

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: P635744

Luminaire Tested: GWS-SA3E-735-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635744  
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-SA3E-735-U-T2R-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (48) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

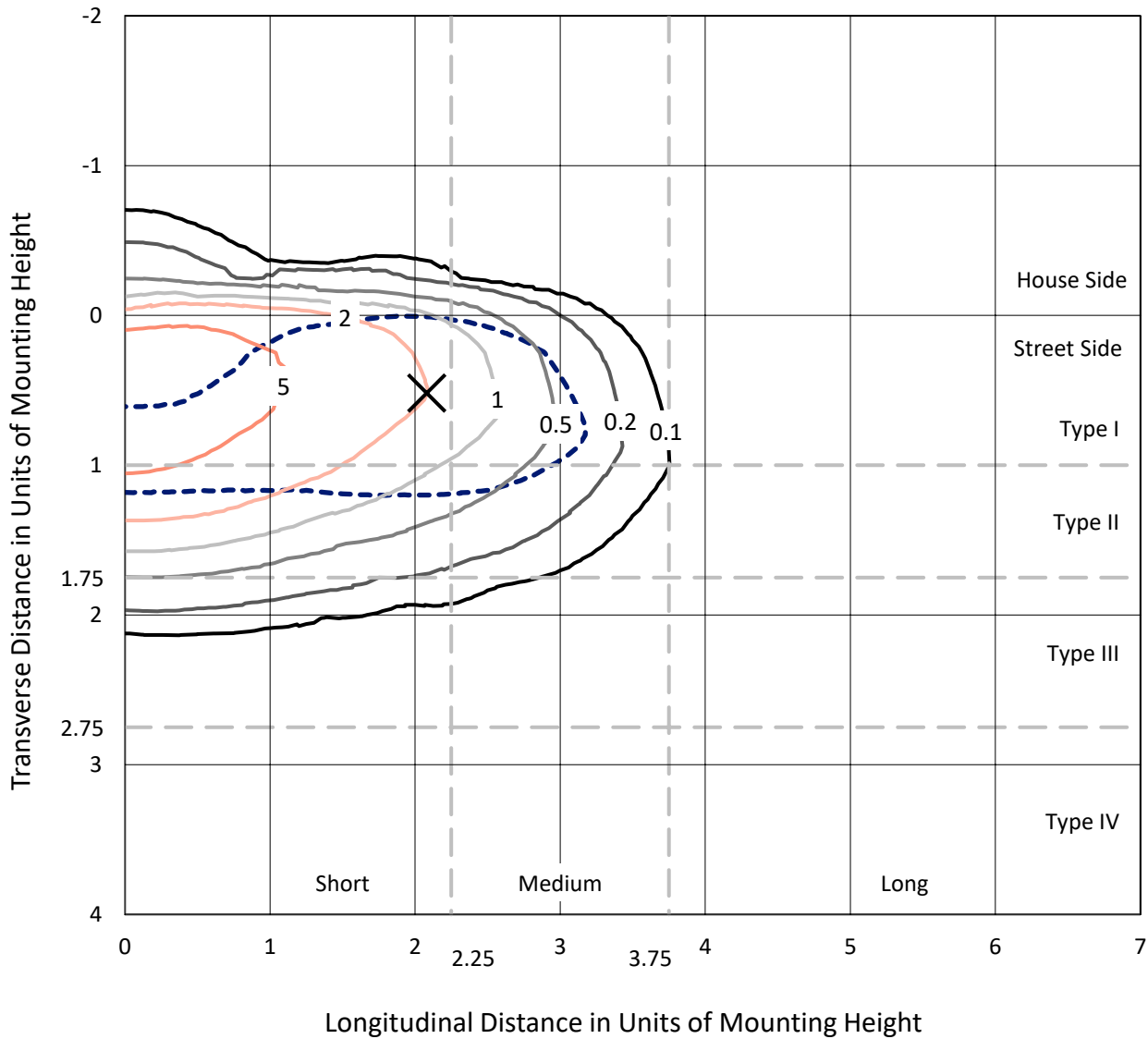
Lumens per Lamp: N/A  
Luminaire Lumens: 17492.7 lumens  
Efficiency: N/A  
Efficacy: 109.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 159.2  
Input Voltage (V): 120  
Input Current (Ain): 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

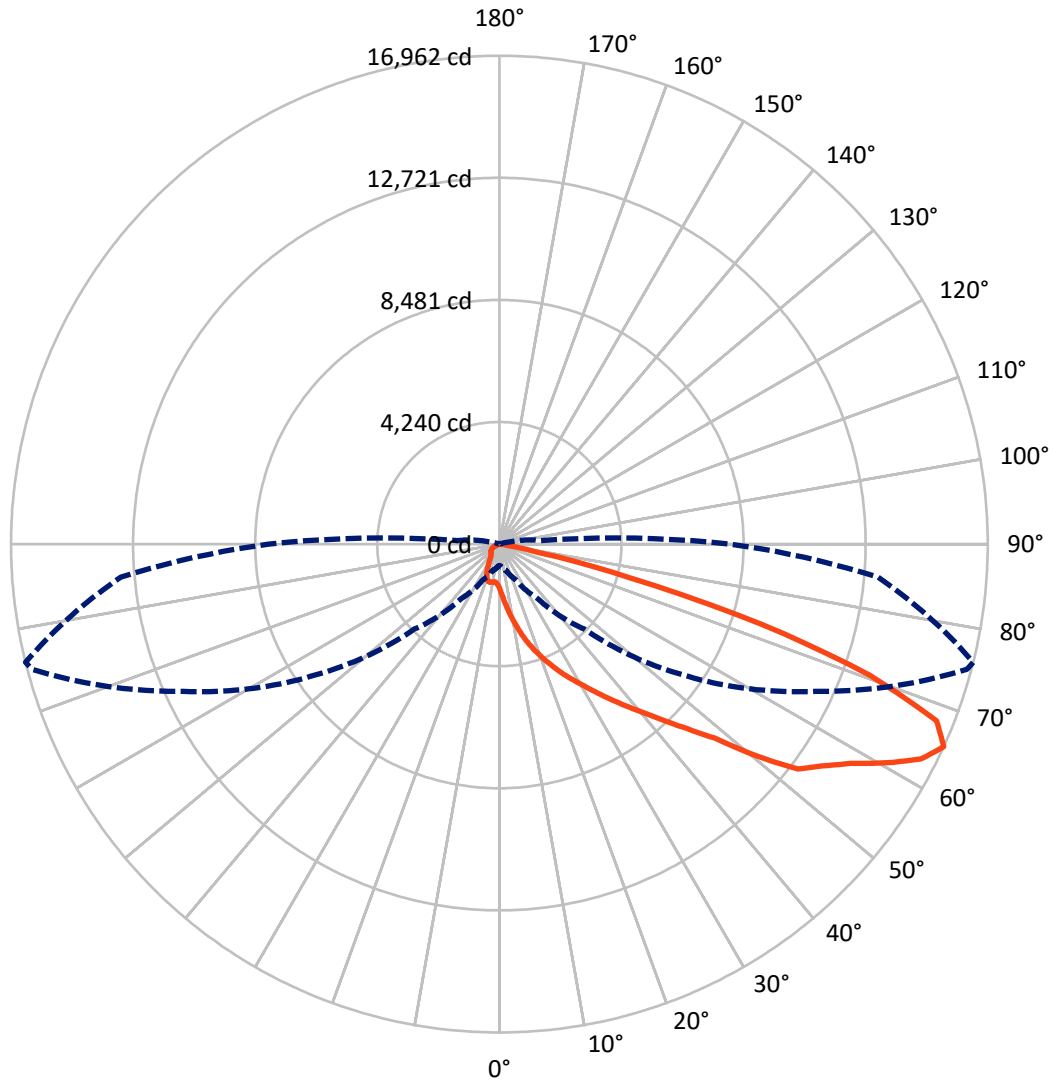
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 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	967.2	0.0	967.2
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	16525.5	0.0	16525.5
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	17492.7	0.0	17492.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	188.4	1.1
10°-20°	714.9	4.1
20°-30°	1458.6	8.3
30°-40°	2594.1	14.8
40°-50°	3834.7	21.9
50°-60°	4390.4	25.1
60°-70°	3349.7	19.1
70°-80°	938.3	5.4
80°-90°	23.6	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°	17492.7	100.0
0°-180°	17492.7	100.0

**Coefficient of Utilization**



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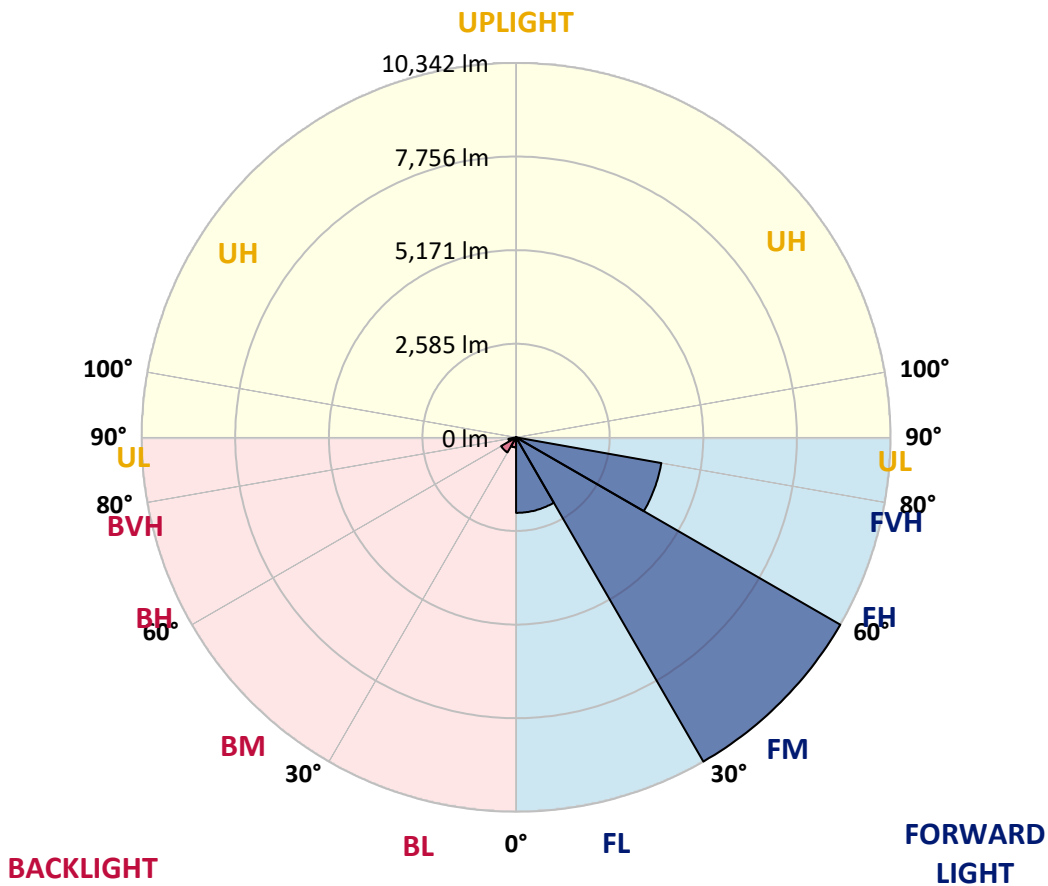
