

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: P637828

Luminaire Tested: GWS-SA4D-750-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P637828  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA4D-750-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (64) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14879.8 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

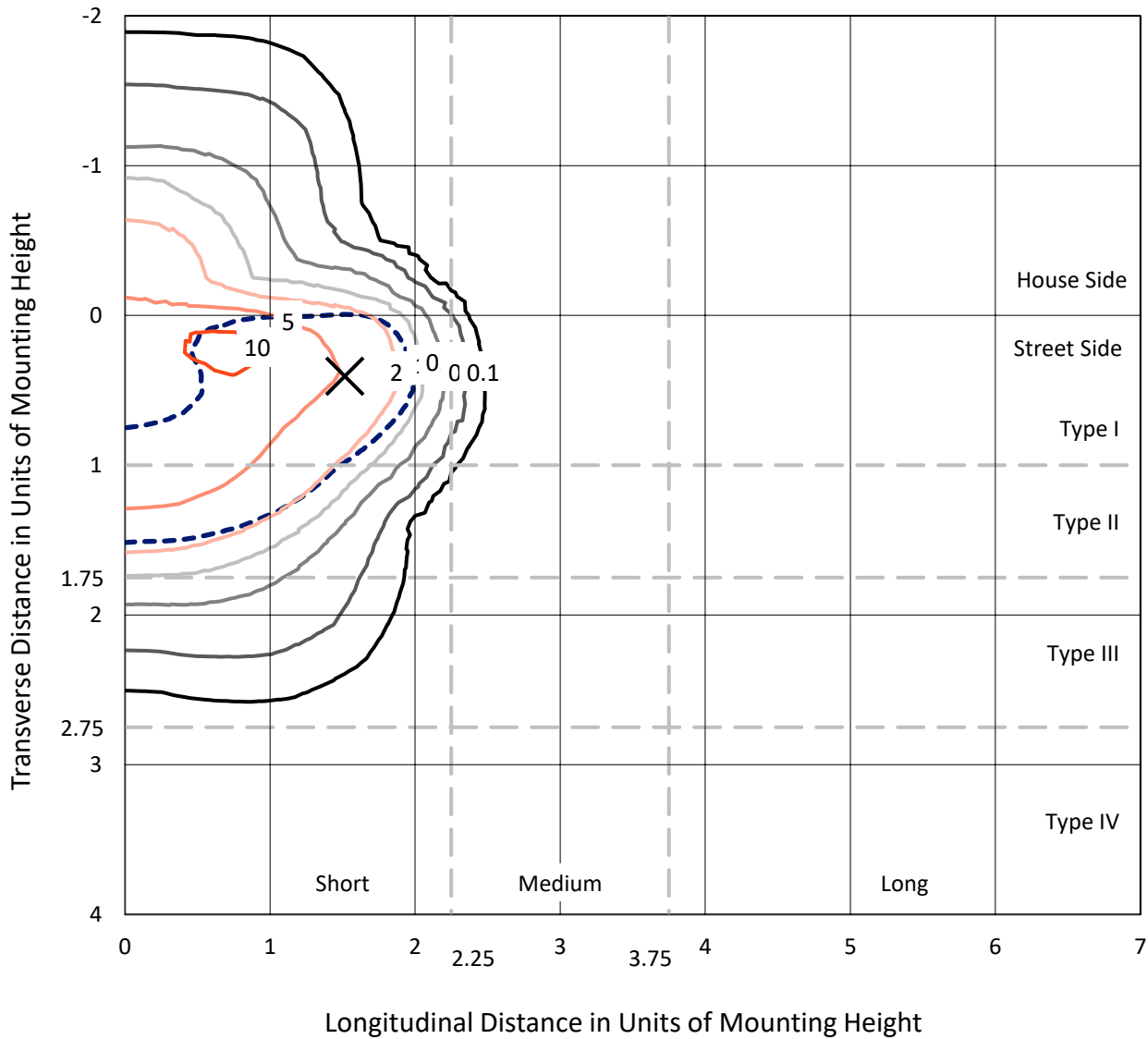
Input Watts (W): 162.1  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 0  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

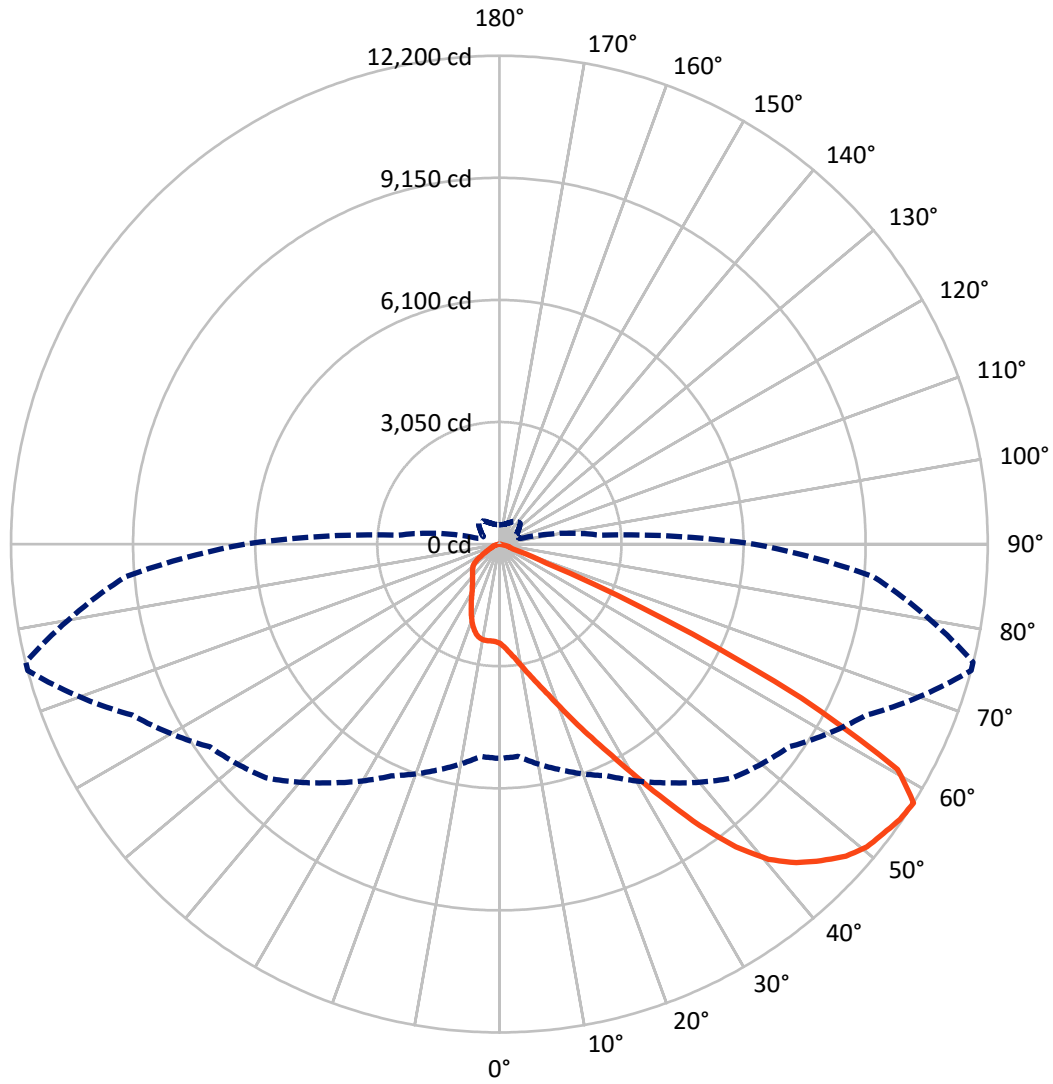
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 11.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2430.6	0.0	2430.6
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	12449.2	0.0	12449.2
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	14879.8	0.0	14879.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.5	1.7
10°-20°	820.4	5.5
20°-30°	1502.3	10.1
30°-40°	2492.4	16.8
40°-50°	3806.5	25.6
50°-60°	4277.2	28.7
60°-70°	1577.6	10.6
70°-80°	150.8	1.0
80°-90°	0.1	0.0
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°	14879.8	100.0
0°-180°	14879.8	100.0

**Coefficient of Utilization**



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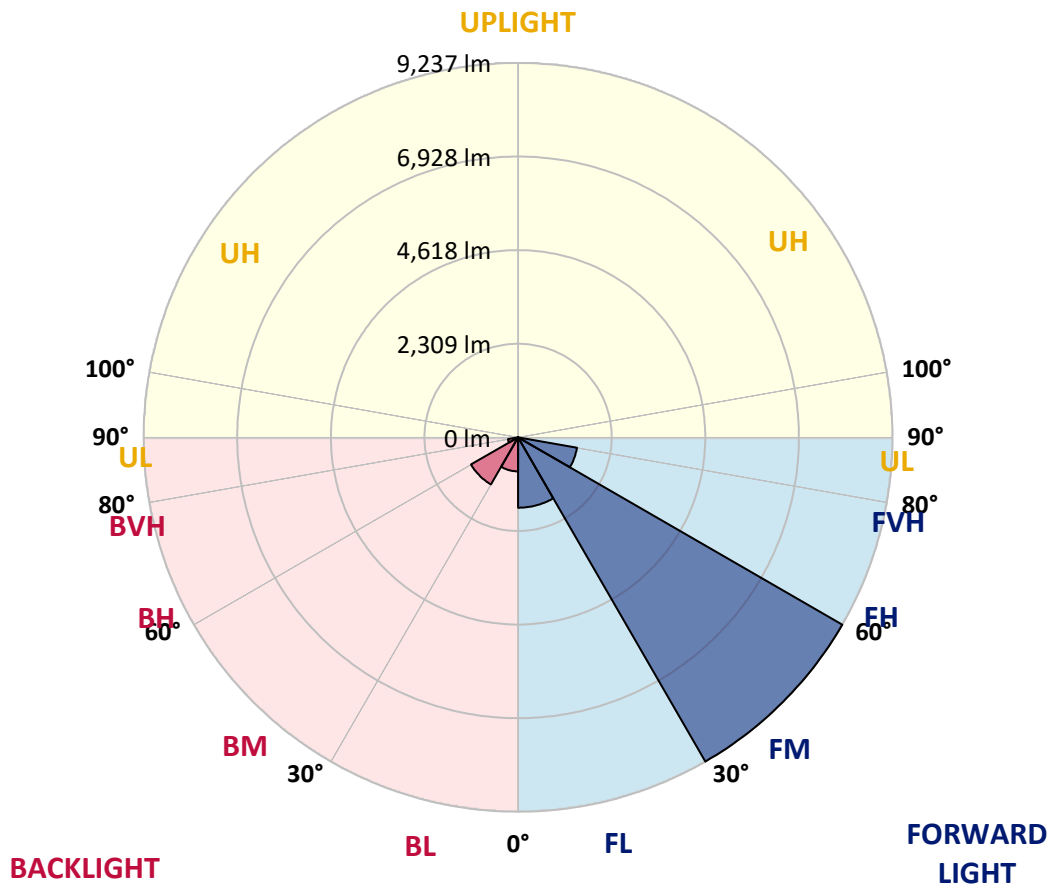
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1736.4	11.7			
