

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: P640538

Luminaire Tested: GWS-SA5E-722-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640538
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-SA5E-722-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (80) 2200K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28111.2 lumens
Efficiency: N/A
Efficacy: 104.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

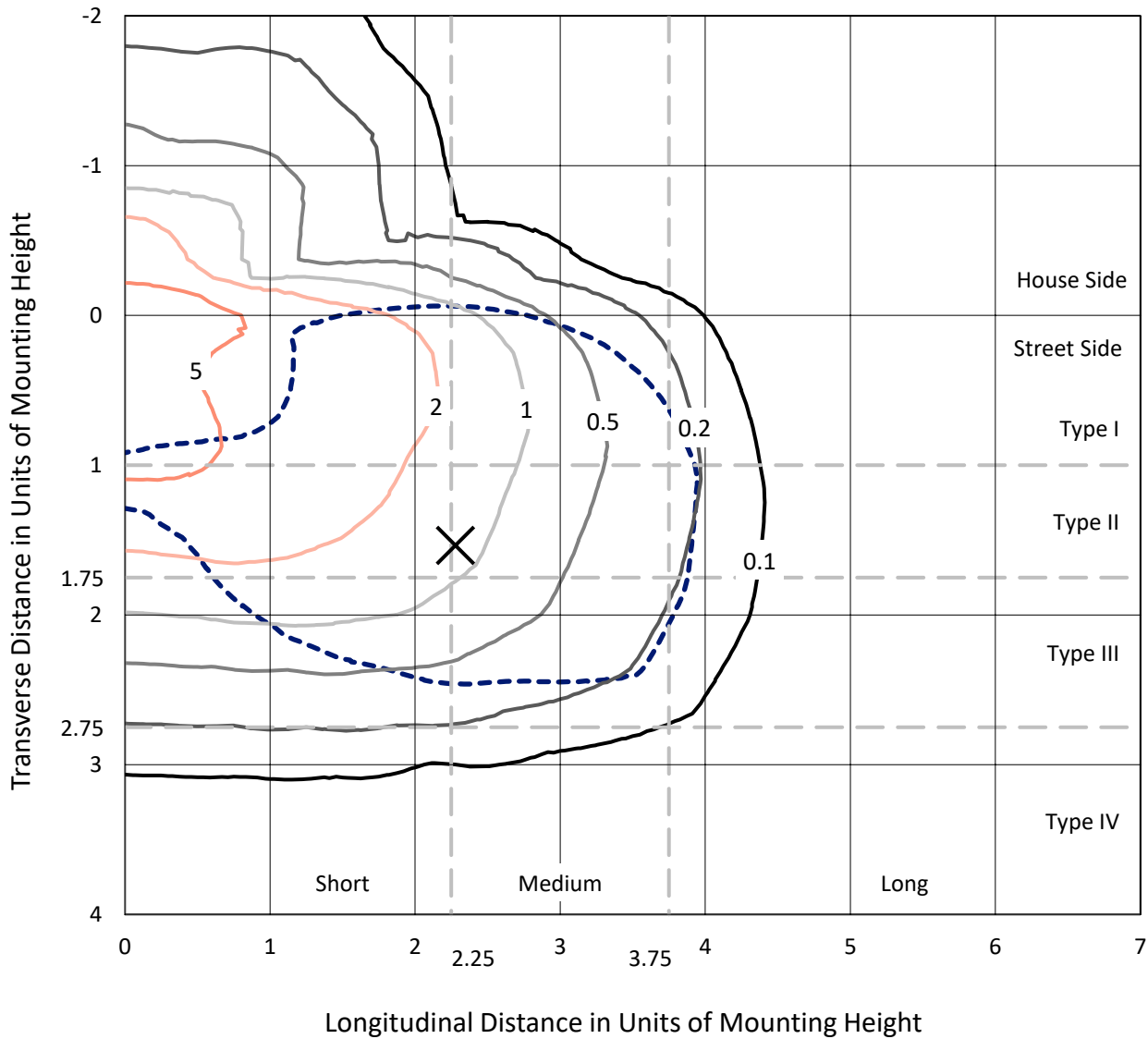
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

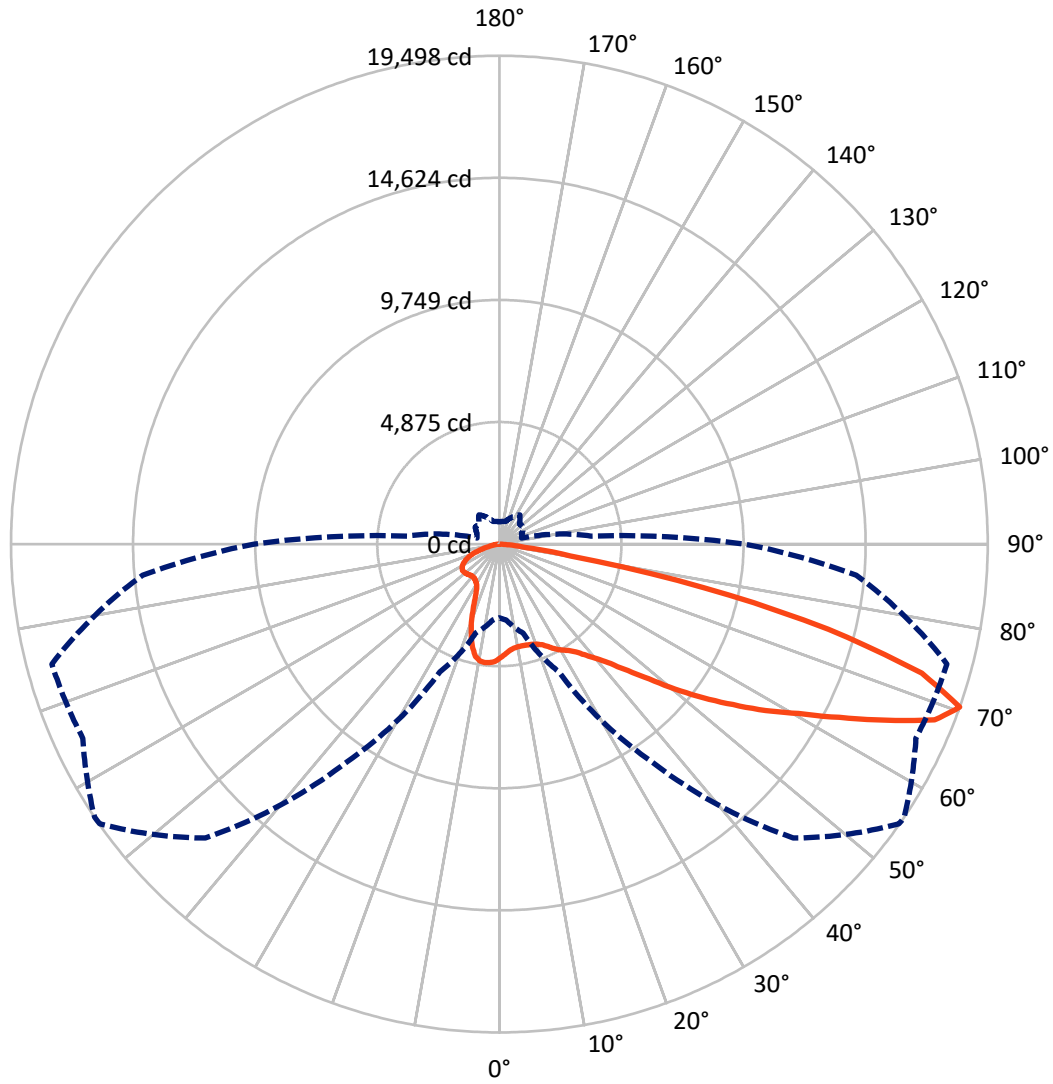
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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	5404.4	0.0	5404.4
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	22706.8	0.0	22706.8
	% Fixture	80.8	0.0	80.8
Total	Lumens	28111.2	0.0	28111.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	419.9	1.5
10°-20°	1137.7	4.0
20°-30°	1881.0	6.7
30°-40°	2812.4	10.0
40°-50°	4185.1	14.9
50°-60°	5950.1	21.2
60°-70°	7369.3	26.2
70°-80°	4069.1	14.5
80°-90°	286.6	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°	28111.2	100.0
0°-180°	28111.2	100.0

Coefficient of Utilization



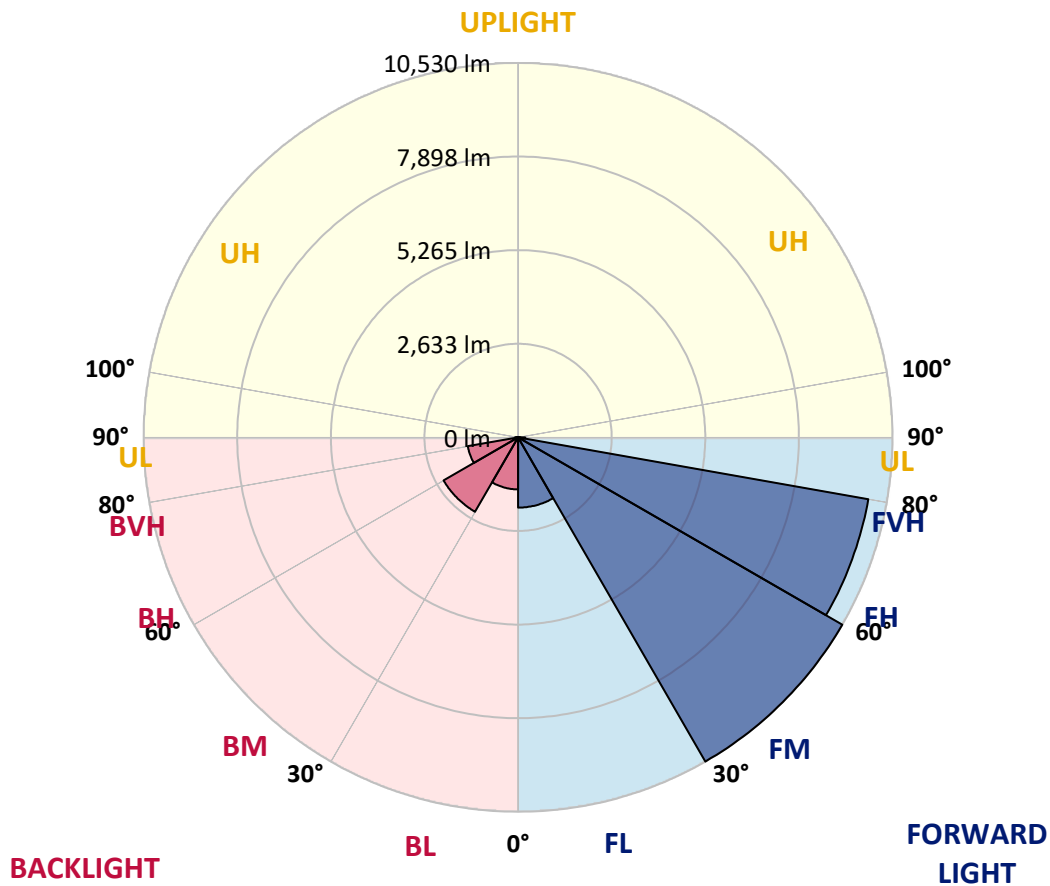
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1975.6	7.0			
FM (30°-60°)	10530.0	37.5			
FH (60°-80°)	10002.0	35.6			G4/12000
FVH (80°-90°)	199.1	0.7			G2/225
BL (0°-30°)	1463.0	5.2	B3/2500		
BM (30°-60°)	2417.5	8.6	B2/2500		
BH (60°-80°)	1436.5	5.1	B3/2500		G3/2500