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2085.9	11.9			
FM (30°-60°)	10342.0	59.1			
FH (60°-80°)	4075.4	23.3			G2/5000
FVH (80°-90°)	22.2	0.1			G1/100
BL (0°-30°)	276.0	1.6	B1/500		
BM (30°-60°)	477.2	2.7	B1/1000		
BH (60°-80°)	212.6	1.2	B1/500		G1/500
BVH (80°-90°)	1.4	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7
2.5°	2386.9	2422.6	2394.6	2348.0	2257.8	2170.7	2058.8	1904.8	1782.0	1766.4	1651.4
5°	3223.4	3220.3	3159.7	3099.0	3004.2	2854.9	2629.4	2343.3	2068.1	2044.8	1786.7
7.5°	3721.0	3725.7	3691.5	3644.8	3551.5	3397.6	3162.8	2817.6	2414.9	2368.2	1971.7
10°	4139.3	4137.8	4112.9	4091.1	4007.1	3904.5	3652.6	3273.2	2788.0	2715.0	2178.5
12.5°	4453.4	4464.3	4476.7	4498.5	4462.7	4361.7	4123.8	3710.1	3165.9	3085.0	2414.9
15°	4702.2	4705.3	4752.0	4835.9	4865.5	4812.6	4596.5	4133.1	3539.1	3469.1	2687.0
17.5°	4776.8	4783.1	4862.4	5016.3	5171.8	5201.3	5038.1	4559.1	3906.1	3831.4	2951.3
20°	4933.9	4947.9	5007.0	5142.3	5338.2	5496.8	5433.0	4989.9	4273.0	4175.1	3221.9
22.5°	5428.4	5436.1	5415.9	5433.0	5534.1	5717.6	5756.5	5406.6	4649.3	4545.2	3514.2
25°	6278.9	6282.0	6140.5	6006.8	5930.6	5964.8	6050.4	5790.7	5022.5	4919.9	3786.3
27.5°	7162.2	7173.0	7003.5	6776.5	6504.4	6348.9	6324.0	6142.1	5398.8	5285.3	4055.3
30°	7994.1	7994.1	7815.2	7538.5	7174.6	6871.4	6692.6	6496.6	5801.6	5677.2	4330.6
32.5°	8742.0	8735.8	8507.2	8207.1	7847.9	7515.1	7138.8	6866.7	6249.4	6111.0	4647.8