FM (30°-60°)	9236.7	62.1			
FH (60°-80°)	1476.0	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	838.7	5.6	B2/1000		
BM (30°-60°)	1339.4	9.0	B2/2500		
BH (60°-80°)	252.4	1.7	B1/500		G1/500
BVH (80°-90°)	0.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2481.7	2481.7	2481.7	2481.7	2481.7	2481.7	2481.7	2481.7	2481.7	2481.7	2481.7
2.5°	2772.7	2801.4	2792.4	2774.5	2763.7	2726.0	2702.6	2634.4	2585.9	2580.5	2535.6
5°	3122.8	3117.4	3110.3	3088.7	3070.8	3011.5	2941.5	2826.5	2724.2	2711.6	2616.4
7.5°	3315.0	3318.6	3322.2	3318.6	3306.0	3261.1	3183.9	3049.2	2893.0	2882.2	2731.4
10°	3394.0	3401.2	3419.1	3453.3	3483.8	3480.2	3435.3	3297.0	3104.9	3086.9	2884.0
12.5°	3431.7	3440.7	3469.4	3534.1	3616.7	3681.3	3688.5	3564.6	3352.7	3324.0	3065.4
15°	3483.8	3492.8	3528.7	3613.1	3733.4	3860.9	3943.5	3864.5	3627.4	3596.9	3264.7
17.5°	3507.1	3519.7	3571.8	3683.1	3839.3	4035.1	4221.8	4214.7	3952.5	3929.1	3496.3
20°	3552.0	3561.0	3607.7	3728.0	3916.6	4198.5	4512.8	4625.9	4349.3	4315.2	3776.5
22.5°	3693.9	3697.5	3719.0	3794.4	3970.4	4317.0	4809.1	5105.4	4818.0	4773.1	4090.7
25°	3925.5	3923.7	3932.7	3945.3	4074.6	4437.3	5094.6	5645.9	5355.0	5306.5	4446.3
27.5°	4220.0	4220.0	4241.6	4205.7	4257.8	4586.4	5376.5	6267.2	5979.9	5911.6	4836.0
30°	4566.6	4564.8	4615.1	4557.6	4573.8	4821.6	5680.0	6944.2	6734.1	6649.7	5284.9