BVH (80°-90°)	87.4	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°	4537.6	4537.6	4537.6	4537.6	4537.6	4537.6	4537.6	4537.6	4537.6	4537.6	4537.6
2.5°	4246.2	4222.4	4250.1	4264.0	4299.7	4351.2	4396.8	4398.8	4422.6	4480.1	4535.6
5°	4053.9	4042.0	4049.9	4091.6	4129.2	4194.6	4264.0	4270.0	4337.4	4450.4	4561.4
7.5°	3905.2	3889.4	3919.1	3972.6	4020.2	4093.5	4184.7	4192.7	4287.8	4458.3	4628.8
10°	3691.1	3679.2	3734.7	3806.1	3909.2	4030.1	4151.0	4160.9	4285.8	4509.8	4747.7
12.5°	3598.0	3598.0	3621.7	3689.1	3802.1	3962.7	4145.1	4160.9	4317.5	4589.1	4900.3
15°	3742.7	3752.6	3732.7	3728.8	3774.4	3927.0	4153.0	4176.8	4377.0	4670.4	5051.0
17.5°	4034.1	4044.0	3992.4	3911.2	3865.6	3960.7	4182.7	4208.5	4440.4	4759.6	5213.6
20°	4442.4	4454.3	4341.3	4216.4	4059.8	4057.9	4240.2	4264.0	4521.7	4856.7	5386.0
22.5°	4920.2	4928.1	4785.4	4587.1	4347.3	4238.2	4339.3	4363.1	4626.8	4991.5	5572.4
25°	5473.2	5497.0	5324.6	5037.1	4712.0	4486.0	4503.9	4531.6	4815.1	5171.9	5792.4
27.5°	6064.0	6093.7	5895.5	5578.3	5130.3	4759.6	4716.0	4739.8	5015.3	5282.9	5909.4
30°	6668.6	6690.4	6492.2	6129.4	5580.3	5068.8	4894.4	4908.3	5102.5	5336.5	6028.3
32.5°	7340.6	7322.8	7132.5	6714.2	6099.7	5439.5	5060.9	5057.0	5199.7	5443.5	6198.8
35°	7971.0	7996.8	7794.6	7332.7	6670.6	5897.5	5310.7	5294.8	5405.8	5618.0	6438.6
37.5°	8734.2	8726.3	8484.4	7984.9	7243.5	6335.6	5661.6	5633.8	5673.5	5889.5	6773.7
40°	9279.3	9334.8	9178.2	8712.4	7913.5	6874.8	6071.9	6010.5	6020.4	6224.6	7221.7
42.5°	9725.4	9776.9	9792.8	9495.4	8680.7	7540.8	6583.4	6521.9	6527.9	6817.3	7772.8