35°	9359.3	9343.8	9084.1	8796.4	8412.3	8165.1	7745.3	7264.8	6734.5	6596.1	4974.3
37.5°	9825.8	9808.7	9570.8	9266.0	8909.9	8749.8	8398.3	7742.2	7246.1	7120.2	5336.6
40°	10079.3	10045.1	9880.2	9653.2	9354.7	9214.7	9068.5	8334.6	7847.9	7690.8	5764.2
42.5°	10153.9	10113.5	10004.6	9898.9	9718.5	9608.1	9765.2	9003.2	8508.8	8373.5	6252.5
45°	9933.1	9909.8	9900.4	9976.6	10009.3	10040.4	10427.6	9743.4	9238.0	9135.4	6866.7
47.5°	9401.3	9395.1	9477.5	9794.7	10139.9	10468.0	11147.5	10656.2	10183.4	10073.0	7725.1
50°	8418.6	8482.3	8712.5	9269.1	9959.5	10710.6	11820.8	11921.9	11713.5	11551.8	8844.6
52.5°	6882.3	7005.1	7521.4	8367.2	9359.3	10642.2	12131.8	12935.7	13148.8	12980.8	9647.0
55°	5400.4	5515.4	5975.7	7048.6	8371.9	10121.2	12145.8	13285.6	13750.5	13595.0	10189.7
57.5°	4022.7	4128.4	4546.7	5573.0	7028.4	9096.5	11813.0	13480.0	14464.3	14364.7	11046.4
60°	2629.4	2733.6	3111.5	4008.7	5451.7	7603.8	10993.6	13439.5	15436.1	15426.8	12099.2
62.5°	1458.6	1541.0	1814.6	2514.4	3805.0	5888.6	9706.1	13033.7	16376.9	16435.9	12966.8
65°	746.4	799.3	965.6	1382.4	2302.9	4175.1	8012.7	12103.8	16812.2	16961.5	13195.4
67.5°	488.3	505.4	545.8	718.4	1233.1	2626.3	6030.1	10612.6	16199.6	16373.7	12428.8
70°	396.5	410.5	433.8	478.9	636.0	1394.8	3960.5	8476.1	13535.9	13654.1	9897.3
72.5°	290.8	309.4	354.5	384.1	458.7	765.0	2060.3	5563.7	9295.6	9503.9	6219.8
75°	214.6	225.5	262.8	303.2	374.7	483.6	788.4	2924.9	4800.2	4678.9	2612.3