32.5°	5037.1	5026.3	5083.8	5004.8	4950.9	5177.2	6049.9	7651.7	7637.4	7508.1	5848.8
35°	5631.5	5613.6	5631.5	5554.3	5457.3	5674.6	6534.8	8357.5	8639.4	8502.9	6520.4
37.5°	6222.3	6279.8	6299.5	6166.6	6087.6	6304.9	7118.4	8989.6	9596.6	9454.7	7219.0
40°	6919.1	6901.1	6969.4	6820.3	6770.0	7010.7	7689.5	9460.1	10354.4	10219.7	7840.3
42.5°	7432.7	7465.0	7549.4	7466.8	7427.3	7653.5	8168.9	9734.8	10880.5	10747.6	8283.9
45°	8048.6	8072.0	8104.3	8036.0	7994.7	8217.4	8515.5	9855.1	11281.0	11137.3	8581.9
47.5°	8714.8	8732.8	8732.8	8592.7	8459.8	8551.4	8747.2	9923.4	11649.1	11510.8	8802.8
50°	9192.5	9201.5	9280.5	9181.7	8892.6	8750.7	8853.1	9989.8	11893.3	11764.0	8874.7
52.5°	8768.7	8757.9	9018.3	9223.0	9300.3	9018.3	9036.3	10086.8	12011.9	11900.5	8932.1
55°	7384.2	7366.2	7732.6	8230.0	8910.6	9271.5	9257.2	10144.3	12142.9	12074.7	9140.4
57.5°	5353.2	5322.6	5832.6	6385.7	7278.2	8256.9	8831.6	10111.9	12200.4	12195.0	9382.9
60°	3218.0	3192.9	3674.1	4256.0	4945.5	5929.6	6883.2	9057.8	11431.8	11442.6	8752.5
62.5°	1980.7	2004.1	2438.6	2734.9	2991.7	3288.0	3839.3	6093.0	8468.8	8538.8	6150.5
65°	1332.5	1350.4	1752.7	2126.2	2126.2	1738.3	1492.3	2912.7	4518.1	4399.6	2909.1
67.5°	894.3	914.0	1231.9	1668.3	1731.1	1212.1	605.2	869.1	1258.8	1221.1	720.1
70°	526.2	547.7	820.7	1143.9	1260.6	844.0	404.0	368.1	357.4	346.6	280.1
72.5°	235.2	244.2	418.4	581.8	531.5	355.6	285.5	294.5	278.3	273.0	228.1
