	12780.5	13066.9	8551.7
75°	295.0	310.0	361.3	416.9	515.2	664.9	1083.9	4021.4	6599.7	6433.0	3591.7
77.5°	177.4	188.1	230.9	267.2	367.7	414.8	378.4	1485.9	2007.5	1887.8	868.0
80°	87.7	98.3	151.8	201.0	235.2	166.8	158.2	414.8	446.8	446.8	218.1
82.5°	29.9	38.5	81.2	132.6	115.4	64.1	74.8	106.9	119.7	126.1	64.1
85°	0.0	0.0	19.2	38.5	17.1	8.6	19.2	23.5	29.9	32.1	21.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	6.4	8.6	8.6
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°	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4	2129.4
2.5°	2184.9	2084.5	1932.7	1795.8	1691.1	1592.7	1517.9	1458.1	1447.4	1413.2	1417.4
5°	2283.3	2101.6	1821.5	1605.6	1453.8	1351.2	1265.6	1201.5	1173.7	1145.9	1124.5
7.5°	2435.1	2172.1	1778.7	1515.8	1338.3	1180.1	1047.6	940.7	889.4	857.3	835.9
10°	2621.1	2270.5	1780.9	1462.3	1199.4	957.8	776.1	658.5	602.9	585.8	583.7
12.5°	2843.4	2394.5	1798.0	1374.7	998.4	711.9	575.1	521.7	504.5	489.6	489.6
15°	3078.6	2533.4	1798.0	1214.3	761.1	555.9	498.1	463.9	442.5	434.0	429.7
17.5°	3326.6	2663.8	1755.2	994.1	583.7	489.6	442.5	410.5	393.4	380.5	376.3
20°	3591.7	2787.8	1648.3	761.1	500.3	438.3	393.4	361.3	344.2	331.4	331.4
22.5°	3861.1	2903.3	1475.2	585.8	442.5	389.1	346.3	316.4	299.3	286.5	286.5
25°	4111.2	2980.3	1252.8	483.2	399.8	346.3	307.9	277.9	258.7	250.1	245.9
27.5°	4344.2	3029.4	1007.0	425.4	359.2	310.0	269.4	241.6	226.6	220.2	215.9
30°	4585.8	3042.3	769.6	387.0	325.0	273.7	235.2	213.8	201.0	192.4	192.4
32.5°	4821.0	3027.3	587.9	354.9	295.0	241.6	209.5	190.3	179.6	173.2	171.0
35°	5060.4	2958.9	476.8	327.1	265.1	211.7	186.0	171.0	164.6	156.1	156.1
37.5°	5321.3	2866.9	414.8	299.3	235.2	190.3	166.8	156.1	147.5	141.1	139.0
40°	5646.2	2760.0	380.5	275.8	207.4	171.0	149.7	139.0	132.6	126.1	124.0
42.5°	6031.1	2655.3	363.4	250.1	186.0	151.8	134.7	121.9	115.4	106.9	104.8
45°	6576.2	2631.8	344.2	222.3	166.8	136.8	117.6	104.8	96.2	89.8	87.7
47.5°	7452.8	2698.0	312.1	192.4	147.5	119.7	100.5	89.8	79.1	72.7	68.4
50°	8322.9	2680.9	280.1	166.8	130.4	102.6	85.5	74.8	64.1	57.7	55.6
52.5°	8797.5	2599.7	250.1	147.5	113.3	87.7	72.7	59.9	53.4	47.0	44.9
55°	9227.2	2567.6	220.2	128.3	96.2	77.0	59.9	49.2	44.9	38.5	36.3
57.5°	10069.6	2642.5	194.6	111.2	83.4	66.3	51.3	40.6	36.3	29.9	27.8
60°	10950.4	2651.0	166.8	96.2	72.7	55.6	40.6	32.1	27.8	21.4	19.2
62.5°	11410.1	2435.1	136.8	81.2	59.9	47.0	34.2	25.7	21.4	12.8	12.8
65°	11025.2	1969.0	115.4	66.3	47.0	36.3	25.7	19.2	12.8	6.4	2.1
67.5°	9757.4	1400.3	96.2	53.4	34.2	25.7	19.2	12.8	2.1	0.0	0.0
70°	7144.9	799.6	74.8	38.5	25.7	17.1	12.8	6.4	0.0	0.0	0.0
72.5°	4391.3	427.6	55.6	25.7	19.2	12.8	10.7	4.3	0.0	0.0	0.0
75°	1665.4	205.2	34.2	17.1	15.0	10.7	6.4	2.1	0.0	0.0	0.0
77.5°	451.1	100.5	19.2	12.8	10.7	6.4	4.3	0.0	0.0	0.0	0.0
80°	117.6	47.0	12.8	8.6	6.4	4.3	0.0	0.0	0.0	0.0	0.0
82.5°	40.6	21.4	6.4	6.4	4.3	2.1	0.0	0.0	0.0	0.0	0.0
85°	17.1	8.6	4.3	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	2.1	2.1	2.1	2.1	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)