

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: P643217

Luminaire Tested: GWS-SA6E-740-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643217
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGE-740-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44682.7 lumens
Efficiency: N/A
Efficacy: 138.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B5 - U0 - G5

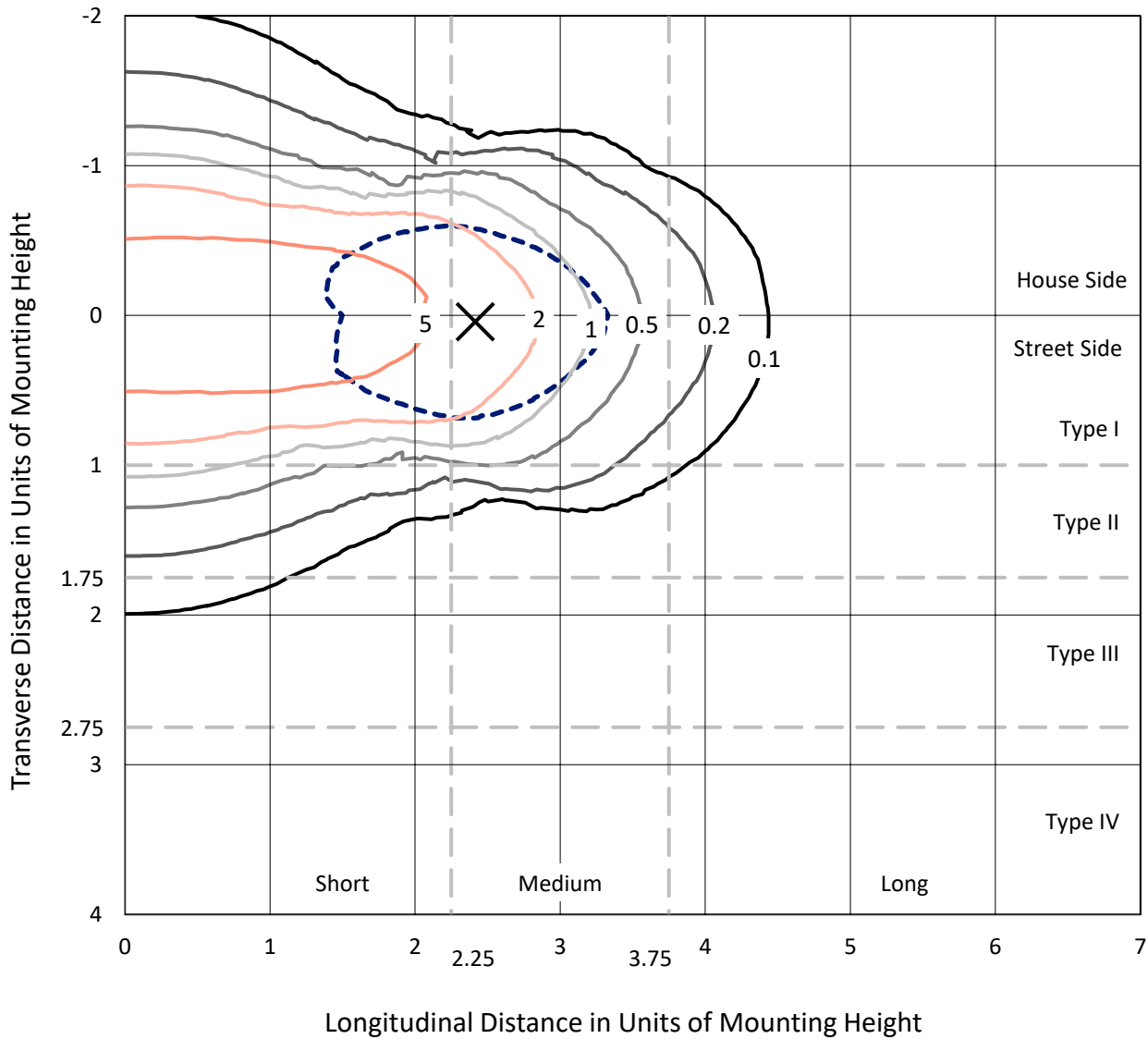
Input Watts (W): 323.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

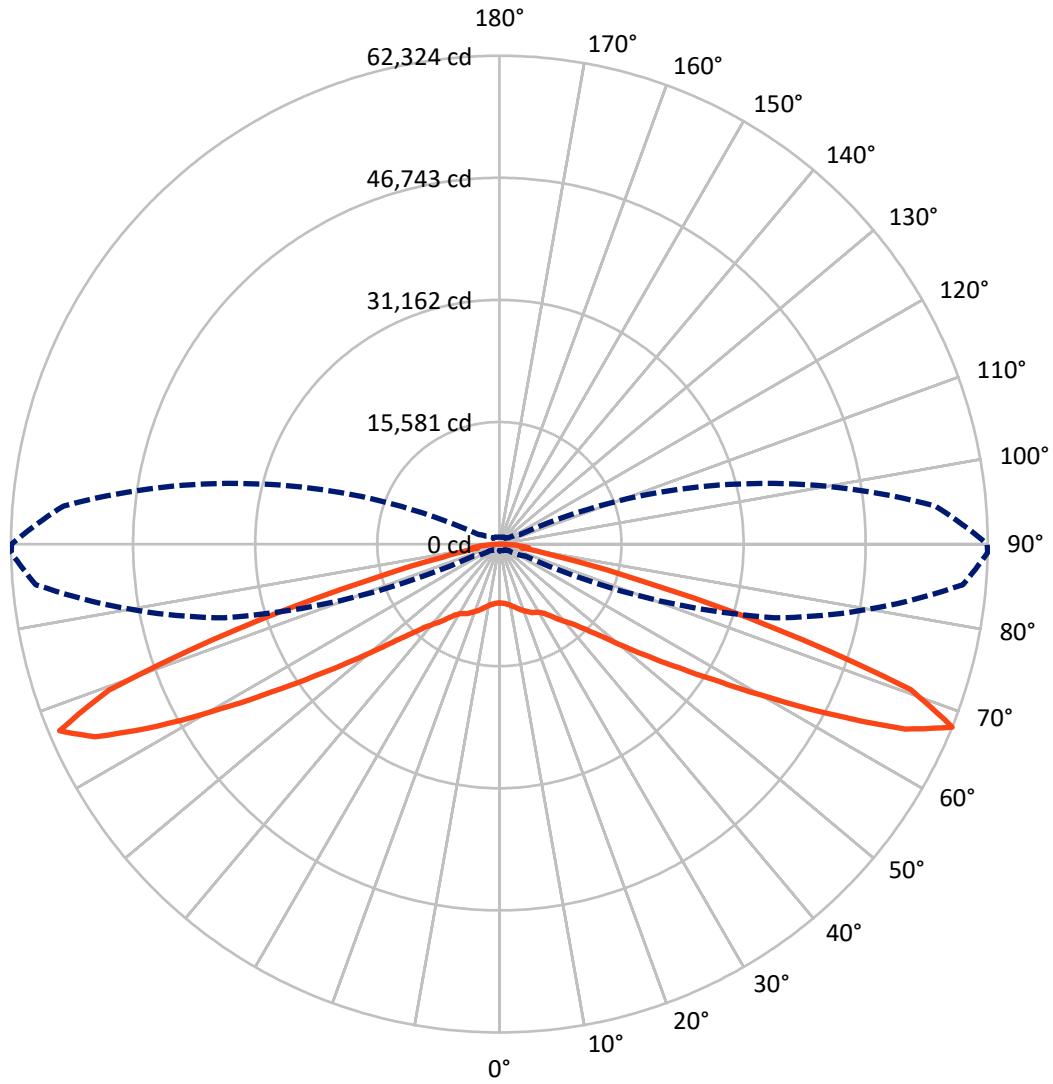
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 9.1 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	22145.5	0.0	22145.5
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	22537.2	0.0	22537.2
	% Fixture	50.4	0.0	50.4
Total	Lumens	44682.7	0.0	44682.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	752.3	1.7
10°-20°	2449.5	5.5
20°-30°	4140.8	9.3
30°-40°	5682.7	12.7
40°-50°	7246.7	16.2
50°-60°	9092.1	20.3
60°-70°	10965.8	24.5
70°-80°	3967.1	8.9
80°-90°	385.8	0.9
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°	44682.7	100.0
0°-180°	44682.7	100.0

Coefficient of Utilization



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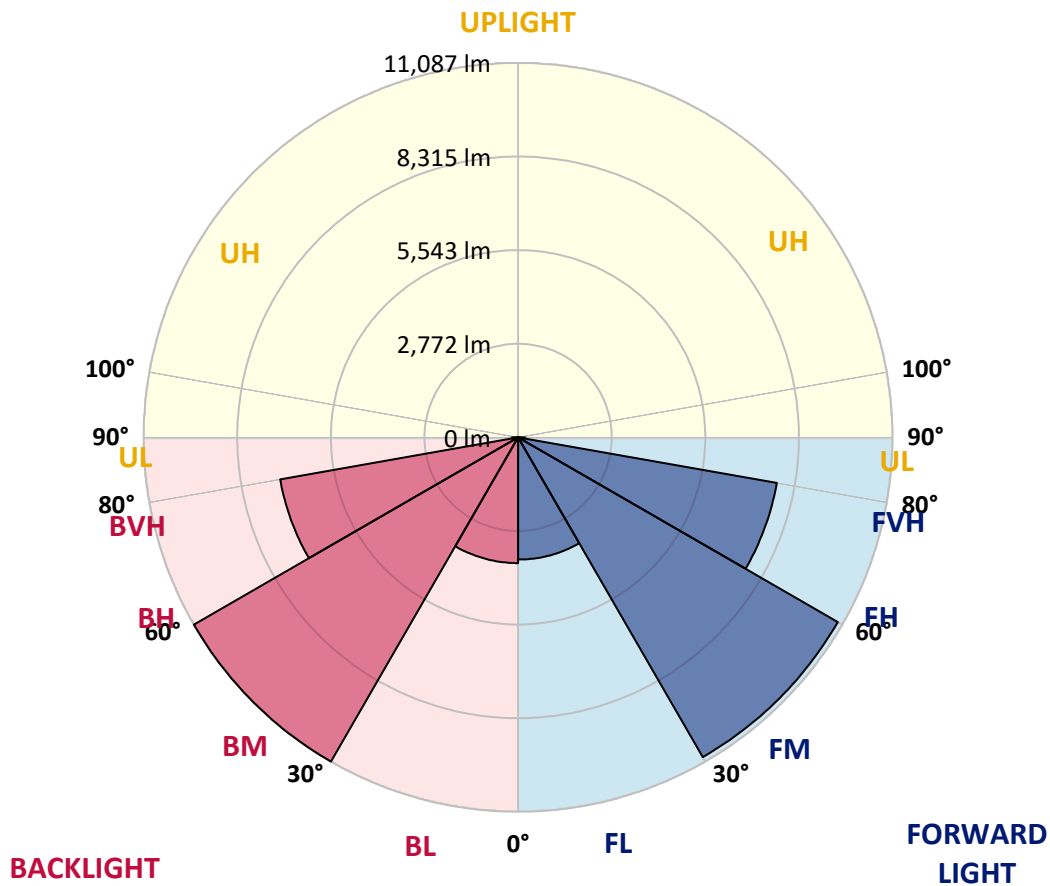
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3619.0	8.1			
FM (30°-60°)	10934.7	24.5			
FH (60°-80°)	7779.9	17.4			G4/12000
FVH (80°-90°)	203.6	0.5			G2/225
BL (0°-30°)	3723.6	8.3	B4/5000		
BM (30°-60°)	11086.7	24.8	B5		
BH (60°-80°)	7153.0	16.0	B5		G5
