

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: P640309

Luminaire Tested: GWS-SA5D-750-U-T2R-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640309  
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-SA5D-750-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) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

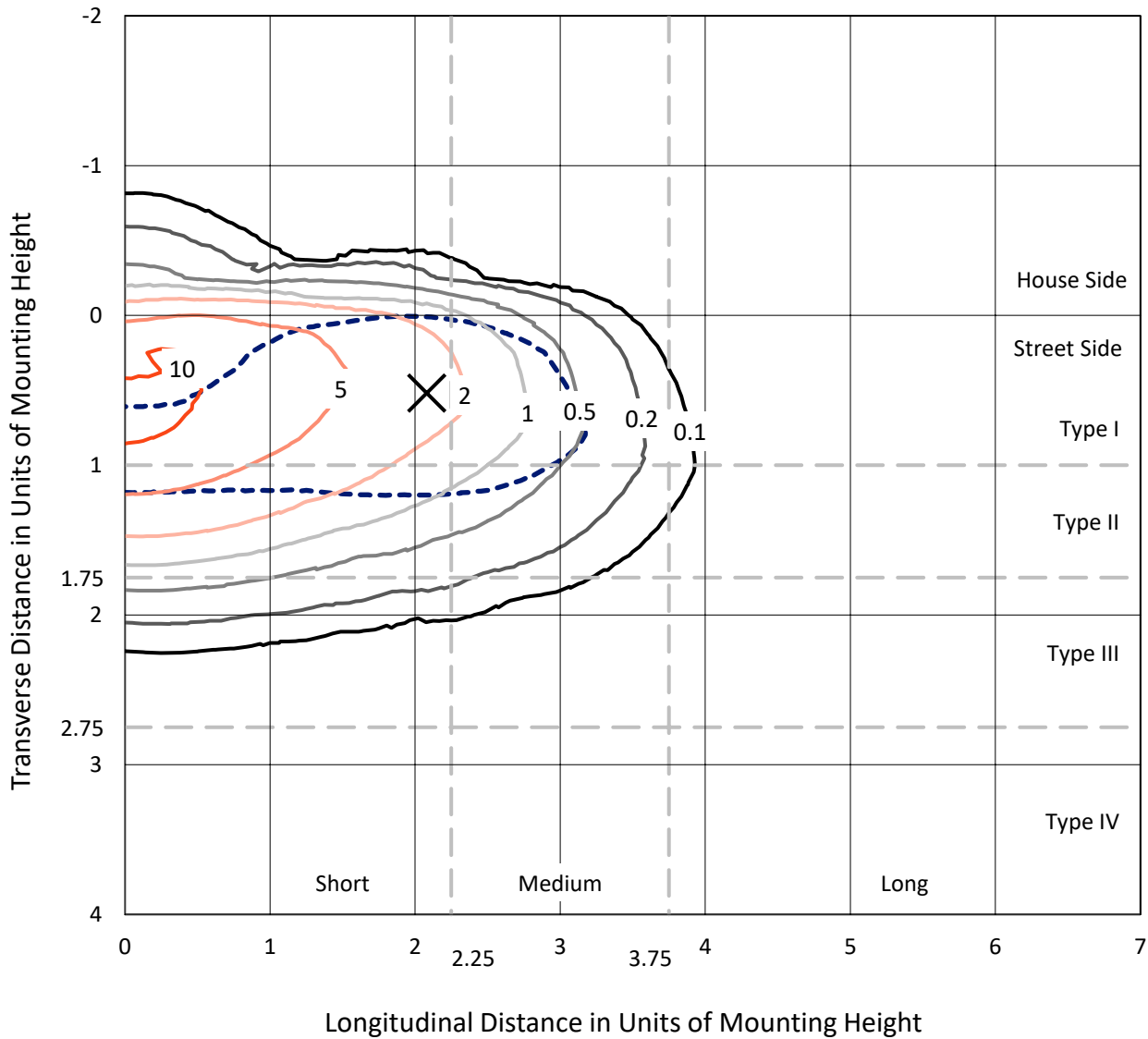
Lumens per Lamp: N/A  
Luminaire Lumens: 24782.6 lumens  
Efficiency: N/A  
Efficacy: 121.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G3  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

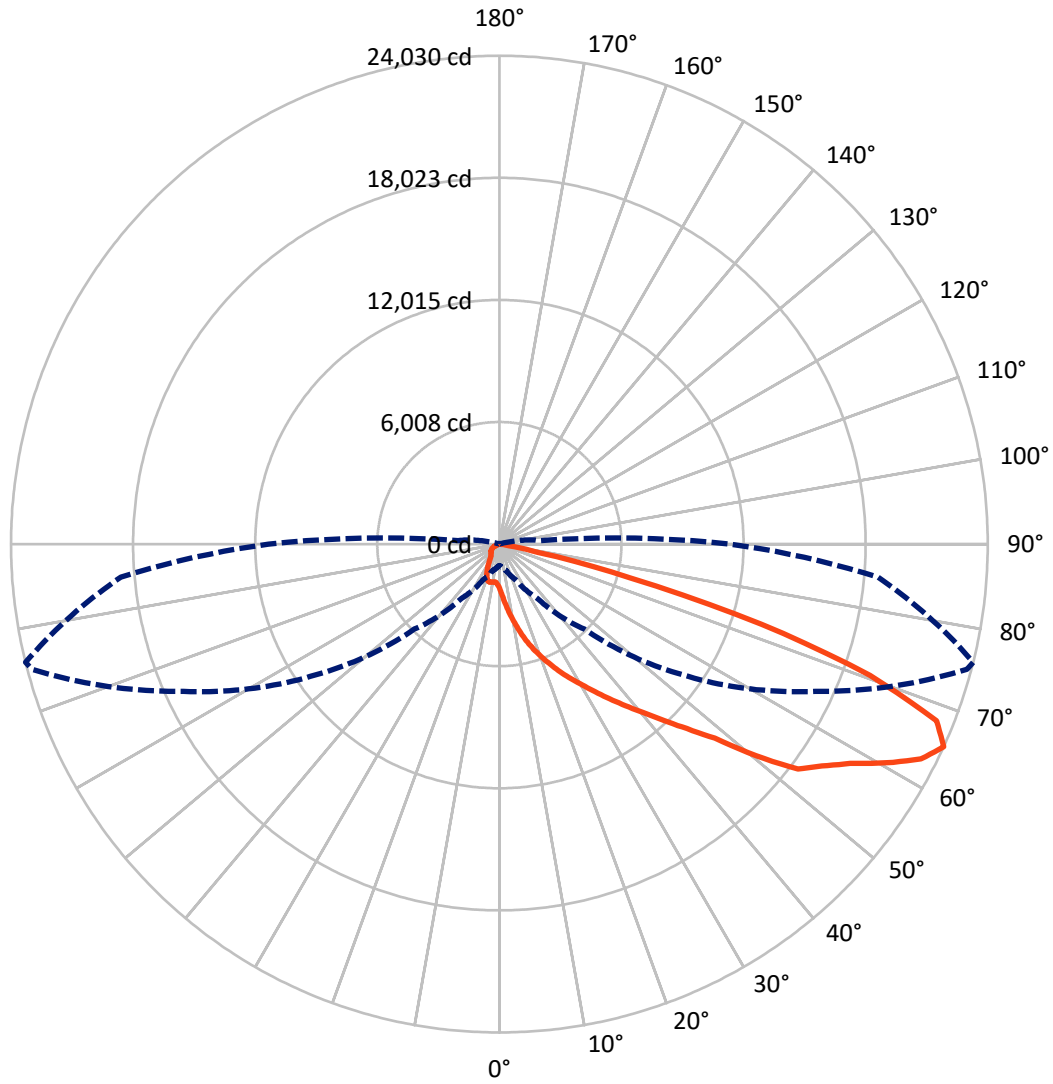
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	1370.3	0.0	1370.3
	% Fixture	5.5	0.0	5.5
<b>Street Side</b>	Lumens	23412.3	0.0	23412.3
	% Fixture	94.5	0.0	94.5
<b>Total</b>	Lumens	24782.6	0.0	24782.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	266.9	1.1
10°-20°	1012.9	4.1
20°-30°	2066.4	8.3
30°-40°	3675.2	14.8
40°-50°	5432.7	21.9
50°-60°	6220.1	25.1
60°-70°	4745.6	19.1
70°-80°	1329.3	5.4
80°-90°	33.5	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°	24782.6	100.0
0°-180°	24782.6	100.0

**Coefficient of Utilization**



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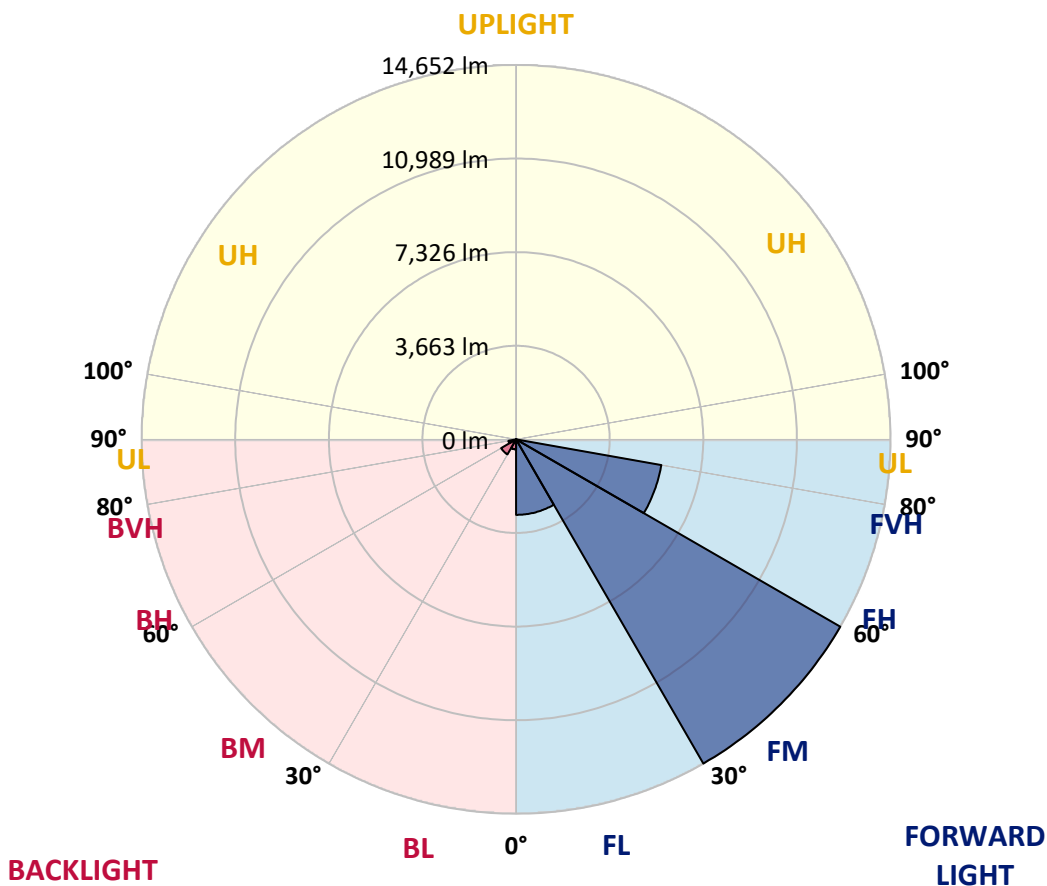
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2955.1	11.9			
FM (30°-60°)	14651.9	59.1			
FH (60°-80°)	5773.7	23.3			G3/7500
FVH (80°-90°)	31.5	0.1			G1/100
