

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: P640318

Luminaire Tested: GWS-SA5D-750-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640318
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-750-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31239.3 lumens
Efficiency: N/A
Efficacy: 152.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

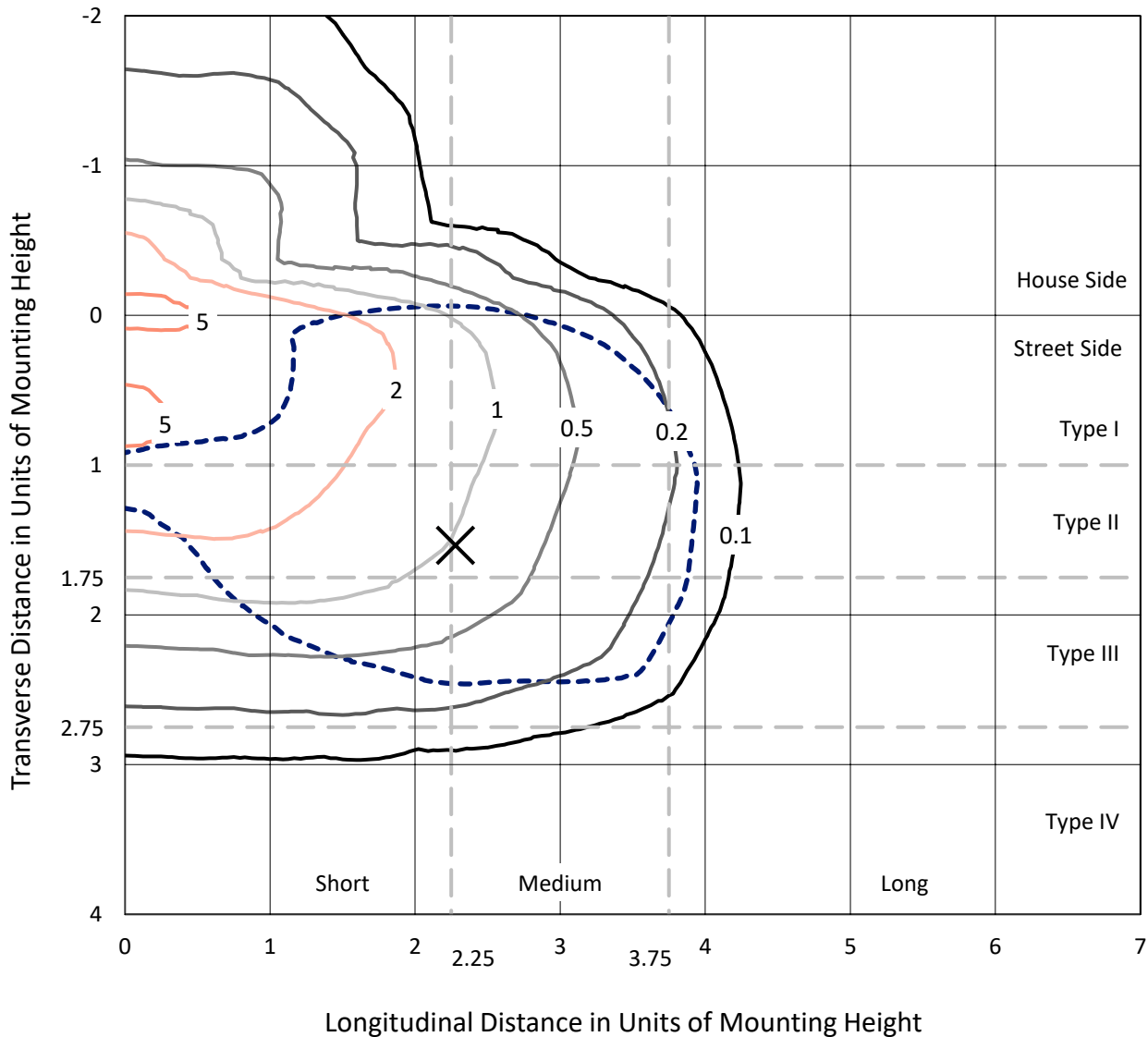
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

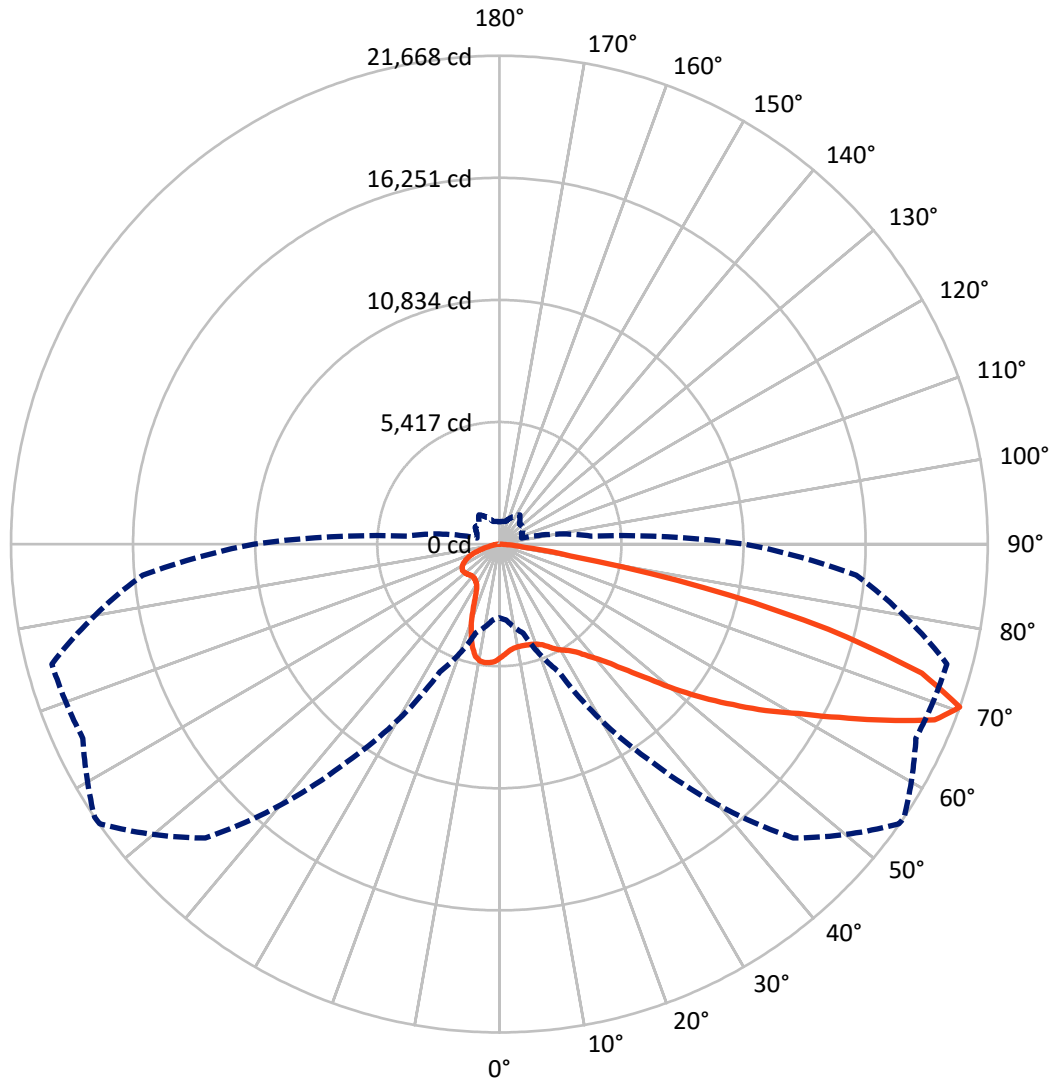
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6005.8	0.0	6005.8
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	25233.5	0.0	25233.5
	% Fixture	80.8	0.0	80.8
Total	Lumens	31239.3	0.0	31239.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.6	1.5
10°-20°	1264.3	4.0
20°-30°	2090.3	6.7
30°-40°	3125.3	10.0
40°-50°	4650.8	14.9
50°-60°	6612.1	21.2
60°-70°	8189.4	26.2
70°-80°	4521.9	14.5
80°-90°	318.5	1.0
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°	31239.3	100.0
0°-180°	31239.3	100.0

Coefficient of Utilization



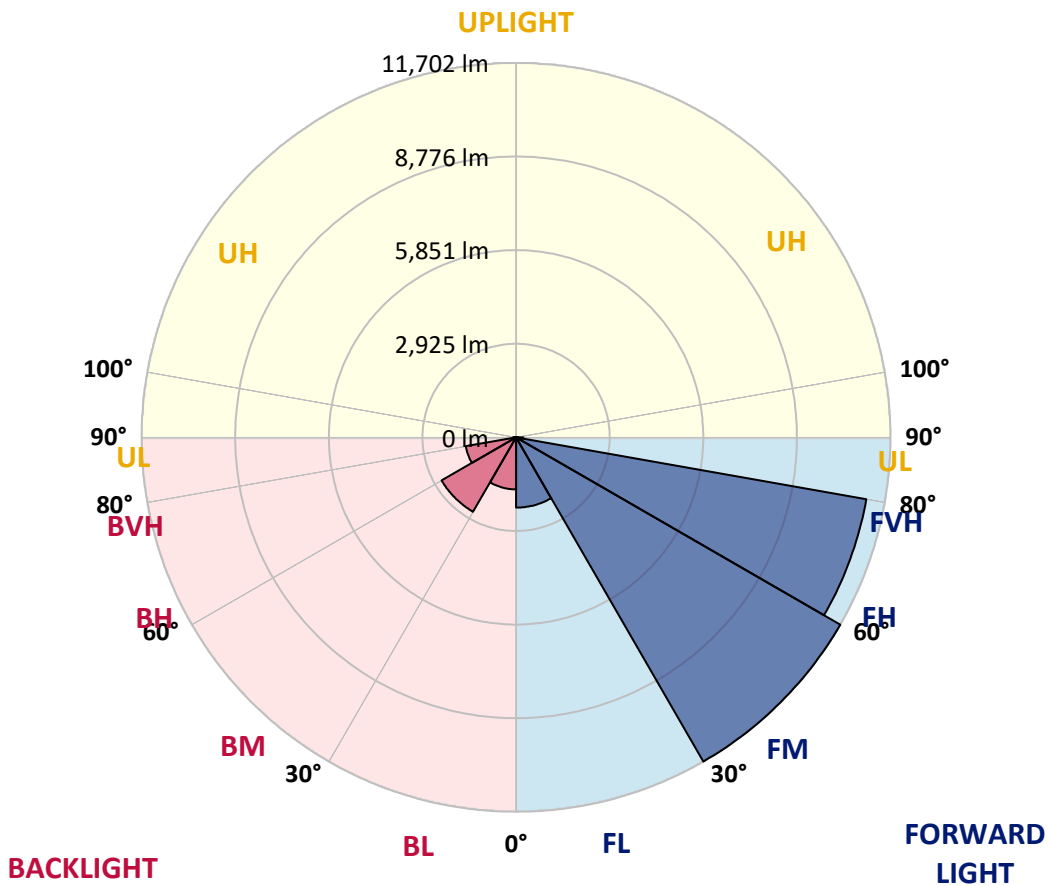
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2195.5	7.0			
FM (30°-60°)	11701.8	37.5			
FH (60°-80°)	11115.0	35.6			G4/12000
FVH (80°-90°)	221.3	0.7			G2/225
BL (0°-30°)	1625.8	5.2	B3/2500		
BM (30°-60°)	2686.5	8.6	B3/5000		
BH (60°-80°)	1596.3	5.1	B3/2500		G3/2500
BVH (80°-90°)	97.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5
