

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: P642674

Luminaire Tested: GWS-SA6D-735-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P642674  
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-735-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) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

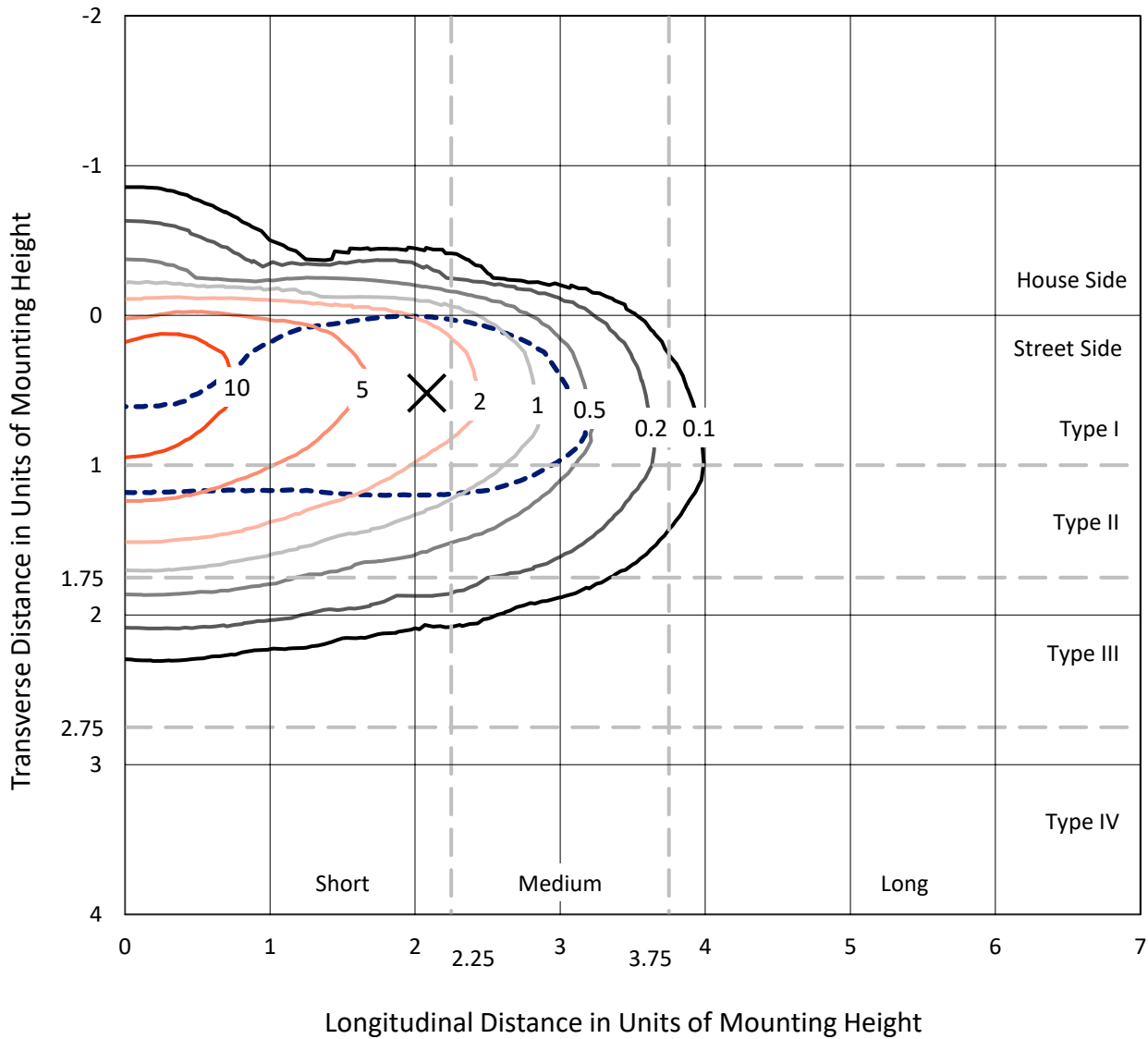
Lumens per Lamp: N/A  
Luminaire Lumens: 28493.5 lumens  
Efficiency: N/A  
Efficacy: 116.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 245.7  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

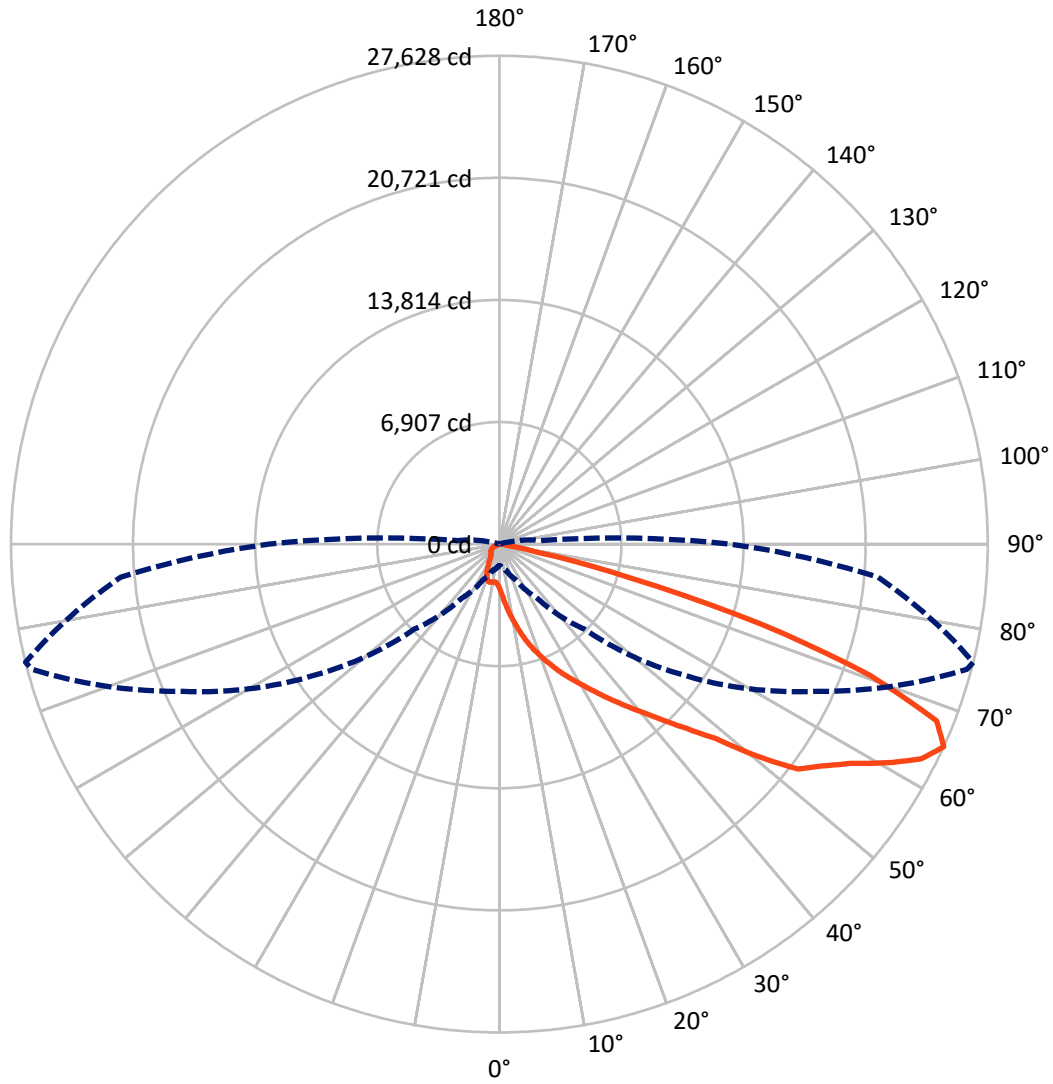
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 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	1575.5	0.0	1575.5
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	26918.0	0.0	26918.0
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	28493.5	0.0	28493.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	306.9	1.1
10°-20°	1164.5	4.1
20°-30°	2375.8	8.3
30°-40°	4225.5	14.8
40°-50°	6246.2	21.9
50°-60°	7151.5	25.1
60°-70°	5456.2	19.1
70°-80°	1528.4	5.4
80°-90°	38.5	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°	28493.5	100.0
0°-180°	28493.5	100.0

**Coefficient of Utilization**



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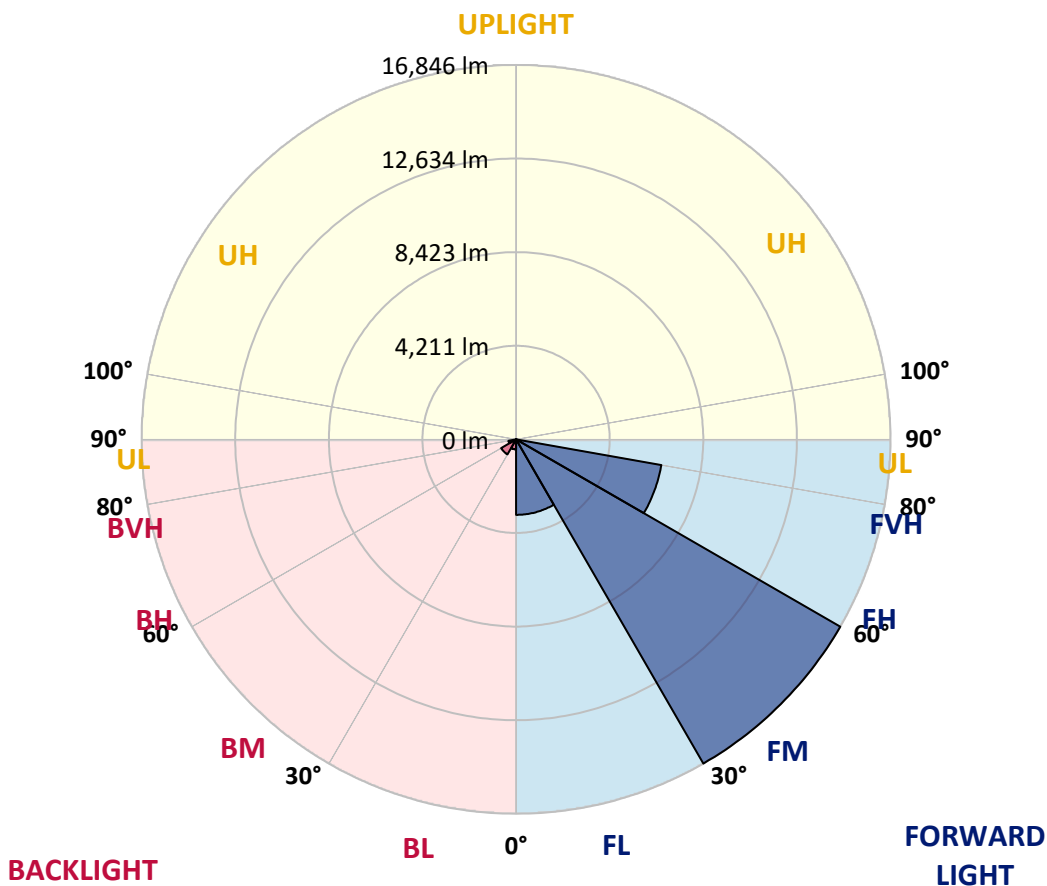
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3397.6	11.9			
FM (30°-60°)	16845.8	59.1			
FH (60°-80°)	6638.3	23.3			G3/7500