BL (0°-30°)	391.0	1.6	B1/500		
BM (30°-60°)	676.1	2.7	B1/1000		
BH (60°-80°)	301.2	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°	2194.2	2194.2	2194.2	2194.2	2194.2	2194.2	2194.2	2194.2	2194.2	2194.2	2194.2
2.5°	3381.6	3432.2	3392.6	3326.5	3198.7	3075.4	2916.7	2698.6	2524.6	2502.6	2339.6
5°	4566.8	4562.4	4476.4	4390.5	4256.1	4044.7	3725.2	3319.9	2930.0	2896.9	2531.2
7.5°	5271.7	5278.3	5229.9	5163.8	5031.6	4813.5	4480.9	3991.8	3421.2	3355.1	2793.4
10°	5864.3	5862.1	5826.9	5796.0	5677.1	5531.7	5174.8	4637.3	3949.9	3846.4	3086.4
12.5°	6309.3	6324.7	6342.4	6373.2	6322.5	6179.3	5842.3	5256.3	4485.3	4370.7	3421.2
15°	6661.8	6666.2	6732.3	6851.3	6893.1	6818.2	6512.0	5855.5	5014.0	4914.8	3806.7
17.5°	6767.5	6776.4	6888.7	7106.8	7327.1	7369.0	7137.6	6459.1	5533.9	5428.1	4181.2
20°	6990.0	7009.9	7093.6	7285.2	7562.8	7787.5	7697.2	7069.3	6053.8	5915.0	4564.6
22.5°	7690.6	7701.6	7673.0	7697.2	7840.4	8100.3	8155.4	7659.7	6586.9	6439.3	4978.7
25°	8895.6	8900.0	8699.6	8510.1	8402.2	8450.6	8571.8	8203.9	7115.6	6970.2	5364.2
27.5°	10146.9	10162.3	9922.2	9600.6	9215.0	8994.8	8959.5	8701.8	7648.7	7487.9	5745.4
30°	11325.5	11325.5	11072.2	10680.0	10164.5	9735.0	9481.6	9204.0	8219.3	8043.1	6135.3
32.5°	12385.1	12376.3	12052.5	11627.3	11118.4	10647.0	10113.9	9728.3	8853.8	8657.7	6584.7
35°	13259.7	13237.7	12869.8	12462.2	11918.1	11567.8	10973.0	10292.3	9541.1	9345.0	7047.3
