

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: P640358

Luminaire Tested: GWS-SA5D-760-U-T2-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640358  
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-760-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) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

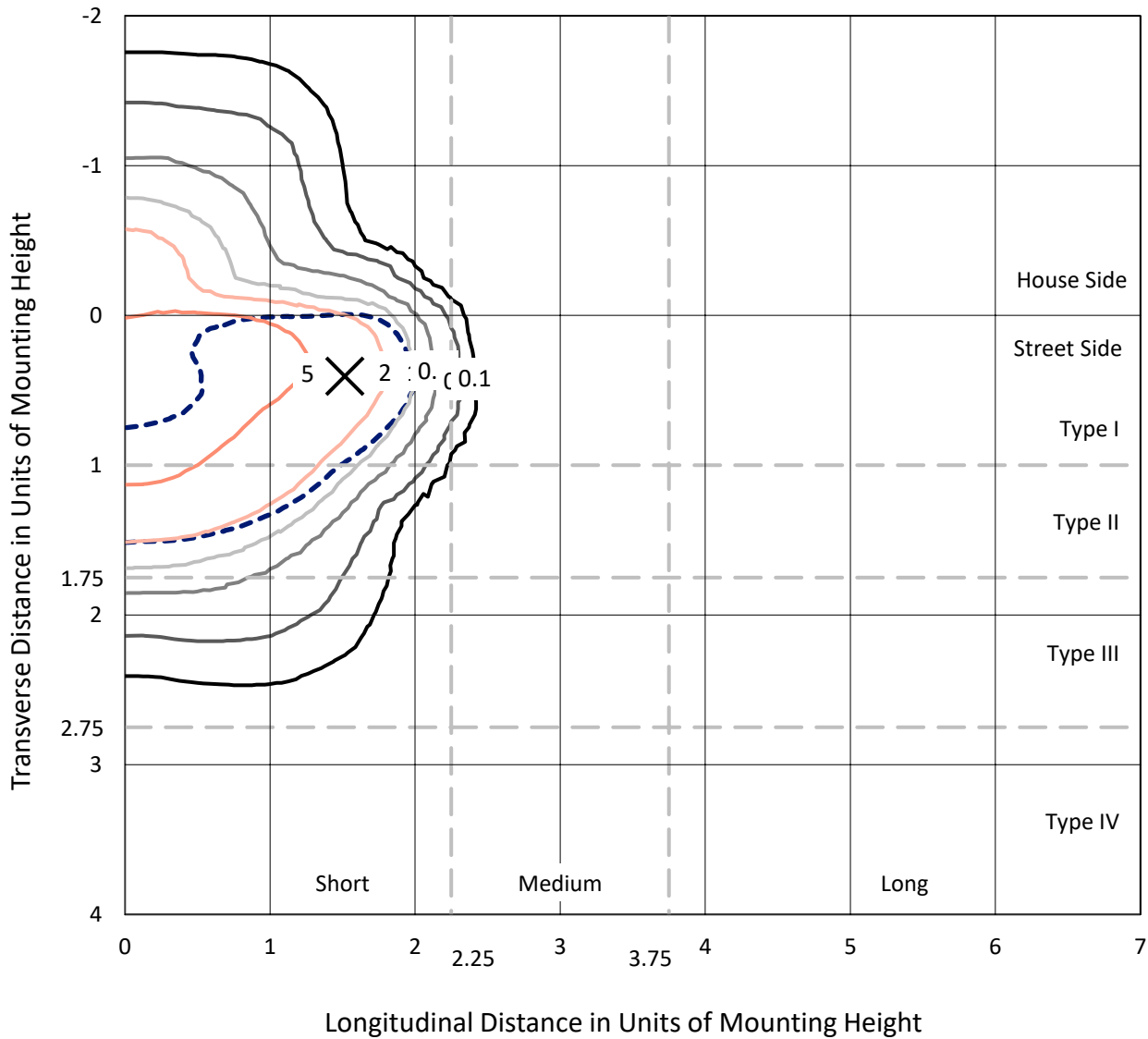
Lumens per Lamp: N/A  
Luminaire Lumens: 18003 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

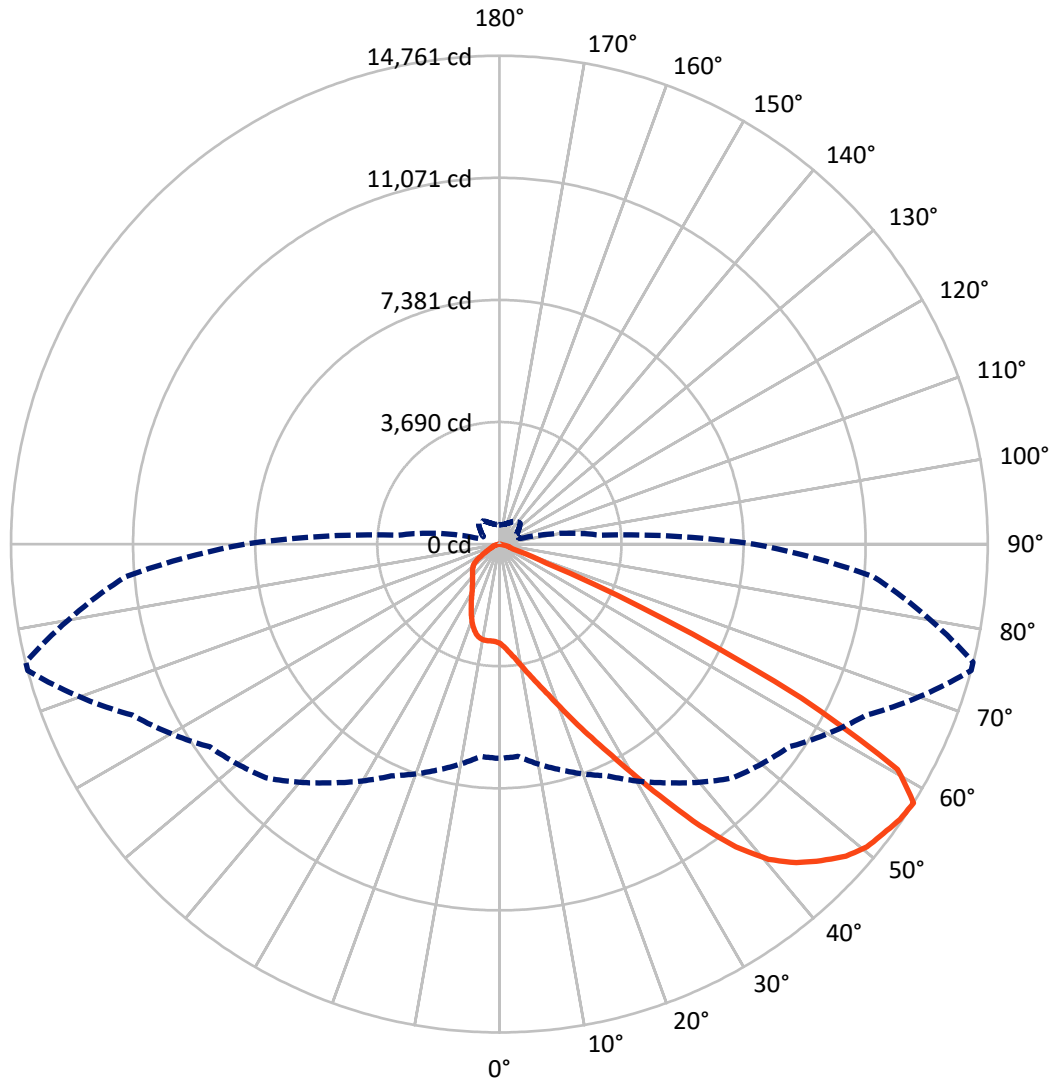
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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	2940.7	0.0	2940.7
	% Fixture	16.3	0.0	16.3
<b>Street Side</b>	Lumens	15062.3	0.0	15062.3
	% Fixture	83.7	0.0	83.7
<b>Total</b>	Lumens	18003.0	0.0	18003.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	305.5	1.7
10°-20°	992.5	5.5
20°-30°	1817.6	10.1
30°-40°	3015.5	16.8
40°-50°	4605.4	25.6
50°-60°	5175.0	28.7
60°-70°	1908.8	10.6
70°-80°	182.5	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°	18003.0	100.0
0°-180°	18003.0	100.0

**Coefficient of Utilization**



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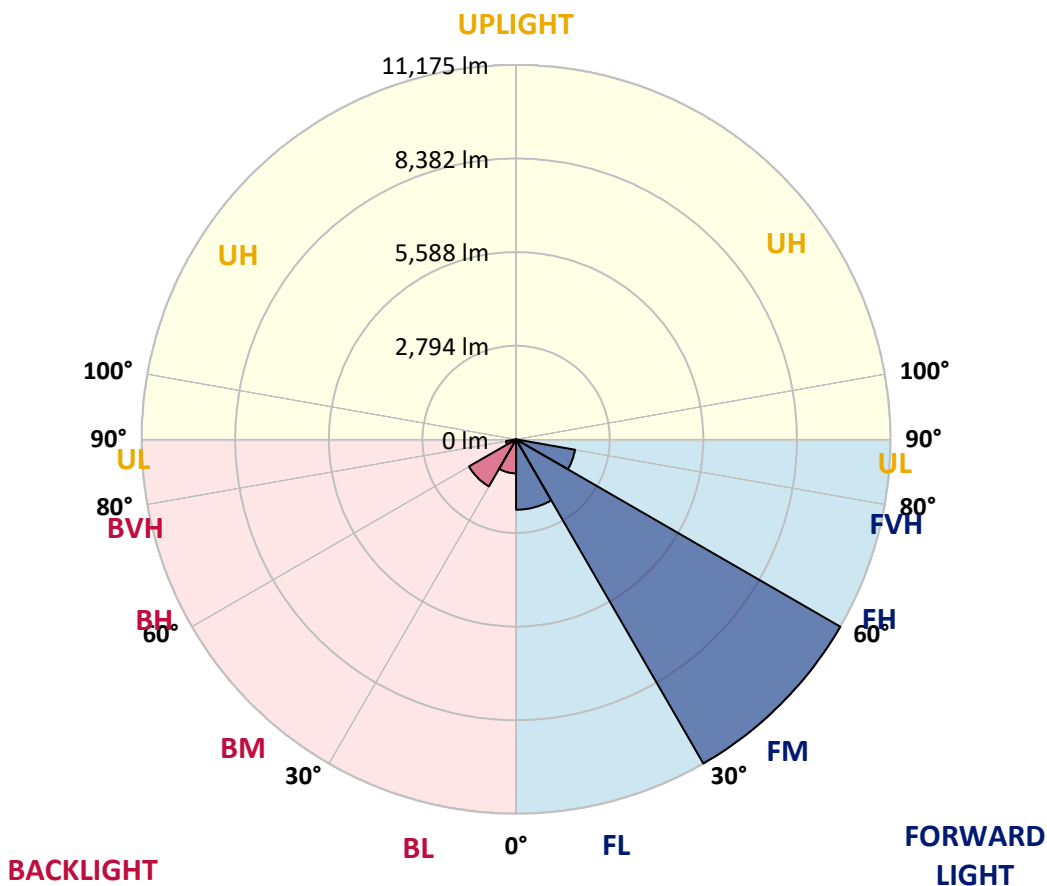
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2100.9	11.7			
FM (30°-60°)	11175.4	62.1			