BVH (80°-90°)	182.2	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°
0°	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6
2.5°	7522.1	7515.7	7499.6	7547.8	7538.1	7541.3	7560.6	7547.8	7525.3	7486.8	7541.3
5°	7733.9	7730.7	7695.4	7724.3	7692.2	7669.7	7666.5	7634.4	7608.7	7567.0	7624.8
7.5°	7939.3	7936.1	7907.2	7958.5	7932.9	7907.2	7878.3	7814.1	7753.1	7692.2	7756.4
10°	8096.5	8093.3	8086.9	8160.7	8167.1	8176.7	8163.9	8054.8	7948.9	7875.1	7939.3
12.5°	8186.4	8196.0	8212.0	8346.8	8414.2	8478.4	8494.4	8404.6	8228.1	8122.2	8199.2
15°	8125.4	8144.7	8224.9	8468.8	8654.9	8799.3	8860.3	8786.5	8558.6	8382.1	8468.8
17.5°	7833.4	7849.4	8006.7	8378.9	8789.7	9123.4	9222.9	9178.0	8924.5	8709.5	8792.9
20°	7429.0	7464.3	7634.4	8154.3	8767.2	9348.1	9614.4	9598.4	9322.4	8991.9	9091.3
22.5°	7063.2	7104.9	7284.6	7859.0	8616.4	9405.8	10009.1	10050.9	9685.0	9274.3	9354.5
25°	6652.4	6690.9	6922.0	7509.3	8356.5	9360.9	10346.1	10535.4	10095.8	9598.4	9672.2
27.5°	6232.0	6260.9	6488.8	7114.5	8016.3	9277.5	10612.4	11068.1	10500.1	9823.0	9874.4
30°	5863.0	5901.5	6110.1	6719.8	7644.0	9110.6	10830.7	11636.1	10965.4	10076.5	10118.2
32.5°	5506.8	5538.9	5766.7	6331.5	7249.3	8853.9	11026.4	12303.6	11655.4	10548.3	10548.3
35°	5057.5	5115.3	5372.0	5959.3	6877.1	8513.7	11167.6	13080.2	12598.9	11244.6	11247.8
37.5°	4643.5	4675.6	4945.2	5538.9	6485.6	8128.6	11180.5	13885.7	13792.6	12130.3	12136.8
40°	4171.8	4213.5	4502.3	5089.6	6036.3	7724.3	11058.5	14636.6	15044.2	13041.7	13006.4
