

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: P640303

Luminaire Tested: GWS-SA5D-750-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640303  
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-SA5D-750-U-T2-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

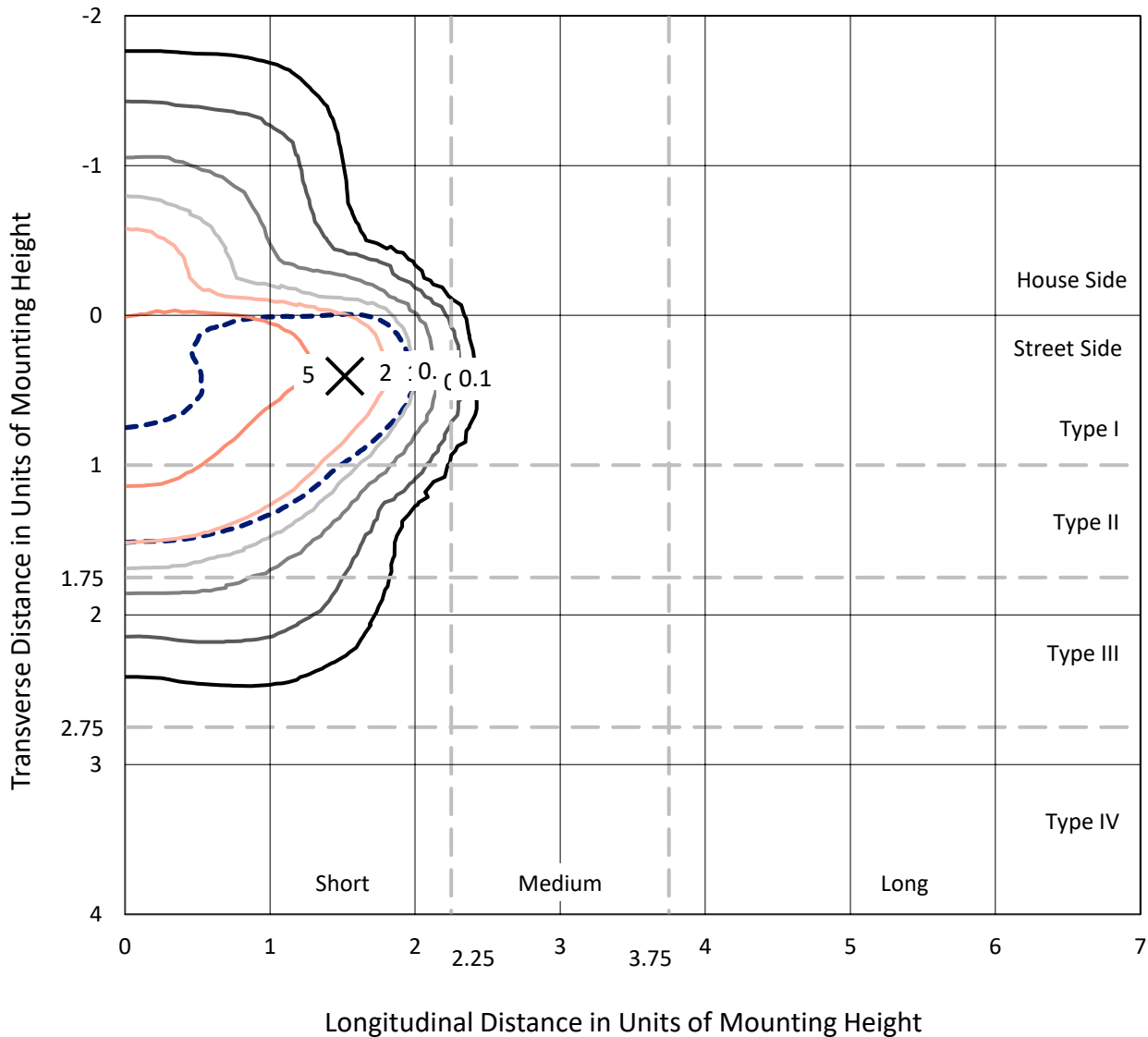
Lumens per Lamp: N/A  
Luminaire Lumens: 18253.2 lumens  
Efficiency: N/A  
Efficacy: 89.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

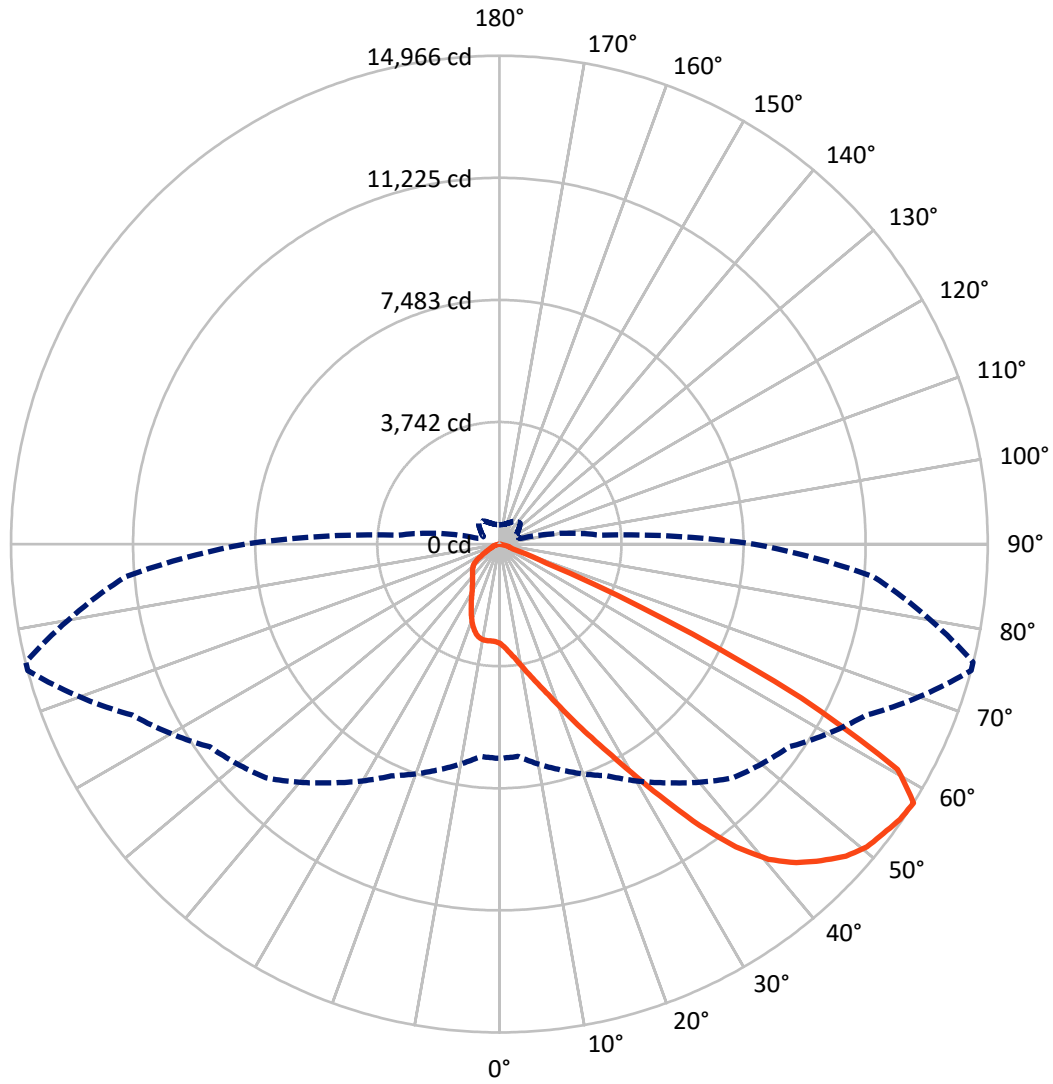
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	2981.6	0.0	2981.6
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	15271.6	0.0	15271.6
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	18253.2	0.0	18253.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	309.8	1.7
10°-20°	1006.3	5.5
20°-30°	1842.8	10.1
30°-40°	3057.4	16.8
40°-50°	4669.4	25.6
50°-60°	5246.9	28.7
60°-70°	1935.3	10.6
70°-80°	185.0	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°	18253.2	100.0
0°-180°	18253.2	100.0

**Coefficient of Utilization**



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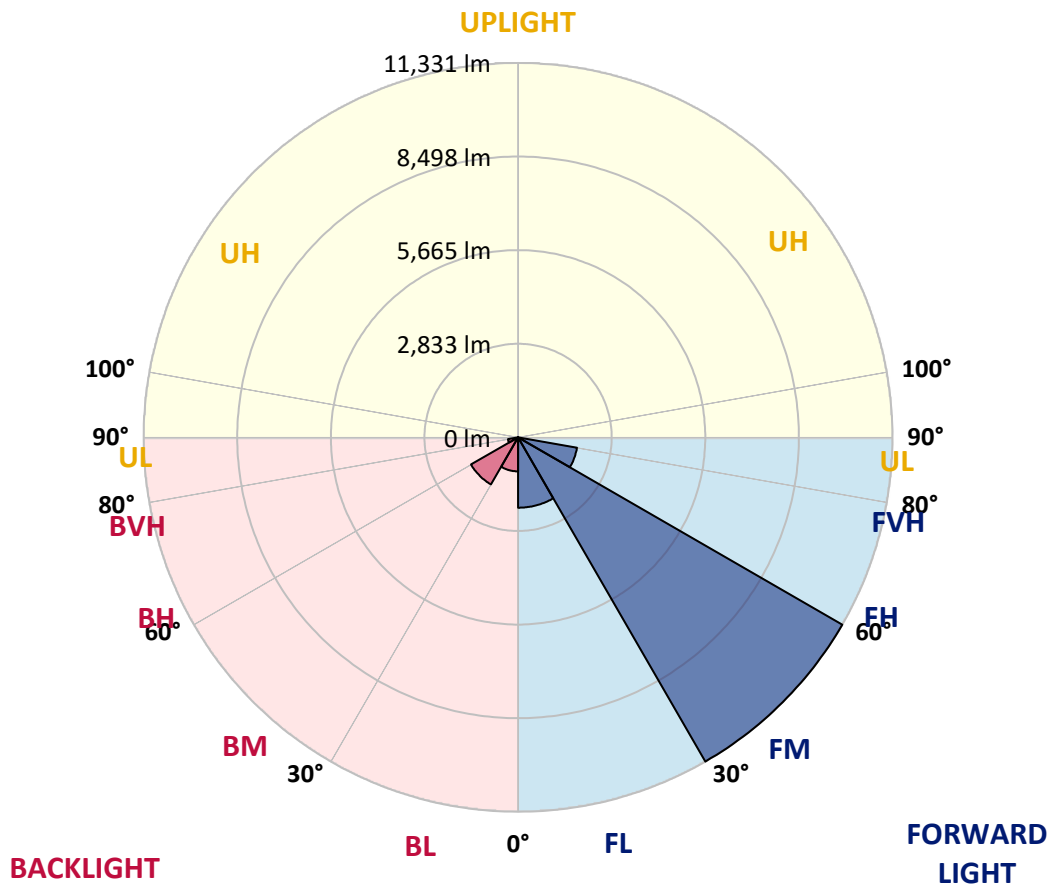
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2130.1	11.7			
FM (30°-60°)	11330.7	62.1			
FH (60°-80°)	1810.7	9.9			G2/5000
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1028.9	5.6	B3/2500		