45°	10068.3	10137.7	10361.7	10274.5	9545.0	8310.0	7275.2	7211.8	7215.7	7536.9	8438.8
47.5°	10209.1	10284.4	10738.3	10946.5	10462.8	9229.8	8135.5	8042.4	8056.2	8411.1	9200.0
50°	10163.5	10264.6	10879.1	11463.9	11231.9	10165.4	9164.4	9098.9	9045.4	9560.8	10026.7
52.5°	9771.0	9882.0	10865.2	11793.0	11860.4	11049.6	10226.9	10189.2	10177.3	10782.0	10950.5
55°	8615.3	8801.6	10387.5	11880.2	12352.0	11882.2	11378.6	11315.2	11376.7	12090.3	11884.1
57.5°	7975.0	8113.7	9451.8	11783.0	12754.4	12675.1	12528.4	12534.3	12603.7	13511.6	13016.1
60°	7610.2	7772.8	8932.4	11517.4	13140.9	13638.5	13731.7	13731.7	13856.6	15044.0	14165.8
62.5°	7126.5	7291.1	8446.8	11006.0	13497.8	14772.4	15244.2	15238.3	15287.8	16687.4	15289.8
65°	6145.3	6297.9	7471.4	10199.1	13672.2	16021.3	16962.9	16945.1	16845.9	18150.3	16033.2
67.5°	4462.3	4607.0	5723.0	8664.8	13043.8	17028.3	18733.1	18741.1	18148.3	19072.1	16072.8
70°	2941.8	3040.9	3679.2	5627.9	10607.5	16594.2	19474.5	19498.3	18348.6	18497.2	14304.6
72.5°	1835.6	1905.0	2297.5	3356.1	6268.2	13135.0	17571.5	17636.9	16507.0	16255.2	11753.3
75°	1219.1	1266.7	1528.4	1956.6	2900.2	7108.7	13357.0	13567.1	13230.1	12742.5	8189.1
77.5°	733.5	773.1	973.3	1242.9	1284.6	2777.3	7796.5	8339.7	8387.3	6652.7	3429.5
80°	335.0	380.6	537.2	709.7	683.9	967.4	2749.5	2876.4	3393.8	2113.2	1082.4
82.5°	198.2	218.1	356.8	352.9	291.4	469.8	989.2	1015.0	862.3	773.1	461.9
85°	79.3	93.2	150.7	132.8	107.0	152.6	372.7	390.5	374.7	337.0	170.5