2.5°	4718.7	4692.2	4723.1	4738.5	4778.2	4835.4	4886.1	4888.3	4914.7	4978.6	5040.3
5°	4505.0	4491.8	4500.6	4546.8	4588.7	4661.4	4738.5	4745.1	4820.0	4945.6	5068.9
7.5°	4339.8	4322.1	4355.2	4414.7	4467.5	4549.0	4650.4	4659.2	4764.9	4954.4	5143.8
10°	4101.9	4088.6	4150.3	4229.6	4344.2	4478.6	4612.9	4623.9	4762.7	5011.7	5276.0
12.5°	3998.3	3998.3	4024.8	4099.7	4225.2	4403.7	4606.3	4623.9	4798.0	5099.8	5445.6
15°	4159.1	4170.1	4148.1	4143.7	4194.4	4364.0	4615.1	4641.6	4864.1	5190.1	5613.1
17.5°	4483.0	4494.0	4436.7	4346.4	4295.7	4401.5	4648.2	4676.8	4934.6	5289.2	5793.7
20°	4936.8	4950.0	4824.4	4685.6	4511.6	4509.4	4712.1	4738.5	5024.9	5397.2	5985.4
22.5°	5467.7	5476.5	5317.9	5097.6	4831.0	4709.9	4822.2	4848.6	5141.6	5547.0	6192.4
25°	6082.3	6108.7	5917.1	5597.6	5236.4	4985.2	5005.1	5035.9	5350.9	5747.4	6437.0
27.5°	6738.8	6771.8	6551.5	6199.0	5701.2	5289.2	5240.8	5267.2	5573.4	5870.8	6566.9
30°	7410.7	7434.9	7214.6	6811.5	6201.2	5632.9	5439.0	5454.5	5670.3	5930.3	6699.1
32.5°	8157.4	8137.6	7926.1	7461.3	6778.4	6044.8	5624.1	5619.7	5778.3	6049.2	6888.6
35°	8858.0	8886.6	8661.9	8148.6	7412.9	6553.7	5901.6	5884.0	6007.4	6243.1	7155.1
37.5°	9706.1	9697.3	9428.5	8873.4	8049.5	7040.6	6291.6	6260.7	6304.8	6544.9	7527.4
40°	10311.9	10373.6	10199.6	9681.9	8794.1	7639.8	6747.6	6679.3	6690.3	6917.2	8025.3
42.5°	10807.6	10864.8	10882.5	10552.0	9646.6	8379.9	7315.9	7247.6	7254.2	7575.9	8637.7
45°	11188.7	11265.8	11514.7	11417.8	10607.1	9234.7	8084.7	8014.3	8018.7	8375.5	9377.9
