

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: P642839

Luminaire Tested: GWS-SA6D-760-U-T2R-W-HSS

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642839
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-SA6D-760-U-T2R-W-HSS
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: (96) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29146.5 lumens
Efficiency: N/A
Efficacy: 118.6 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

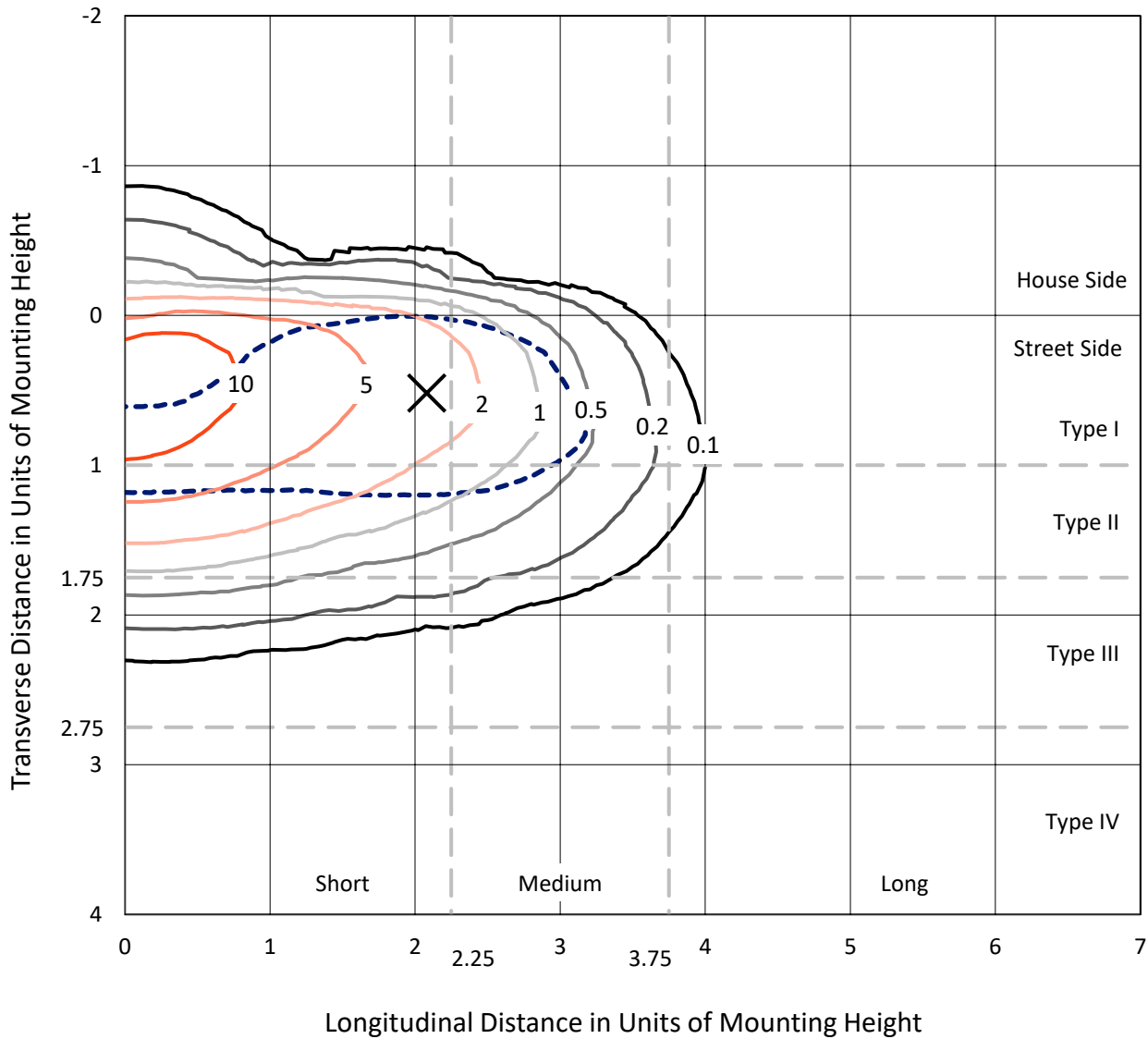
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

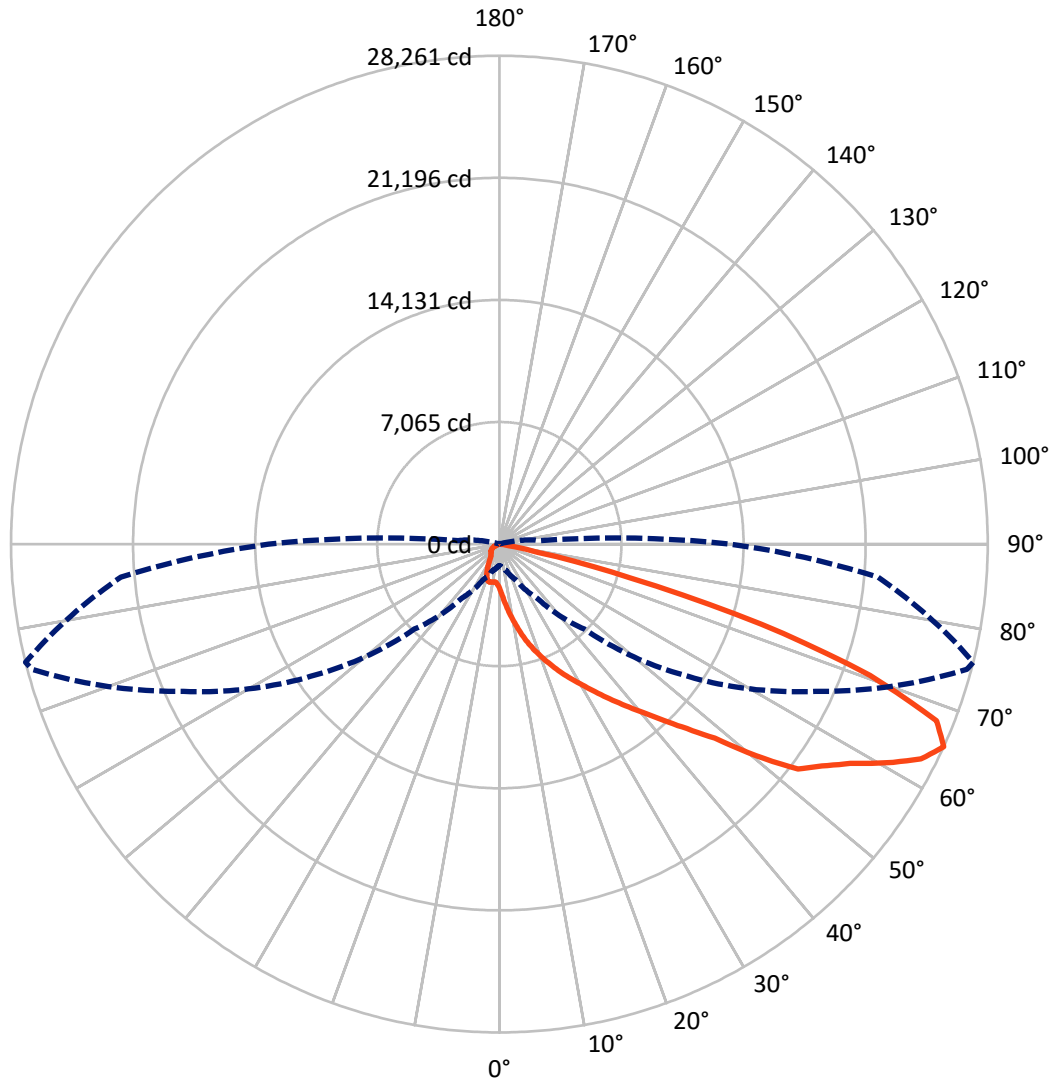
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14 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
House Side	Lumens	1611.6	0.0	1611.6
	% Fixture	5.5	0.0	5.5
Street Side	Lumens	27534.9	0.0	27534.9
	% Fixture	94.5	0.0	94.5
Total	Lumens	29146.5	0.0	29146.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	313.9	1.1
10°-20°	1191.2	4.1
20°-30°	2430.3	8.3
30°-40°	4322.3	14.8
40°-50°	6389.4	21.9
50°-60°	7315.4	25.1
60°-70°	5581.3	19.1
70°-80°	1563.4	5.4
80°-90°	39.4	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°	29146.5	100.0
0°-180°	29146.5	100.0

Coefficient of Utilization



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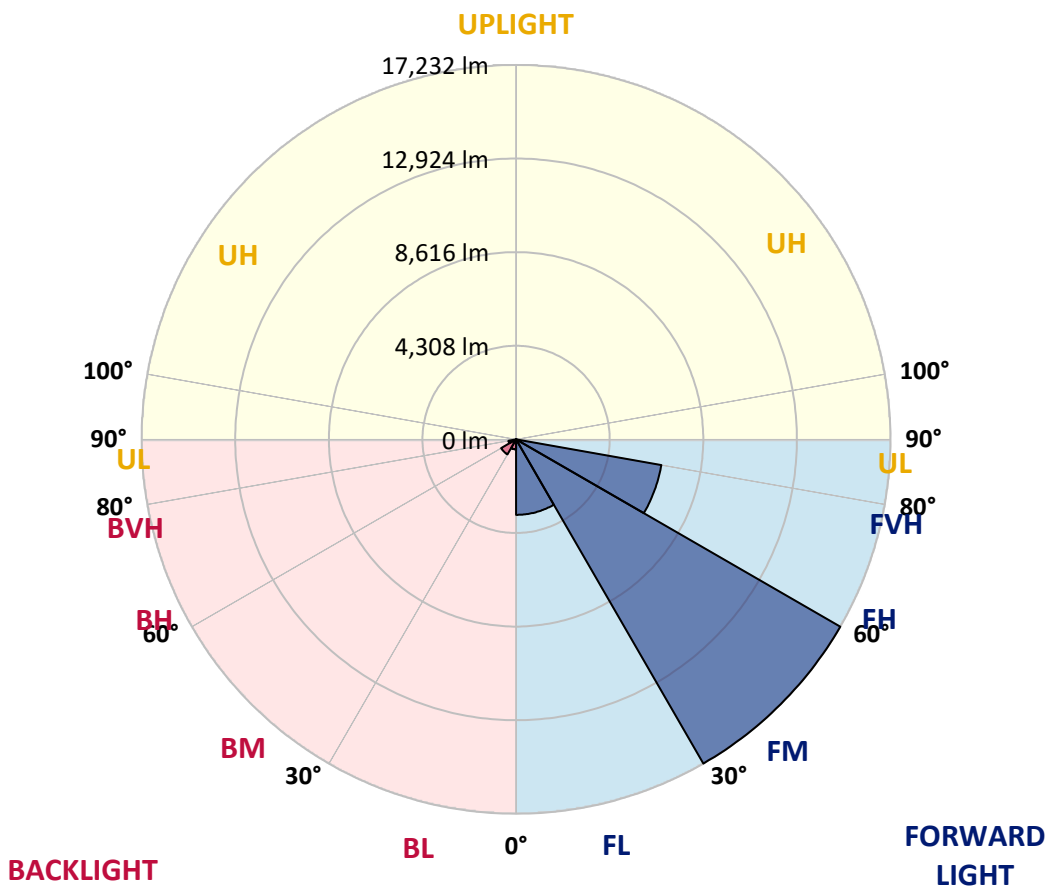
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3475.5	11.9			
FM (30°-60°)	17231.9	59.1			
FH (60°-80°)	6790.4	23.3			G3/7500
FVH (80°-90°)	37.1	0.1			G1/100