FVH (80°-90°)	36.2	0.1			G1/100
BL (0°-30°)	449.6	1.6	B1/500		
BM (30°-60°)	777.3	2.7	B1/1000		
BH (60°-80°)	346.4	1.2	B1/500		G1/500
BVH (80°-90°)	2.2	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°	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7
2.5°	3887.9	3946.2	3900.6	3824.6	3677.7	3535.9	3353.5	3102.7	2902.6	2877.3	2689.9
5°	5250.6	5245.5	5146.7	5048.0	4893.5	4650.3	4283.0	3817.0	3368.7	3330.7	2910.2
7.5°	6061.1	6068.7	6013.0	5937.0	5785.0	5534.3	5151.8	4589.5	3933.5	3857.5	3211.6
10°	6742.4	6739.9	6699.4	6663.9	6527.1	6360.0	5949.7	5331.6	4541.4	4422.3	3548.5
12.5°	7254.1	7271.8	7292.1	7327.5	7269.3	7104.6	6717.1	6043.4	5156.9	5025.2	3933.5
15°	7659.3	7664.4	7740.4	7877.1	7925.3	7839.2	7487.1	6732.3	5764.8	5650.8	4376.8
17.5°	7780.9	7791.0	7920.2	8171.0	8424.2	8472.4	8206.4	7426.3	6362.5	6240.9	4807.3
20°	8036.7	8059.5	8155.8	8376.1	8695.3	8953.6	8849.8	8127.9	6960.3	6800.7	5248.1
22.5°	8842.2	8854.8	8821.9	8849.8	9014.4	9313.3	9376.6	8806.7	7573.2	7403.5	5724.2
25°	10227.6	10232.7	10002.2	9784.4	9660.3	9716.0	9855.3	9432.3	8181.1	8013.9	6167.5
27.5°	11666.3	11684.0	11407.9	11038.1	10594.9	10341.6	10301.1	10004.7	8794.0	8609.1	6605.7
30°	13021.4	13021.4	12730.1	12279.2	11686.5	11192.6	10901.4	10582.2	9450.0	9247.4	7054.0
32.5°	14239.7	14229.5	13857.2	13368.4	12783.3	12241.2	11628.3	11185.0	10179.5	9954.1	7570.7
35°	15245.2	15219.9	14796.9	14328.3	13702.7	13300.0	12616.1	11833.5	10969.8	10744.3	8102.6