47.5°	11345.1	11428.8	11933.3	12164.6	11627.1	10256.8	9040.8	8937.3	8952.7	9347.0	10223.8
50°	11294.4	11406.8	12089.7	12739.5	12481.8	11296.6	10184.1	10111.4	10052.0	10624.7	11142.4
52.5°	10858.2	10981.6	12074.3	13105.2	13180.1	12279.1	11364.9	11323.1	11309.8	11981.7	12169.0
55°	9573.9	9781.0	11543.3	13202.2	13726.4	13204.4	12644.8	12574.3	12642.6	13435.7	13206.6
57.5°	8862.4	9016.6	10503.6	13094.2	14173.6	14085.5	13922.5	13929.1	14006.2	15015.2	14464.4
60°	8457.0	8637.7	9926.4	12799.0	14603.2	15156.1	15259.7	15259.7	15398.5	16718.0	15742.1
62.5°	7919.5	8102.4	9386.7	12230.7	14999.7	16416.2	16940.5	16933.9	16989.0	18544.3	16991.2
65°	6829.1	6998.7	8302.8	11334.1	15193.6	17804.1	18850.5	18830.6	18720.5	20170.0	17817.3
67.5°	4958.8	5119.6	6359.9	9629.0	14495.3	18923.2	20817.7	20826.5	20167.8	21194.4	17861.3
70°	3269.1	3379.3	4088.6	6254.1	11787.9	18440.7	21641.6	21668.0	20390.3	20555.5	15896.3
72.5°	2039.9	2117.0	2553.2	3729.6	6965.7	14596.6	19526.8	19599.5	18343.8	18064.0	13061.2
75°	1354.8	1407.7	1698.5	2174.3	3222.9	7899.7	14843.3	15076.8	14702.3	14160.4	9100.3
77.5°	815.1	859.1	1081.6	1381.2	1427.5	3086.3	8664.1	9267.7	9320.6	7393.0	3811.1
80°	372.3	423.0	597.0	788.6	760.0	1075.0	3055.5	3196.4	3771.4	2348.3	1202.8
82.5°	220.3	242.3	396.5	392.1	323.8	522.1	1099.3	1127.9	958.3	859.1	513.3
85°	88.1	103.5	167.4	147.6	119.0	169.6	414.2	434.0	416.4	374.5	189.5
87.5°	0.0	0.0	0.0	0.0	2.2	4.4	37.4	39.7	57.3	103.5	57.3