75°	71.8	75.4	107.7	125.7	127.5	127.5	172.4	231.7	219.1	220.9	176.0
77.5°	18.0	18.0	28.7	26.9	14.4	12.6	32.3	52.1	53.9	48.5	35.9
80°	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2481.7	2481.7	2481.7	2481.7	2481.7	2481.7	2481.7	2481.7	2481.7	2481.7	2481.7
2.5°	2515.9	2469.2	2438.6	2395.5	2365.0	2332.7	2304.0	2280.6	2268.0	2264.5	2266.3
5°	2573.3	2499.7	2427.9	2345.3	2287.8	2233.9	2190.8	2156.7	2140.5	2135.2	2135.2
7.5°	2661.3	2559.0	2431.5	2302.2	2205.2	2120.8	2070.5	2032.8	2018.4	2014.8	2004.1
10°	2776.2	2636.2	2426.1	2224.9	2088.5	2000.5	1964.6	1953.8	1959.2	1961.0	1959.2
12.5°	2914.5	2717.0	2392.0	2111.8	1964.6	1910.7	1914.3	1943.0	1975.3	1991.5	1995.1
15°	3061.8	2790.6	2314.7	1977.1	1858.6	1856.8	1908.9	1975.3	2038.2	2065.1	2072.3
17.5°	3227.0	2849.9	2196.2	1833.5	1767.0	1819.1	1912.5	2014.8	2099.2	2144.1	2153.1
20°	3408.4	2898.4	2045.4	1698.8	1686.2	1779.6	1908.9	2034.6	2138.8	2189.0	2198.0
22.5°	3596.9	2932.5	1871.2	1574.9	1612.6	1734.7	1874.8	1996.9	2095.7	2153.1	2160.3
25°	3812.4	2936.1	1693.4	1470.7	1544.4	1673.7	1792.2	1892.7	1975.3	2025.6	2031.0
27.5°	4001.0	2893.0	1535.4	1386.3	1481.5	1598.2	1677.2	1732.9	1790.4	1819.1	1820.9
30°	4218.2	2817.6	1386.3	1318.1	1416.9	1504.8	1544.4	1556.9	1562.3	1567.7	1560.5
32.5°	4476.8	2726.0	1275.0	1251.6	1343.2	1402.5	1413.3	1388.1	1357.6	1314.5	1303.7
35°	4794.7	2643.4	1183.4	1187.0	1262.4	1298.3	1289.4	1235.5	1176.2	1124.1	1115.2