42.5°	3693.7	3754.6	4030.6	4605.0	5551.7	7230.1	10734.4	15352.3	16632.7	14097.5	14010.9
45°	3231.5	3270.1	3546.0	4088.4	4996.5	6639.6	10214.5	16039.0	18519.6	15702.1	15576.9
47.5°	2711.7	2727.7	3013.3	3533.2	4422.1	5981.7	9470.0	16651.9	20592.7	17826.5	17611.5
50°	2249.6	2272.0	2496.7	2942.7	3719.3	5201.9	8542.6	17011.4	23233.8	20724.3	20352.0
52.5°	1819.6	1842.0	2021.7	2377.9	3074.3	4313.0	7393.7	16927.9	25913.4	24321.7	23779.3
55°	1469.8	1485.8	1607.8	1886.9	2419.6	3430.5	6036.3	16180.2	28888.2	29019.8	27851.6
57.5°	1241.9	1248.3	1331.8	1501.9	1890.2	2644.3	4659.6	14415.2	32007.4	35014.3	33095.3
60°	1110.3	1113.6	1152.1	1258.0	1492.2	2018.5	3414.5	11604.1	35239.0	42514.0	39882.5
62.5°	1026.9	1026.9	1059.0	1120.0	1238.7	1553.2	2509.5	8334.0	37559.1	50674.7	48059.3
65°	946.7	946.7	969.1	1020.5	1084.7	1267.6	1883.7	5375.2	38698.4	57497.2	56916.3
67.5°	844.0	847.2	863.2	917.8	975.6	1059.0	1428.0	3635.9	36333.3	59384.1	62323.6
70°	747.7	750.9	773.4	808.7	856.8	914.6	1116.8	2506.3	26446.1	49458.4	55725.8
72.5°	641.8	654.7	670.7	709.2	738.1	779.8	911.4	1623.8	15387.6	31814.9	36837.1
75°	526.3	542.3	561.6	600.1	619.4	635.4	750.9	1158.5	7403.4	16122.4	18359.2
77.5°	407.6	423.6	446.1	481.4	494.2	513.5	574.4	837.6	3546.0	7146.6	7705.0
80°	272.8	279.2	298.4	340.2	362.6	375.5	423.6	571.2	1540.4	2868.9	2843.2
82.5°	166.9	170.1	176.5	202.2	211.8	224.6	276.0	349.8	734.9	3260.4	3738.6
85°	61.0	57.8	54.6	70.6	83.4	96.3	128.4	176.5	320.9	2239.9	2506.3
87.5°	0.0	0.0	0.0	3.2	6.4	6.4	12.8	25.7	77.0	837.6	574.4