37.5°	16005.1	15977.2	15589.7	15093.2	14513.2	14252.3	13679.9	12611.0	11803.1	11597.9	8692.7
40°	16417.9	16362.2	16093.7	15723.9	15237.6	15009.6	14771.6	13576.1	12783.3	12527.5	9389.3
42.5°	16539.5	16473.6	16296.3	16124.1	15830.3	15650.5	15906.3	14665.2	13859.7	13639.4	10184.6
45°	16179.8	16141.8	16126.6	16250.7	16303.9	16354.6	16985.3	15870.8	15047.6	14880.5	11185.0
47.5°	15313.6	15303.5	15437.7	15954.4	16516.7	17051.1	18158.0	17357.6	16587.6	16407.8	12583.2
50°	13712.8	13816.7	14191.5	15098.3	16222.9	17446.2	19254.7	19419.3	19079.9	18816.5	14406.8
52.5°	11210.4	11410.5	12251.4	13629.2	15245.2	17334.8	19761.3	21070.7	21417.7	21144.2	15713.8
55°	8796.6	8984.0	9733.7	11481.4	13636.8	16486.3	19784.1	21640.6	22398.0	22144.7	16597.7
57.5°	6552.5	6724.7	7406.0	9077.7	11448.5	14817.1	19242.0	21957.2	23560.5	23398.4	17993.3
60°	4283.0	4452.7	5068.2	6529.7	8880.2	12385.6	17907.2	21891.4	25143.6	25128.4	19708.1
62.5°	2375.8	2510.0	2955.8	4095.6	6197.9	9591.9	15810.0	21230.3	26675.9	26772.2	21121.4
65°	1215.8	1301.9	1572.9	2251.7	3751.1	6800.7	13051.8	19715.7	27385.1	27628.3	21493.7
67.5°	795.3	823.2	889.0	1170.2	2008.5	4278.0	9822.4	17286.7	26387.2	26670.9	20245.0
70°	645.9	668.7	706.7	780.1	1035.9	2272.0	6451.2	13806.5	22048.4	22240.9	16121.6
72.5°	473.6	504.0	577.5	625.6	747.2	1246.2	3356.0	9062.5	15141.3	15480.8	10131.4
75°	349.5	367.3	428.1	493.9	610.4	787.7	1284.2	4764.3	7818.9	7621.3	4255.2