87.5°	0.0	0.0	0.0	0.0	2.0	4.0	33.7	35.7	51.5	93.2	51.5
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°	4537.6	4537.6	4537.6	4537.6	4537.6	4537.6	4537.6	4537.6	4537.6	4537.6	4537.6
2.5°	4571.3	4559.4	4618.9	4664.4	4684.3	4704.1	4686.3	4680.3	4680.3	4640.7	4620.8
5°	4620.8	4626.8	4708.1	4745.7	4745.7	4729.9	4682.3	4648.6	4636.7	4585.2	4571.3
7.5°	4714.0	4739.8	4815.1	4813.1	4757.6	4670.4	4551.5	4460.3	4377.0	4341.3	4319.5
10°	4866.6	4900.3	4951.9	4868.6	4714.0	4484.1	4232.3	4034.1	3915.1	3820.0	3820.0
12.5°	5041.1	5072.8	5062.9	4870.6	4551.5	4121.3	3758.5	3530.6	3364.0	3276.8	3276.8
15°	5215.5	5241.3	5134.3	4779.4	4212.5	3639.6	3243.1	2969.5	2824.8	2743.6	2743.6
17.5°	5392.0	5390.0	5164.0	4569.3	3770.4	3106.3	2717.8	2505.7	2456.1	2442.2	2440.3
20°	5562.5	5516.9	5126.3	4218.4	3257.0	2569.1	2323.3	2337.2	2410.5	2442.2	2446.2
22.5°	5754.7	5641.7	5015.3	3770.4	2674.2	2196.4	2212.3	2327.3	2434.3	2481.9	2487.8
25°	5951.0	5748.8	4829.0	3245.1	2186.5	2059.7	2182.6	2311.4	2432.3	2493.8	2499.7
27.5°	6030.3	5748.8	4511.8	2636.5	1926.8	2002.2	2137.0	2261.9	2388.7	2460.1	2474.0
30°	6095.7	5699.2	4067.8	2087.4	1819.8	1946.7	2063.6	2178.6	2303.5	2390.7	2406.6
32.5°	6186.9	5655.6	3530.6	1754.4	1770.2	1893.1	1974.4	2071.5	2184.5	2242.0	2236.1
35°	6293.9	5588.2	2882.3	1595.8	1728.6	1847.5	1905.0	1962.5	1911.0	1909.0	1914.9
37.5°	6446.6	5528.8	2317.4	1524.4	1700.8	1815.8	1863.4	1740.5	1669.1	1639.4	1627.5
40°	6666.6	5505.0	1827.7	1482.8	1696.9	1813.8	1780.1	1589.8	1492.7	1389.6	1387.6