37.5°	13920.6	13896.4	13559.3	13127.5	12623.1	12396.1	11898.3	10968.6	10265.9	10087.4	7560.6
40°	14279.7	14231.2	13997.7	13676.1	13253.1	13054.8	12847.8	11808.0	11118.4	10895.9	8166.4
42.5°	14385.4	14328.2	14173.9	14024.1	13768.6	13612.2	13834.7	12755.2	12054.7	11863.0	8858.2
45°	14072.6	14039.6	14026.3	14134.3	14180.6	14224.6	14773.2	13803.8	13087.9	12942.5	9728.3
47.5°	13319.2	13310.4	13427.1	13876.5	14365.6	14830.4	15793.1	15097.0	14427.3	14270.9	10944.4
50°	11926.9	12017.2	12343.3	13131.9	14110.1	15174.1	16747.0	16890.2	16595.0	16365.9	12530.5
52.5°	9750.4	9924.4	10655.8	11854.2	13259.7	15077.2	17187.6	18326.6	18628.4	18390.4	13667.3
55°	7650.9	7814.0	8466.0	9986.1	11860.8	14339.2	17207.4	18822.2	19480.9	19260.6	14436.1
57.5°	5699.1	5848.9	6441.5	7895.5	9957.5	12887.4	16736.0	19097.6	20492.1	20351.1	15649.9
60°	3725.2	3872.8	4408.2	5679.3	7723.6	10772.6	15575.0	19040.3	21868.9	21855.7	17141.4
62.5°	2066.4	2183.1	2570.9	3562.2	5390.7	8342.7	13751.0	18465.3	23201.7	23285.5	18370.6
65°	1057.4	1132.3	1368.0	1958.4	3262.6	5915.0	11351.9	17148.0	23818.6	24030.1	18694.5
67.5°	691.7	716.0	773.2	1017.8	1747.0	3720.8	8543.1	15035.3	22950.6	23197.3	17608.4
70°	561.8	581.6	614.6	678.5	901.0	1976.1	5611.0	12008.4	19176.9	19344.3	14021.9
72.5°	412.0	438.4	502.3	544.1	649.9	1083.9	2918.9	7882.2	13169.4	13464.6	8811.9
75°	304.0	319.4	372.3	429.6	530.9	685.1	1116.9	4143.8	6800.6	6628.8	3701.0
77.5°	182.8	193.9	237.9	275.4	378.9	427.4	389.9	1531.1	2068.6	1945.2	894.4