BL (0°-30°)	459.9	1.6	B1/500		
BM (30°-60°)	795.2	2.7	B1/1000		
BH (60°-80°)	354.3	1.2	B1/500		G1/500
BVH (80°-90°)	2.3	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°	2580.5	2580.5	2580.5	2580.5	2580.5	2580.5	2580.5	2580.5	2580.5	2580.5	2580.5
2.5°	3977.0	4036.6	3990.0	3912.2	3762.0	3616.9	3430.3	3173.8	2969.2	2943.3	2751.5
5°	5370.9	5365.7	5264.7	5163.6	5005.6	4756.9	4381.2	3904.5	3445.9	3407.0	2976.9
7.5°	6200.0	6207.8	6150.8	6073.1	5917.6	5661.1	5269.9	4694.7	4023.7	3945.9	3285.3
10°	6897.0	6894.4	6852.9	6816.6	6676.7	6505.7	6086.0	5453.8	4645.5	4523.7	3629.8
12.5°	7420.3	7438.5	7459.2	7495.5	7435.9	7267.5	6871.0	6181.9	5275.1	5140.3	4023.7
15°	7834.9	7840.0	7917.8	8057.7	8106.9	8018.8	7658.7	6886.6	5896.9	5780.3	4477.1
17.5°	7959.2	7969.6	8101.7	8358.2	8617.3	8666.5	8394.5	7596.5	6508.3	6384.0	4917.5
20°	8220.9	8244.2	8342.7	8568.1	8894.5	9158.8	9052.6	8314.2	7119.8	6956.5	5368.3
22.5°	9044.8	9057.8	9024.1	9052.6	9221.0	9526.7	9591.5	9008.5	7746.8	7573.2	5855.4
25°	10462.0	10467.2	10231.4	10008.6	9881.7	9938.7	10081.2	9648.5	8368.6	8197.6	6308.8
27.5°	11933.6	11951.8	11669.4	11291.1	10837.7	10578.6	10537.2	10234.0	8995.6	8806.4	6757.0
30°	13319.8	13319.8	13021.8	12560.6	11954.4	11449.2	11151.2	10824.7	9666.6	9459.3	7215.6
32.5°	14566.0	14555.6	14174.8	13674.7	13076.2	12521.8	11894.8	11441.4	10412.8	10182.2	7744.2
35°	15594.6	15568.7	15136.0	14656.7	14016.7	13604.8	12905.2	12104.6	11221.2	10990.6	8288.3