77.5°	129.1	136.8	167.9	194.4	267.5	301.7	275.2	1080.7	1460.1	1373.0	631.3
80°	63.8	71.5	110.4	146.2	171.0	121.3	115.1	301.7	325.0	325.0	158.6
82.5°	21.8	28.0	59.1	96.4	84.0	46.6	54.4	77.7	87.1	91.7	46.6
85°	0.0	0.0	14.0	28.0	12.4	6.2	14.0	17.1	21.8	23.3	15.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.7	6.2	6.2
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°	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7	1548.7
2.5°	1589.2	1516.1	1405.7	1306.2	1230.0	1158.4	1104.0	1060.5	1052.7	1027.8	1030.9
5°	1660.7	1528.5	1324.8	1167.8	1057.4	982.7	920.5	873.9	853.7	833.5	817.9
7.5°	1771.1	1579.8	1293.7	1102.5	973.4	858.3	761.9	684.2	646.9	623.5	608.0
10°	1906.4	1651.4	1295.3	1063.6	872.3	696.6	564.5	478.9	438.5	426.1	424.5
12.5°	2068.1	1741.6	1307.7	999.8	726.2	517.8	418.3	379.4	367.0	356.1	356.1
15°	2239.1	1842.6	1307.7	883.2	553.6	404.3	362.3	337.4	321.9	315.7	312.5
17.5°	2419.5	1937.5	1276.6	723.1	424.5	356.1	321.9	298.6	286.1	276.8	273.7
20°	2612.3	2027.7	1198.9	553.6	363.9	318.8	286.1	262.8	250.3	241.0	241.0
22.5°	2808.3	2111.6	1072.9	426.1	321.9	283.0	251.9	230.1	217.7	208.4	208.4
25°	2990.2	2167.6	911.2	351.4	290.8	251.9	223.9	202.1	188.2	181.9	178.8
27.5°	3159.7	2203.4	732.4	309.4	261.2	225.5	195.9	175.7	164.8	160.2	157.1
30°	3335.4	2212.7	559.8	281.4	236.4	199.0	171.0	155.5	146.2	139.9	139.9
32.5°	3506.4	2201.8	427.6	258.1	214.6	175.7	152.4	138.4	130.6	126.0	124.4