80°	90.3	101.3	156.4	207.1	242.3	171.8	163.0	427.4	460.4	460.4	224.7
82.5°	30.8	39.7	83.7	136.6	119.0	66.1	77.1	110.1	123.4	130.0	66.1
85°	0.0	0.0	19.8	39.7	17.6	8.8	19.8	24.2	30.8	33.0	22.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2	6.6	8.8	8.8
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°	2194.2	2194.2	2194.2	2194.2	2194.2	2194.2	2194.2	2194.2	2194.2	2194.2	2194.2
2.5°	2251.4	2147.9	1991.5	1850.5	1742.6	1641.2	1564.1	1502.4	1491.4	1456.2	1460.6
5°	2352.8	2165.5	1876.9	1654.4	1498.0	1392.3	1304.2	1238.1	1209.4	1180.8	1158.8
7.5°	2509.2	2238.2	1832.9	1561.9	1379.1	1216.0	1079.5	969.3	916.4	883.4	861.4
10°	2700.8	2339.6	1835.1	1506.8	1235.9	986.9	799.7	678.5	621.2	603.6	601.4
12.5°	2930.0	2467.3	1852.7	1416.5	1028.8	733.6	592.6	537.5	519.9	504.5	504.5
15°	3172.3	2610.5	1852.7	1251.3	784.3	572.8	513.3	478.0	456.0	447.2	442.8
17.5°	3427.8	2744.9	1808.6	1024.4	601.4	504.5	456.0	423.0	405.3	392.1	387.7
20°	3701.0	2872.7	1698.5	784.3	515.5	451.6	405.3	372.3	354.7	341.5	341.5
22.5°	3978.6	2991.6	1520.1	603.6	456.0	400.9	356.9	326.0	308.4	295.2	295.2
25°	4236.3	3070.9	1290.9	497.9	412.0	356.9	317.2	286.4	266.6	257.7	253.3
27.5°	4476.4	3121.6	1037.6	438.4	370.1	319.4	277.6	248.9	233.5	226.9	222.5
30°	4725.4	3134.8	793.1	398.7	334.9	282.0	242.3	220.3	207.1	198.3	198.3
32.5°	4967.7	3119.4	605.8	365.7	304.0	248.9	215.9	196.1	185.0	178.4	176.2