FH (60°-80°)	1785.8	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	1014.7	5.6	B3/2500		
BM (30°-60°)	1620.5	9.0	B2/2500		
BH (60°-80°)	305.4	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: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6
2.5°	3354.6	3389.4	3378.5	3356.8	3343.8	3298.1	3269.9	3187.3	3128.7	3122.1	3067.8
5°	3778.3	3771.8	3763.1	3737.0	3715.3	3643.6	3558.9	3419.8	3296.0	3280.8	3165.6
7.5°	4010.8	4015.1	4019.5	4015.1	3999.9	3945.6	3852.2	3689.2	3500.2	3487.2	3304.7
10°	4106.4	4115.1	4136.8	4178.1	4215.0	4210.7	4156.3	3989.0	3756.6	3734.8	3489.3
12.5°	4152.0	4162.9	4197.6	4275.8	4375.8	4454.0	4462.7	4312.8	4056.4	4021.6	3708.8
15°	4215.0	4225.9	4269.3	4371.4	4517.0	4671.3	4771.2	4675.6	4388.8	4351.9	3949.9
17.5°	4243.3	4258.5	4321.5	4456.2	4645.2	4882.0	5108.0	5099.3	4782.1	4753.8	4230.2
20°	4297.6	4308.4	4364.9	4510.5	4738.6	5079.7	5460.0	5596.8	5262.2	5221.0	4569.2
22.5°	4469.2	4473.6	4499.6	4590.9	4803.8	5223.1	5818.4	6176.9	5829.3	5775.0	4949.4
25°	4749.5	4747.3	4758.2	4773.4	4929.8	5368.7	6163.9	6830.9	6478.9	6420.3	5379.6
27.5°	5105.8	5105.8	5131.9	5088.4	5151.4	5549.0	6505.0	7582.7	7235.0	7152.5	5851.0
30°	5525.1	5523.0	5583.8	5514.3	5533.8	5833.7	6872.2	8401.8	8147.6	8045.5	6394.2
32.5°	6094.4	6081.3	6150.9	6055.3	5990.1	6263.8	7319.8	9257.8	9240.4	9084.0	7076.4
35°	6813.5	6791.8	6813.5	6720.1	6602.8	6865.7	7906.4	10111.7	10452.8	10287.7	7889.0