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°	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6	7499.6
2.5°	7525.3	7490.0	7534.9	7567.0	7637.6	7663.3	7669.7	7647.2	7647.2	7608.7	7615.2
5°	7611.9	7589.5	7663.3	7717.8	7820.5	7859.0	7884.7	7868.7	7878.3	7852.6	7859.0
7.5°	7743.5	7724.3	7852.6	7958.5	8064.4	8109.4	8131.8	8119.0	8122.2	8090.1	8099.7
10°	7926.4	7932.9	8086.9	8224.9	8366.1	8411.0	8420.6	8382.1	8350.0	8292.3	8295.5
12.5°	8176.7	8208.8	8427.1	8581.1	8725.5	8789.7	8719.1	8577.9	8446.3	8346.8	8334.0
15°	8449.5	8507.3	8821.8	9017.5	9174.8	9142.7	8934.1	8616.4	8356.5	8208.8	8180.0
17.5°	8776.8	8863.5	9258.2	9492.5	9627.3	9421.9	8985.4	8510.5	8147.9	7948.9	7910.4
20°	9084.9	9222.9	9720.3	10025.2	10041.2	9579.1	8963.0	8295.5	7839.8	7595.9	7544.6
22.5°	9367.3	9543.8	10204.9	10593.2	10384.6	9649.7	8825.0	7990.6	7467.5	7181.9	7137.0
25°	9675.4	9925.7	10769.7	11132.3	10728.0	9620.8	8536.2	7611.9	7018.3	6726.2	6694.2
27.5°	9887.2	10201.7	11337.7	11684.3	11010.4	9457.2	8163.9	7198.0	6607.5	6331.5	6286.6
30°	10131.1	10532.2	11963.5	12284.4	11183.7	9216.5	7766.0	6812.9	6225.6	5927.2	5895.1
32.5°	10573.9	11077.8	12740.1	12919.8	11238.2	8918.0	7384.1	6440.6	5827.7	5529.3	5484.3
35°	11286.4	11876.8	13831.2	13629.0	11196.5	8590.7	7021.5	6004.2	5420.1	5141.0	5096.0
37.5°	12184.9	12919.8	15047.4	14267.6	11081.0	8231.3	6591.5	5638.4	5054.3	4771.9	4746.2
40°	13022.5	13927.4	16411.3	14819.6	10846.7	7788.4	6177.5	5256.5	4659.6	4361.1	4303.4
42.5°	14071.8	15275.2	17990.1	15297.7	10461.6	7258.9	5712.2	4784.7	4165.4	3895.8	3825.2