35°	5214.4	3048.9	491.3	337.1	273.2	218.1	191.7	176.2	169.6	160.8	160.8
37.5°	5483.2	2954.2	427.4	308.4	242.3	196.1	171.8	160.8	152.0	145.4	143.2
40°	5818.1	2844.0	392.1	284.2	213.7	176.2	154.2	143.2	136.6	130.0	127.8
42.5°	6214.6	2736.1	374.5	257.7	191.7	156.4	138.8	125.6	119.0	110.1	107.9
45°	6776.4	2711.9	354.7	229.1	171.8	141.0	121.2	107.9	99.1	92.5	90.3
47.5°	7679.6	2780.2	321.6	198.3	152.0	123.4	103.5	92.5	81.5	74.9	70.5
50°	8576.2	2762.5	288.6	171.8	134.4	105.7	88.1	77.1	66.1	59.5	57.3
52.5°	9065.2	2678.8	257.7	152.0	116.8	90.3	74.9	61.7	55.1	48.5	46.3
55°	9508.0	2645.8	226.9	132.2	99.1	79.3	61.7	50.7	46.3	39.7	37.5
57.5°	10376.0	2722.9	200.5	114.6	85.9	68.3	52.9	41.9	37.5	30.8	28.6
60°	11283.6	2731.7	171.8	99.1	74.9	57.3	41.9	33.0	28.6	22.0	19.8
62.5°	11757.3	2509.2	141.0	83.7	61.7	48.5	35.2	26.4	22.0	13.2	13.2
65°	11360.7	2028.9	119.0	68.3	48.5	37.5	26.4	19.8	13.2	6.6	2.2
67.5°	10054.4	1442.9	99.1	55.1	35.2	26.4	19.8	13.2	2.2	0.0	0.0
70°	7362.3	823.9	77.1	39.7	26.4	17.6	13.2	6.6	0.0	0.0	0.0
72.5°	4524.9	440.6	57.3	26.4	19.8	13.2	11.0	4.4	0.0	0.0	0.0
75°	1716.1	211.5	35.2	17.6	15.4	11.0	6.6	2.2	0.0	0.0	0.0
77.5°	464.8	103.5	19.8	13.2	11.0	6.6	4.4	0.0	0.0	0.0	0.0
80°	121.2	48.5	13.2	8.8	6.6	4.4	0.0	0.0	0.0	0.0	0.0
82.5°	41.9	22.0	6.6	6.6	4.4	2.2	0.0	0.0	0.0	0.0	0.0
85°	17.6	8.8	4.4	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	2.2	2.2	2.2	2.2	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)