77.5°	210.2	222.9	273.5	316.6	435.6	491.4	448.3	1760.3	2378.3	2236.5	1028.3
80°	103.8	116.5	179.8	238.1	278.6	197.6	187.4	491.4	529.4	529.4	258.4
82.5°	35.5	45.6	96.2	157.0	136.8	76.0	88.6	126.6	141.8	149.4	76.0
85°	0.0	0.0	22.8	45.6	20.3	10.1	22.8	27.9	35.5	38.0	25.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	7.6	10.1	10.1
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°	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7	2522.7
2.5°	2588.6	2469.5	2289.7	2127.6	2003.5	1887.0	1798.3	1727.4	1714.7	1674.2	1679.3
5°	2705.1	2489.8	2158.0	1902.2	1722.3	1600.8	1499.4	1423.5	1390.5	1357.6	1332.3
7.5°	2884.9	2573.4	2107.3	1795.8	1585.6	1398.1	1241.1	1114.5	1053.7	1015.7	990.3
10°	3105.3	2689.9	2109.9	1732.5	1420.9	1134.7	919.4	780.1	714.3	694.0	691.5
12.5°	3368.7	2836.8	2130.1	1628.6	1182.8	843.4	681.3	618.0	597.8	580.0	580.0
15°	3647.3	3001.4	2130.1	1438.7	901.7	658.5	590.2	549.6	524.3	514.2	509.1
17.5°	3941.1	3155.9	2079.5	1177.8	691.5	580.0	524.3	486.3	466.0	450.8	445.8
20°	4255.2	3302.8	1952.8	901.7	592.7	519.2	466.0	428.1	407.8	392.6	392.6
22.5°	4574.3	3439.6	1747.7	694.0	524.3	461.0	410.3	374.9	354.6	339.4	339.4
25°	4870.7	3530.8	1484.2	572.4	473.6	410.3	364.7	329.3	306.5	296.3	291.3
27.5°	5146.7	3589.0	1193.0	504.0	425.5	367.3	319.1	286.2	268.5	260.9	255.8
30°	5433.0	3604.2	911.8	458.4	385.0	324.2	278.6	253.3	238.1	228.0	228.0
32.5°	5711.6	3586.5	696.5	420.5	349.5	286.2	248.2	225.4	212.8	205.2	202.6