37.5°	7528.4	7597.9	7621.8	7461.0	7365.4	7628.3	8612.5	10876.5	11610.8	11439.2	8734.2
40°	8371.4	8349.6	8432.2	8251.9	8191.0	8482.2	9303.4	11445.7	12527.7	12364.7	9485.9
42.5°	8992.7	9031.8	9134.0	9034.0	8986.2	9260.0	9883.5	11778.1	13164.3	13003.5	10022.6
45°	9738.0	9766.2	9805.3	9722.8	9672.8	9942.2	10302.9	11923.7	13648.8	13475.0	10383.3
47.5°	10544.0	10565.8	10565.8	10396.3	10235.5	10346.3	10583.1	12006.3	14094.2	13926.9	10650.5
50°	11122.0	11132.8	11228.4	11108.9	10759.1	10587.5	10711.3	12086.6	14389.7	14233.3	10737.4
52.5°	10609.2	10596.2	10911.2	11158.9	11252.3	10911.2	10932.9	12204.0	14533.1	14398.4	10806.9
55°	8934.1	8912.4	9355.6	9957.4	10780.9	11217.6	11200.2	12273.5	14691.7	14609.1	11059.0
57.5°	6476.8	6439.8	7056.9	7726.1	8805.9	9990.0	10685.3	12234.4	14761.2	14754.7	11352.3
60°	3893.5	3863.0	4445.3	5149.3	5983.6	7174.2	8327.9	10959.0	13831.3	13844.3	10589.7
62.5°	2396.5	2424.7	2950.5	3309.0	3619.7	3978.2	4645.2	7371.9	10246.4	10331.1	7441.4
65°	1612.1	1633.9	2120.5	2572.5	2572.5	2103.2	1805.5	3524.1	5466.5	5323.1	3519.7
67.5°	1082.0	1105.9	1490.5	2018.4	2094.5	1466.6	732.2	1051.6	1523.1	1477.4	871.2
70°	636.6	662.7	992.9	1384.0	1525.2	1021.2	488.9	445.4	432.4	419.3	338.9
72.5°	284.6	295.5	506.2	703.9	643.1	430.2	345.5	356.3	336.8	330.2	275.9