35°	3680.6	2152.1	346.8	237.9	192.8	153.9	135.3	124.4	119.7	113.5	113.5
37.5°	3870.3	2085.2	301.7	217.7	171.0	138.4	121.3	113.5	107.3	102.6	101.1
40°	4106.7	2007.5	276.8	200.6	150.8	124.4	108.8	101.1	96.4	91.7	90.2
42.5°	4386.5	1931.3	264.3	181.9	135.3	110.4	98.0	88.6	84.0	77.7	76.2
45°	4783.1	1914.2	250.3	161.7	121.3	99.5	85.5	76.2	70.0	65.3	63.8
47.5°	5420.6	1962.4	227.0	139.9	107.3	87.1	73.1	65.3	57.5	52.9	49.8
50°	6053.5	1949.9	203.7	121.3	94.9	74.6	62.2	54.4	46.6	42.0	40.4
52.5°	6398.7	1890.8	181.9	107.3	82.4	63.8	52.9	43.5	38.9	34.2	32.7
55°	6711.2	1867.5	160.2	93.3	70.0	56.0	43.5	35.8	32.7	28.0	26.4
57.5°	7323.9	1921.9	141.5	80.9	60.6	48.2	37.3	29.5	26.4	21.8	20.2
60°	7964.5	1928.2	121.3	70.0	52.9	40.4	29.5	23.3	20.2	15.5	14.0
62.5°	8298.8	1771.1	99.5	59.1	43.5	34.2	24.9	18.7	15.5	9.3	9.3
65°	8018.9	1432.1	84.0	48.2	34.2	26.4	18.7	14.0	9.3	4.7	1.6
67.5°	7096.8	1018.5	70.0	38.9	24.9	18.7	14.0	9.3	1.6	0.0	0.0
70°	5196.7	581.6	54.4	28.0	18.7	12.4	9.3	4.7	0.0	0.0	0.0
72.5°	3193.9	311.0	40.4	18.7	14.0	9.3	7.8	3.1	0.0	0.0	0.0
75°	1211.3	149.3	24.9	12.4	10.9	7.8	4.7	1.6	0.0	0.0	0.0
77.5°	328.1	73.1	14.0	9.3	7.8	4.7	3.1	0.0	0.0	0.0	0.0
80°	85.5	34.2	9.3	6.2	4.7	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	29.5	15.5	4.7	4.7	3.1	1.6	0.0	0.0	0.0	0.0	0.0
85°	12.4	6.2	3.1	3.1	1.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.7	1.6	1.6	1.6	1.6	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)