BM (30°-60°)	1643.1	9.0	B2/2500		
BH (60°-80°)	309.6	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: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3044.4	3044.4	3044.4	3044.4	3044.4	3044.4	3044.4	3044.4	3044.4	3044.4	3044.4
2.5°	3401.2	3436.5	3425.5	3403.4	3390.2	3344.0	3315.3	3231.6	3172.1	3165.5	3110.5
5°	3830.8	3824.2	3815.4	3789.0	3766.9	3694.2	3608.3	3467.3	3341.8	3326.3	3209.6
7.5°	4066.5	4070.9	4075.3	4070.9	4055.5	4000.4	3905.7	3740.5	3548.8	3535.6	3350.6
10°	4163.4	4172.3	4194.3	4236.1	4273.6	4269.2	4214.1	4044.5	3808.8	3786.8	3537.8
12.5°	4209.7	4220.7	4256.0	4335.3	4436.6	4515.9	4524.7	4372.7	4112.8	4077.5	3760.3
15°	4273.6	4284.6	4328.7	4432.2	4579.8	4736.2	4837.5	4740.6	4449.8	4412.4	4004.8
17.5°	4302.2	4317.6	4381.5	4518.1	4709.8	4949.9	5179.0	5170.2	4848.5	4819.9	4289.0
20°	4357.3	4368.3	4425.6	4573.2	4804.5	5150.3	5535.8	5674.6	5335.4	5293.5	4632.7
22.5°	4531.3	4535.7	4562.2	4654.7	4870.6	5295.7	5899.3	6262.8	5910.3	5855.3	5018.2
25°	4815.5	4813.3	4824.3	4839.7	4998.3	5443.3	6249.6	6925.9	6569.0	6509.5	5454.3
27.5°	5176.8	5176.8	5203.2	5159.1	5223.0	5626.2	6595.4	7688.0	7335.6	7251.9	5932.4
30°	5601.9	5599.7	5661.4	5590.9	5610.7	5914.7	6967.7	8518.5	8260.8	8157.3	6483.1
32.5°	6179.1	6165.9	6236.4	6139.4	6073.3	6350.9	7421.5	9386.5	9368.8	9210.2	7174.8
35°	6908.2	6886.2	6908.2	6813.5	6694.6	6961.1	8016.3	10252.2	10598.1	10430.6	7998.7