75°	86.9	91.3	130.4	152.1	154.3	154.3	208.6	280.3	265.1	267.2	212.9
77.5°	21.7	21.7	34.8	32.6	17.4	15.2	39.1	63.0	65.2	58.7	43.5
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°	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6	3002.6
2.5°	3043.9	2987.4	2950.5	2898.4	2861.4	2822.3	2787.6	2759.3	2744.1	2739.8	2741.9
5°	3113.5	3024.4	2937.5	2837.5	2768.0	2702.8	2650.7	2609.4	2589.8	2583.3	2583.3
7.5°	3219.9	3096.1	2941.8	2785.4	2668.1	2565.9	2505.1	2459.5	2442.1	2437.8	2424.7
10°	3359.0	3189.5	2935.3	2692.0	2526.8	2420.4	2376.9	2363.9	2370.4	2372.6	2370.4
12.5°	3526.3	3287.3	2894.0	2555.1	2376.9	2311.7	2316.1	2350.8	2390.0	2409.5	2413.9
15°	3704.4	3376.4	2800.6	2392.1	2248.7	2246.6	2309.6	2390.0	2466.0	2498.6	2507.3
17.5°	3904.3	3448.1	2657.2	2218.3	2137.9	2200.9	2313.9	2437.8	2539.9	2594.2	2605.0
20°	4123.8	3506.7	2474.7	2055.4	2040.2	2153.1	2309.6	2461.7	2587.7	2648.5	2659.4
22.5°	4351.9	3548.0	2263.9	1905.4	1951.1	2098.8	2268.3	2416.0	2535.5	2605.0	2613.7
25°	4612.6	3552.3	2048.8	1779.4	1868.5	2024.9	2168.3	2290.0	2390.0	2450.8	2457.3
27.5°	4840.7	3500.2	1857.6	1677.3	1792.5	1933.7	2029.3	2096.6	2166.2	2200.9	2203.1
30°	5103.6	3408.9	1677.3	1594.8	1714.2	1820.7	1868.5	1883.7	1890.2	1896.8	1888.1
32.5°	5416.5	3298.1	1542.6	1514.4	1625.2	1696.9	1709.9	1679.5	1642.5	1590.4	1577.4
35°	5801.1	3198.2	1431.8	1436.1	1527.4	1570.9	1560.0	1494.8	1423.1	1360.1	1349.2