42.5°	6944.1	5487.1	1510.5	1463.0	1710.8	1859.4	1665.2	1490.7	1290.5	1244.9	1240.9
45°	7301.0	5459.4	1352.0	1459.0	1744.5	1895.1	1653.3	1353.9	1217.2	1197.3	1197.3
47.5°	7731.1	5415.8	1280.6	1459.0	1782.1	1879.3	1617.6	1324.2	1183.5	1205.3	1219.1
50°	8224.7	5360.3	1242.9	1455.0	1819.8	1879.3	1542.3	1318.3	1175.5	1288.5	1334.1
52.5°	8752.0	5296.8	1217.2	1439.2	1845.6	1881.2	1546.2	1338.1	1183.5	1308.3	1346.0
55°	9334.8	5286.9	1181.5	1405.5	1853.5	1829.7	1556.1	1381.7	1195.4	1185.4	1187.4
57.5°	10070.3	5405.8	1155.7	1355.9	1821.8	1724.6	1576.0	1413.4	1181.5	1183.5	1197.3
60°	10839.4	5629.9	1177.5	1308.3	1756.4	1625.5	1589.8	1397.6	1114.1	1082.4	1086.3
62.5°	11493.6	5800.3	1195.4	1286.5	1661.2	1538.3	1576.0	1361.9	1076.4	1068.5	1086.3
65°	11767.2	5659.6	1151.7	1240.9	1522.4	1431.3	1546.2	1316.3	1044.7	1015.0	1016.9
67.5°	11463.9	4999.5	1066.5	1139.8	1365.8	1294.5	1498.7	1256.8	1001.1	965.4	957.5
70°	9792.8	3673.3	919.8	979.3	1175.5	1133.9	1425.3	1179.5	931.7	905.9	888.1
72.5°	7891.7	2600.8	763.2	779.1	921.8	955.5	1298.4	1082.4	852.4	779.1	753.3
75°	5493.1	1633.4	636.3	620.5	666.1	729.5	1013.0	898.0	735.4	658.1	634.3
77.5°	2363.0	838.5	497.6	489.6	444.0	505.5	777.1	749.3	616.5	527.3	513.4
80°	791.0	485.7	358.8	344.9	295.4	354.8	547.1	598.7	483.7	390.5	366.7
82.5°	396.5	281.5	228.0	206.2	198.2	224.0	323.1	372.7	335.0	269.6	228.0
85°	194.3	160.6	124.9	122.9	103.1	97.1	134.8	158.6	150.7	111.0	105.1
87.5°	71.4	63.4	39.6	31.7	19.8	13.9	7.9	7.9	5.9	5.9	5.9
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)