37.5°	7633.0	7703.5	7727.7	7564.7	7467.8	7734.3	8732.2	11027.6	11772.2	11598.2	8855.6
40°	8487.7	8465.7	8549.4	8366.5	8304.9	8600.0	9432.7	11604.8	12701.8	12536.6	9617.8
42.5°	9117.7	9157.4	9260.9	9159.6	9111.1	9388.7	10020.9	11941.8	13347.2	13184.2	10161.9
45°	9873.3	9901.9	9941.6	9857.9	9807.2	10080.4	10446.1	12089.4	13838.5	13662.3	10527.6
47.5°	10690.6	10712.6	10712.6	10540.8	10377.8	10490.1	10730.2	12173.1	14290.1	14120.5	10798.5
50°	11276.5	11287.6	11384.5	11263.3	10908.7	10734.6	10860.2	12254.6	14589.7	14431.1	10886.6
52.5°	10756.7	10743.4	11062.9	11314.0	11408.7	11062.9	11084.9	12373.6	14735.1	14598.5	10957.1
55°	9058.2	9036.2	9485.6	10095.8	10930.7	11373.5	11355.8	12444.1	14895.9	14812.2	11212.7
57.5°	6566.8	6529.3	7155.0	7833.4	8928.3	10128.8	10833.8	12404.4	14966.4	14959.8	11510.0
60°	3947.6	3916.7	4507.1	5220.8	6066.7	7273.9	8443.6	11111.3	14023.5	14036.7	10736.8
62.5°	2429.8	2458.4	2991.5	3355.0	3670.0	4033.5	4709.8	7474.4	10388.8	10474.7	7544.9
65°	1634.5	1656.6	2150.0	2608.2	2608.2	2132.4	1830.6	3573.1	5542.4	5397.1	3568.7
67.5°	1097.0	1121.3	1511.2	2046.5	2123.6	1486.9	742.4	1066.2	1544.2	1498.0	883.4
70°	645.4	671.9	1006.7	1403.2	1546.4	1035.4	495.6	451.6	438.4	425.2	343.6
72.5°	288.6	299.6	513.3	713.7	652.1	436.2	350.3	361.3	341.4	334.8	279.8
75°	88.1	92.5	132.2	154.2	156.4	156.4	211.5	284.2	268.8	271.0	215.9