35°	5995.2	3505.5	564.8	387.5	314.1	250.8	220.4	202.6	195.0	184.9	184.9
37.5°	6304.3	3396.5	491.4	354.6	278.6	225.4	197.6	184.9	174.8	167.2	164.6
40°	6689.2	3269.9	450.8	326.7	245.7	202.6	177.3	164.6	157.0	149.4	146.9
42.5°	7145.2	3145.8	430.6	296.3	220.4	179.8	159.6	144.4	136.8	126.6	124.1
45°	7791.0	3117.9	407.8	263.4	197.6	162.1	139.3	124.1	114.0	106.4	103.8
47.5°	8829.5	3196.5	369.8	228.0	174.8	141.8	119.0	106.4	93.7	86.1	81.1
50°	9860.4	3176.2	331.8	197.6	154.5	121.6	101.3	88.6	76.0	68.4	65.9
52.5°	10422.7	3079.9	296.3	174.8	134.2	103.8	86.1	70.9	63.3	55.7	53.2
55°	10931.8	3041.9	260.9	152.0	114.0	91.2	70.9	58.3	53.2	45.6	43.1
57.5°	11929.7	3130.6	230.5	131.7	98.8	78.5	60.8	48.1	43.1	35.5	32.9
60°	12973.2	3140.7	197.6	114.0	86.1	65.9	48.1	38.0	32.9	25.3	22.8
62.5°	13517.8	2884.9	162.1	96.2	70.9	55.7	40.5	30.4	25.3	15.2	15.2
65°	13061.9	2332.8	136.8	78.5	55.7	43.1	30.4	22.8	15.2	7.6	2.5
67.5°	11559.9	1659.0	114.0	63.3	40.5	30.4	22.8	15.2	2.5	0.0	0.0
70°	8464.8	947.3	88.6	45.6	30.4	20.3	15.2	7.6	0.0	0.0	0.0
72.5°	5202.5	506.6	65.9	30.4	22.8	15.2	12.7	5.1	0.0	0.0	0.0
75°	1973.1	243.2	40.5	20.3	17.7	12.7	7.6	2.5	0.0	0.0	0.0
77.5°	534.4	119.0	22.8	15.2	12.7	7.6	5.1	0.0	0.0	0.0	0.0
80°	139.3	55.7	15.2	10.1	7.6	5.1	0.0	0.0	0.0	0.0	0.0
82.5°	48.1	25.3	7.6	7.6	5.1	2.5	0.0	0.0	0.0	0.0	0.0
85°	20.3	10.1	5.1	5.1	2.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.6	2.5	2.5	2.5	2.5	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)