37.5°	6218.2	3113.5	1347.1	1360.1	1420.9	1451.4	1418.8	1347.1	1314.5	1260.2	1262.3
40°	6587.6	3043.9	1271.0	1284.1	1312.3	1340.5	1288.4	1240.6	1301.4	1297.1	1301.4
42.5°	6850.5	2985.3	1205.8	1199.3	1218.9	1238.4	1199.3	1175.4	1277.5	1249.3	1264.5
45°	7004.7	2931.0	1151.5	1112.4	1142.8	1177.6	1151.5	1121.1	1155.9	1025.5	1014.6
47.5°	7109.0	2900.5	1103.7	1027.7	1082.0	1142.8	1088.5	1014.6	964.7	851.7	843.0
50°	7119.9	2885.3	1047.2	940.8	1010.3	1075.5	1012.5	910.4	838.7	788.7	782.2
52.5°	7176.4	2915.7	969.0	830.0	906.0	1010.3	966.8	864.7	767.0	723.5	714.8
55°	7428.4	3043.9	838.7	677.9	788.7	960.3	929.9	771.3	677.9	651.8	645.3
57.5°	7689.1	3070.0	660.5	536.7	686.6	888.6	849.5	710.5	619.2	588.8	582.3
60°	7030.8	2529.0	495.4	443.2	606.2	821.3	786.5	673.5	567.1	530.1	523.6
62.5°	4619.1	1366.6	393.3	375.9	510.6	695.3	717.0	608.4	506.2	467.1	465.0
65°	2129.2	634.4	302.0	297.7	399.8	554.0	617.0	532.3	428.0	393.3	393.3
67.5°	580.1	315.0	236.8	219.4	271.6	371.5	449.7	397.6	304.2	262.9	260.7
70°	289.0	254.2	212.9	189.0	195.5	230.3	265.1	221.6	154.3	126.0	123.8
72.5°	236.8	208.6	180.3	160.8	147.7	141.2	136.9	110.8	71.7	54.3	52.1
75°	176.0	149.9	128.2	104.3	89.1	82.6	73.9	54.3	30.4	17.4	15.2
77.5°	39.1	36.9	34.8	26.1	23.9	19.6	15.2	10.9	4.3	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)