77.5°	22.0	22.0	35.2	33.0	17.6	15.4	39.7	63.9	66.1	59.5	44.1
80°	0.0	0.0	0.0	0.0	0.0	2.2	2.2	2.2	2.2	2.2	2.2
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°	3044.4	3044.4	3044.4	3044.4	3044.4	3044.4	3044.4	3044.4	3044.4	3044.4	3044.4
2.5°	3086.2	3029.0	2991.5	2938.6	2901.2	2861.5	2826.3	2797.7	2782.2	2777.8	2780.0
5°	3156.7	3066.4	2978.3	2877.0	2806.5	2740.4	2687.5	2645.7	2625.8	2619.2	2619.2
7.5°	3264.7	3139.1	2982.7	2824.1	2705.1	2601.6	2539.9	2493.7	2476.0	2471.6	2458.4
10°	3405.7	3233.8	2976.1	2729.4	2561.9	2454.0	2410.0	2396.7	2403.3	2405.5	2403.3
12.5°	3575.3	3333.0	2934.2	2590.6	2410.0	2343.9	2348.3	2383.5	2423.2	2443.0	2447.4
15°	3755.9	3423.3	2839.5	2425.4	2280.0	2277.8	2341.7	2423.2	2500.3	2533.3	2542.1
17.5°	3958.6	3496.0	2694.1	2249.1	2167.6	2231.5	2346.1	2471.6	2575.2	2630.2	2641.3
20°	4181.1	3555.4	2509.1	2083.9	2068.5	2183.1	2341.7	2495.9	2623.6	2685.3	2696.3
22.5°	4412.4	3597.3	2295.4	1931.9	1978.2	2128.0	2299.8	2449.6	2570.8	2641.3	2650.1
25°	4676.7	3601.7	2077.3	1804.2	1894.5	2053.1	2198.5	2321.8	2423.2	2484.8	2491.5
27.5°	4908.0	3548.8	1883.5	1700.6	1817.4	1960.6	2057.5	2125.8	2196.3	2231.5	2233.7
30°	5174.6	3456.3	1700.6	1616.9	1738.1	1846.0	1894.5	1909.9	1916.5	1923.1	1914.3
32.5°	5491.8	3344.0	1564.0	1535.4	1647.8	1720.4	1733.7	1702.8	1665.4	1612.5	1599.3
35°	5881.7	3242.6	1451.7	1456.1	1548.6	1592.7	1581.7	1515.6	1442.9	1379.0	1368.0