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°	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5	5042.5
2.5°	5080.0	5066.7	5132.8	5183.5	5205.5	5227.5	5207.7	5201.1	5201.1	5157.1	5135.0
5°	5135.0	5141.6	5232.0	5273.8	5273.8	5256.2	5203.3	5165.9	5152.6	5095.4	5080.0
7.5°	5238.6	5267.2	5350.9	5348.7	5287.0	5190.1	5057.9	4956.6	4864.1	4824.4	4800.2
10°	5408.2	5445.6	5502.9	5410.4	5238.6	4983.0	4703.3	4483.0	4350.8	4245.0	4245.0
12.5°	5602.0	5637.3	5626.3	5412.6	5057.9	4579.9	4176.8	3923.4	3738.4	3641.4	3641.4
15°	5795.9	5824.5	5705.6	5311.3	4681.2	4044.6	3604.0	3300.0	3139.2	3048.9	3048.9
17.5°	5992.0	5989.8	5738.6	5077.8	4190.0	3452.0	3020.2	2784.5	2729.4	2714.0	2711.8
20°	6181.4	6130.8	5696.8	4687.8	3619.4	2855.0	2581.8	2597.3	2678.8	2714.0	2718.4
22.5°	6395.1	6269.5	5573.4	4190.0	2971.8	2440.8	2458.5	2586.2	2705.2	2758.1	2764.7
25°	6613.2	6388.5	5366.3	3606.2	2429.8	2288.8	2425.4	2568.6	2703.0	2771.3	2777.9
27.5°	6701.3	6388.5	5013.9	2929.9	2141.2	2225.0	2374.8	2513.5	2654.5	2733.8	2749.3
30°	6774.0	6333.4	4520.4	2319.7	2022.3	2163.3	2293.2	2421.0	2559.8	2656.7	2674.4
32.5°	6875.3	6285.0	3923.4	1949.6	1967.2	2103.8	2194.1	2302.1	2427.6	2491.5	2484.9
35°	6994.3	6210.1	3203.1	1773.4	1921.0	2053.1	2117.0	2180.9	2123.6	2121.4	2128.0
37.5°	7163.9	6144.0	2575.2	1694.1	1890.1	2017.9	2070.8	1934.2	1854.9	1821.8	1808.6
40°	7408.4	6117.5	2031.1	1647.8	1885.7	2015.7	1978.2	1766.7	1658.8	1544.3	1542.1
42.5°	7716.9	6097.7	1678.6	1625.8	1901.1	2066.3	1850.5	1656.6	1434.1	1383.4	1379.0