45°	15666.8	17162.2	19825.7	15756.6	9887.2	6607.5	5128.1	4210.3	3623.1	3347.1	3292.5
47.5°	17656.4	19520.9	21815.4	16029.4	9014.3	5920.8	4467.0	3603.8	3016.5	2705.3	2679.6
50°	20451.5	22951.4	23949.4	15981.2	8038.8	5105.7	3722.5	2881.8	2390.8	2166.1	2130.8
52.5°	23856.3	27258.0	26256.7	15403.6	7002.2	4178.2	2901.0	2262.4	1896.6	1736.1	1707.2
55°	28127.6	32415.0	28686.0	14164.9	5692.9	3199.5	2278.5	1784.3	1533.9	1437.7	1424.8
57.5°	33416.2	39093.1	31025.4	12079.0	4280.9	2442.1	1755.4	1473.0	1354.2	1296.5	1293.3
60°	40396.0	46181.9	33056.8	9386.6	3064.7	1867.7	1450.5	1315.7	1222.7	1184.2	1180.9
62.5°	48694.7	52619.4	34321.2	6392.5	2304.1	1489.0	1277.2	1193.8	1139.2	1116.8	1113.6
65°	57224.4	56688.5	33717.9	4187.9	1749.0	1264.4	1145.6	1100.7	1052.6	1030.1	1030.1
67.5°	62262.7	55828.4	29087.1	2907.4	1386.3	1110.3	1033.3	991.6	911.4	892.1	892.1
70°	55148.1	45238.5	19065.2	2127.6	1123.2	972.4	898.5	840.8	808.7	789.4	786.2
72.5°	36474.5	29436.9	10137.5	1476.2	937.1	827.9	760.6	738.1	699.6	680.3	677.1
75°	18153.8	15461.4	5195.5	1065.4	779.8	664.3	635.4	625.8	593.7	568.0	561.6
77.5°	7567.0	6883.5	2422.9	773.4	593.7	535.9	510.2	510.2	474.9	446.1	433.2
80°	2852.9	2541.6	1145.6	529.5	439.6	397.9	381.9	369.0	340.2	304.9	285.6
82.5°	3815.6	2493.5	561.6	330.5	288.8	256.7	234.3	224.6	208.6	192.5	179.7
85°	2471.0	1771.4	253.5	170.1	144.4	109.1	96.3	89.9	80.2	70.6	64.2
87.5°	503.8	593.7	77.0	32.1	19.3	9.6	9.6	3.2	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)