37.5°	6304.6	3156.7	1365.8	1379.0	1440.7	1471.5	1438.5	1365.8	1332.7	1277.7	1279.9
40°	6679.1	3086.2	1288.7	1301.9	1330.5	1359.2	1306.3	1257.8	1319.5	1315.1	1319.5
42.5°	6945.7	3026.8	1222.6	1216.0	1235.8	1255.6	1216.0	1191.8	1295.3	1266.7	1282.1
45°	7102.1	2971.7	1167.5	1127.9	1158.7	1194.0	1167.5	1136.7	1171.9	1039.8	1028.7
47.5°	7207.8	2940.8	1119.1	1042.0	1097.0	1158.7	1103.6	1028.7	978.1	863.5	854.7
50°	7218.8	2925.4	1061.8	953.8	1024.3	1090.4	1026.5	923.0	850.3	799.6	793.0
52.5°	7276.1	2956.3	982.5	841.5	918.6	1024.3	980.3	876.7	777.6	733.6	724.7
55°	7531.6	3086.2	850.3	687.3	799.6	973.7	942.8	782.0	687.3	660.9	654.3
57.5°	7796.0	3112.7	669.7	544.1	696.1	901.0	861.3	720.3	627.8	597.0	590.4
60°	7128.5	2564.2	502.3	449.4	614.6	832.7	797.4	682.9	575.0	537.5	530.9
62.5°	4683.3	1385.6	398.7	381.1	517.7	704.9	727.0	616.8	513.3	473.6	471.4
65°	2158.8	643.2	306.2	301.8	405.3	561.7	625.6	539.7	434.0	398.7	398.7
67.5°	588.2	319.4	240.1	222.5	275.4	376.7	456.0	403.1	308.4	266.5	264.3
70°	293.0	257.7	215.9	191.7	198.3	233.5	268.8	224.7	156.4	127.8	125.6
72.5°	240.1	211.5	182.8	163.0	149.8	143.2	138.8	112.3	72.7	55.1	52.9
75°	178.4	152.0	130.0	105.7	90.3	83.7	74.9	55.1	30.8	17.6	15.4
77.5°	39.7	37.4	35.2	26.4	24.2	19.8	15.4	11.0	4.4	0.0	0.0
80°	2.2	2.2	2.2	2.2	2.2	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)