45°	8113.4	6066.9	1502.4	1621.4	1938.6	2106.0	1837.2	1504.6	1352.6	1330.6	1330.6
47.5°	8591.4	6018.4	1423.1	1621.4	1980.4	2088.4	1797.6	1471.6	1315.1	1339.4	1354.8
50°	9140.0	5956.7	1381.2	1616.9	2022.3	2088.4	1713.9	1464.9	1306.3	1431.9	1482.6
52.5°	9725.9	5886.2	1352.6	1599.3	2050.9	2090.6	1718.3	1487.0	1315.1	1453.9	1495.8
55°	10373.6	5875.2	1312.9	1561.9	2059.7	2033.3	1729.3	1535.4	1328.4	1317.4	1319.6
57.5°	11190.9	6007.4	1284.3	1506.8	2024.5	1916.5	1751.3	1570.7	1312.9	1315.1	1330.6
60°	12045.6	6256.3	1308.5	1453.9	1951.8	1806.4	1766.7	1553.1	1238.0	1202.8	1207.2
62.5°	12772.6	6445.8	1328.4	1429.7	1846.1	1709.5	1751.3	1513.4	1196.2	1187.4	1207.2
65°	13076.6	6289.4	1279.9	1379.0	1691.8	1590.5	1718.3	1462.7	1160.9	1127.9	1130.1
67.5°	12739.5	5555.8	1185.2	1266.7	1517.8	1438.5	1665.4	1396.7	1112.5	1072.8	1064.0
70°	10882.5	4082.0	1022.2	1088.2	1306.3	1260.1	1583.9	1310.7	1035.4	1006.7	986.9
72.5°	8769.9	2890.2	848.1	865.8	1024.4	1061.8	1442.9	1202.8	947.3	865.8	837.1
75°	6104.3	1815.2	707.1	689.5	740.2	810.7	1125.7	997.9	817.3	731.4	704.9
77.5°	2625.9	931.8	552.9	544.1	493.5	561.7	863.5	832.7	685.1	586.0	570.6
80°	879.0	539.7	398.7	383.3	328.2	394.3	608.0	665.3	537.5	434.0	407.5
82.5°	440.6	312.8	253.3	229.1	220.3	248.9	359.1	414.2	372.3	299.6	253.3
85°	215.9	178.4	138.8	136.6	114.6	107.9	149.8	176.2	167.4	123.4	116.8
87.5°	79.3	70.5	44.1	35.2	22.0	15.4	8.8	8.8	6.6	6.6	6.6
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)