37.5°	16371.8	16343.3	15946.9	15439.1	14845.8	14578.9	13993.4	12900.1	12073.6	11863.7	8891.9
40°	16794.2	16737.2	16462.5	16084.3	15586.8	15353.6	15110.1	13887.2	13076.2	12814.6	9604.4
42.5°	16918.5	16851.2	16669.8	16493.6	16193.1	16009.1	16270.8	15001.3	14177.4	13952.0	10418.0
45°	16550.6	16511.8	16496.2	16623.2	16677.6	16729.4	17374.5	16234.5	15392.5	15221.5	11441.4
47.5°	15664.5	15654.2	15791.5	16320.0	16895.2	17441.9	18574.1	17755.4	16967.8	16783.8	12871.6
50°	14027.1	14133.3	14516.8	15444.3	16594.7	17846.1	19696.0	19864.4	19517.2	19247.7	14737.0
52.5°	11467.3	11672.0	12532.1	13941.6	15594.6	17732.1	20214.1	21553.6	21908.6	21628.8	16073.9
55°	8998.2	9189.9	9956.8	11744.5	13949.4	16864.1	20237.5	22136.6	22911.3	22652.2	16978.1
57.5°	6702.6	6878.8	7575.8	9285.8	11710.8	15156.7	19683.0	22460.4	24100.5	23934.7	18405.7
60°	4381.2	4554.8	5184.4	6679.3	9083.7	12669.5	18317.6	22393.1	25719.8	25704.2	20159.7
62.5°	2430.3	2567.6	3023.6	4189.5	6339.9	9811.7	16172.3	21716.9	27287.3	27385.7	21605.4
65°	1243.6	1331.7	1608.9	2303.3	3837.1	6956.5	13350.9	20167.5	28012.7	28261.4	21986.3
67.5°	813.5	842.0	909.4	1197.0	2054.6	4376.0	10047.5	17682.8	26991.9	27282.1	20709.0
70°	660.7	684.0	722.9	798.0	1059.7	2324.0	6599.0	14123.0	22553.7	22750.6	16491.0
72.5°	484.5	515.6	590.7	640.0	764.3	1274.7	3432.9	9270.2	15488.4	15835.5	10363.6
75°	357.5	375.7	437.9	505.2	624.4	805.8	1313.6	4873.5	7998.1	7796.0	4352.7