37.5°	5139.5	2573.3	1113.4	1124.1	1174.4	1199.6	1172.6	1113.4	1086.4	1041.5	1043.3
40°	5444.8	2515.9	1050.5	1061.3	1084.6	1108.0	1064.9	1025.4	1075.7	1072.1	1075.7
42.5°	5662.0	2467.4	996.6	991.3	1007.4	1023.6	991.3	971.5	1055.9	1032.6	1045.1
45°	5789.5	2422.5	951.8	919.4	944.6	973.3	951.8	926.6	955.3	847.6	838.6
47.5°	5875.7	2397.3	912.2	849.4	894.3	944.6	899.7	838.6	797.3	703.9	696.8
50°	5884.7	2384.8	865.6	777.6	835.0	888.9	836.8	752.4	693.2	651.9	646.5
52.5°	5931.4	2409.9	800.9	686.0	748.8	835.0	799.1	714.7	633.9	598.0	590.8
55°	6139.7	2515.9	693.2	560.3	651.9	793.7	768.6	637.5	560.3	538.7	533.3
57.5°	6355.2	2537.4	545.9	443.6	567.5	734.5	702.1	587.2	511.8	486.7	481.3
60°	5811.1	2090.3	409.4	366.3	501.0	678.8	650.1	556.7	468.7	438.2	432.8
62.5°	3817.8	1129.5	325.0	310.7	422.0	574.6	592.6	502.8	418.4	386.1	384.3
65°	1759.8	524.4	249.6	246.0	330.4	457.9	510.0	440.0	353.8	325.0	325.0
67.5°	479.5	260.4	195.7	181.4	224.5	307.1	371.7	328.6	251.4	217.3	215.5
70°	238.8	210.1	176.0	156.2	161.6	190.4	219.1	183.2	127.5	104.2	102.4
72.5°	195.7	172.4	149.0	132.9	122.1	116.7	113.1	91.6	59.3	44.9	43.1
75°	145.5	123.9	105.9	86.2	73.6	68.2	61.1	44.9	25.1	14.4	12.6
77.5°	32.3	30.5	28.7	21.5	19.8	16.2	12.6	9.0	3.6	0.0	0.0
80°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	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)