77.5°	215.0	228.0	279.8	323.9	445.6	502.6	458.6	1800.7	2432.8	2287.8	1051.9
80°	106.2	119.2	184.0	243.5	285.0	202.1	191.7	502.6	541.5	541.5	264.3
82.5°	36.3	46.6	98.5	160.6	139.9	77.7	90.7	129.5	145.1	152.9	77.7
85°	0.0	0.0	23.3	46.6	20.7	10.4	23.3	28.5	36.3	38.9	25.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.6	7.8	10.4	10.4
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°	2580.5	2580.5	2580.5	2580.5	2580.5	2580.5	2580.5	2580.5	2580.5	2580.5	2580.5
2.5°	2647.9	2526.1	2342.2	2176.3	2049.4	1930.2	1839.5	1767.0	1754.0	1712.6	1717.8
5°	2767.1	2546.8	2207.4	1945.8	1761.8	1637.4	1533.8	1456.1	1422.4	1388.7	1362.8
7.5°	2951.0	2632.3	2155.6	1836.9	1621.9	1430.2	1269.5	1140.0	1077.8	1038.9	1013.0
10°	3176.4	2751.5	2158.2	1772.2	1453.5	1160.7	940.5	798.0	730.6	709.9	707.3
12.5°	3445.9	2901.8	2178.9	1665.9	1209.9	862.8	696.9	632.2	611.5	593.3	593.3
15°	3730.9	3070.2	2178.9	1471.6	922.4	673.6	603.7	562.2	536.3	526.0	520.8
17.5°	4031.4	3228.3	2127.1	1204.8	707.3	593.3	536.3	497.5	476.7	461.2	456.0
20°	4352.7	3378.5	1997.6	922.4	606.3	531.1	476.7	437.9	417.1	401.6	401.6
22.5°	4679.2	3518.4	1787.7	709.9	536.3	471.5	419.7	383.5	362.7	347.2	347.2
25°	4982.3	3611.7	1518.3	585.5	484.5	419.7	373.1	336.8	313.5	303.1	298.0
27.5°	5264.7	3671.3	1220.3	515.6	435.3	375.7	326.5	292.8	274.6	266.9	261.7
30°	5557.5	3686.8	932.7	469.0	393.8	331.6	285.0	259.1	243.5	233.2	233.2
32.5°	5842.5	3668.7	712.5	430.1	357.5	292.8	253.9	230.6	217.6	209.9	207.3
35°	6132.6	3585.8	577.8	396.4	321.3	256.5	225.4	207.3	199.5	189.1	189.1
37.5°	6448.7	3474.4	502.6	362.7	285.0	230.6	202.1	189.1	178.8	171.0	168.4
40°	6842.5	3344.8	461.2	334.2	251.3	207.3	181.4	168.4	160.6	152.9	150.3
42.5°	7308.9	3217.9	440.5	303.1	225.4	184.0	163.2	147.7	139.9	129.5	127.0
45°	7969.6	3189.4	417.1	269.5	202.1	165.8	142.5	127.0	116.6	108.8	106.2
47.5°	9031.8	3269.7	378.3	233.2	178.8	145.1	121.8	108.8	95.9	88.1	82.9
50°	10086.3	3249.0	339.4	202.1	158.0	124.4	103.6	90.7	77.7	70.0	67.4
52.5°	10661.5	3150.5	303.1	178.8	137.3	106.2	88.1	72.5	64.8	57.0	54.4
55°	11182.3	3111.7	266.9	155.5	116.6	93.3	72.5	59.6	54.4	46.6	44.0
57.5°	12203.1	3202.3	235.8	134.7	101.0	80.3	62.2	49.2	44.0	36.3	33.7
60°	13270.5	3212.7	202.1	116.6	88.1	67.4	49.2	38.9	33.7	25.9	23.3
62.5°	13827.6	2951.0	165.8	98.5	72.5	57.0	41.5	31.1	25.9	15.5	15.5
65°	13361.2	2386.2	139.9	80.3	57.0	44.0	31.1	23.3	15.5	7.8	2.6
67.5°	11824.8	1697.0	116.6	64.8	41.5	31.1	23.3	15.5	2.6	0.0	0.0
70°	8658.8	969.0	90.7	46.6	31.1	20.7	15.5	7.8	0.0	0.0	0.0
72.5°	5321.7	518.2	67.4	31.1	23.3	15.5	13.0	5.2	0.0	0.0	0.0
75°	2018.3	248.7	41.5	20.7	18.1	13.0	7.8	2.6	0.0	0.0	0.0
77.5°	546.7	121.8	23.3	15.5	13.0	7.8	5.2	0.0	0.0	0.0	0.0
80°	142.5	57.0	15.5	10.4	7.8	5.2	0.0	0.0	0.0	0.0	0.0
82.5°	49.2	25.9	7.8	7.8	5.2	2.6	0.0	0.0	0.0	0.0	0.0
85°	20.7	10.4	5.2	5.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.8	2.6	2.6	2.6	2.6	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)