

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: P637678

Luminaire Tested: GWS-SA4D-730-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637678
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-SA4D-730-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22670.1 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

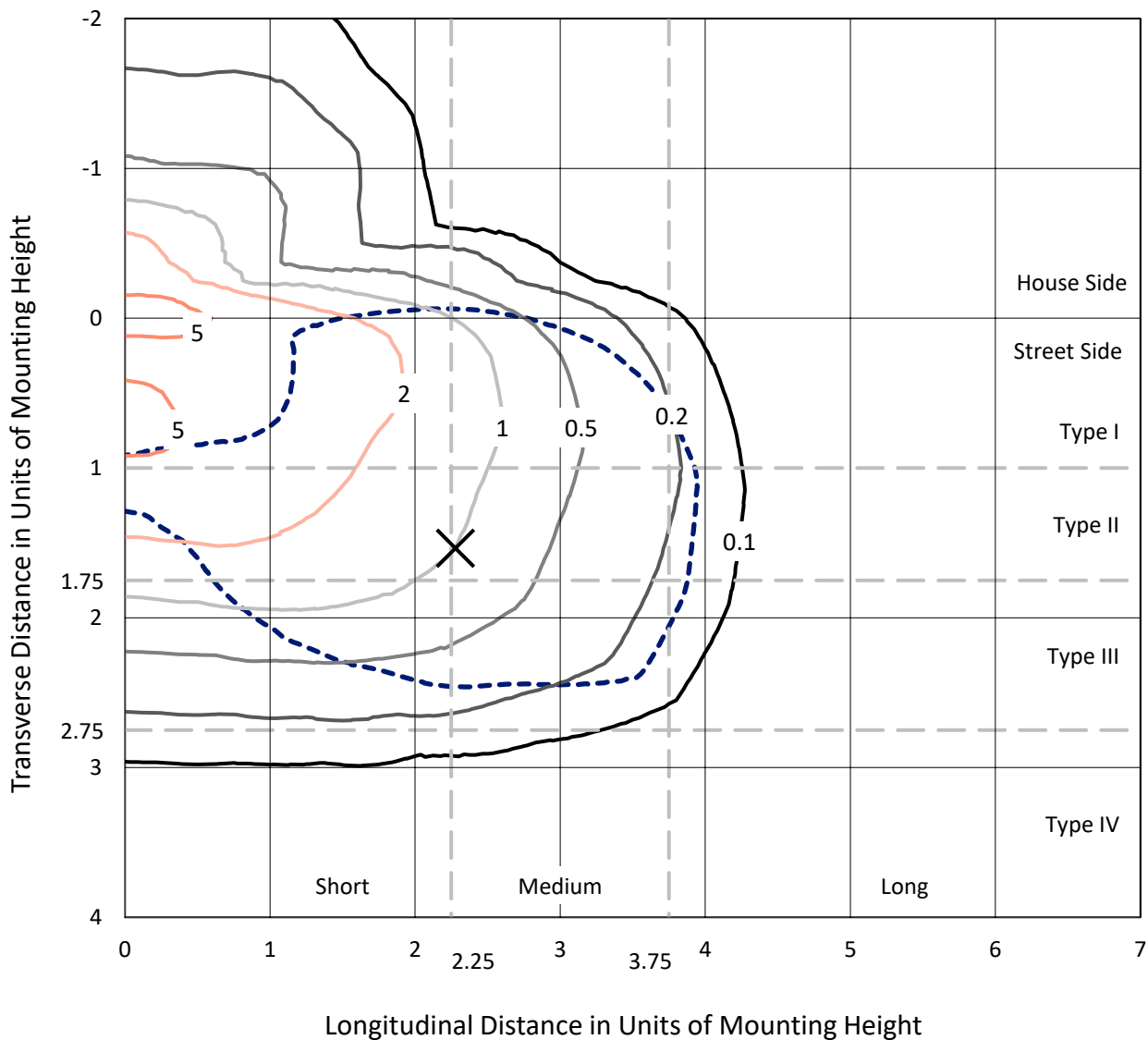
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

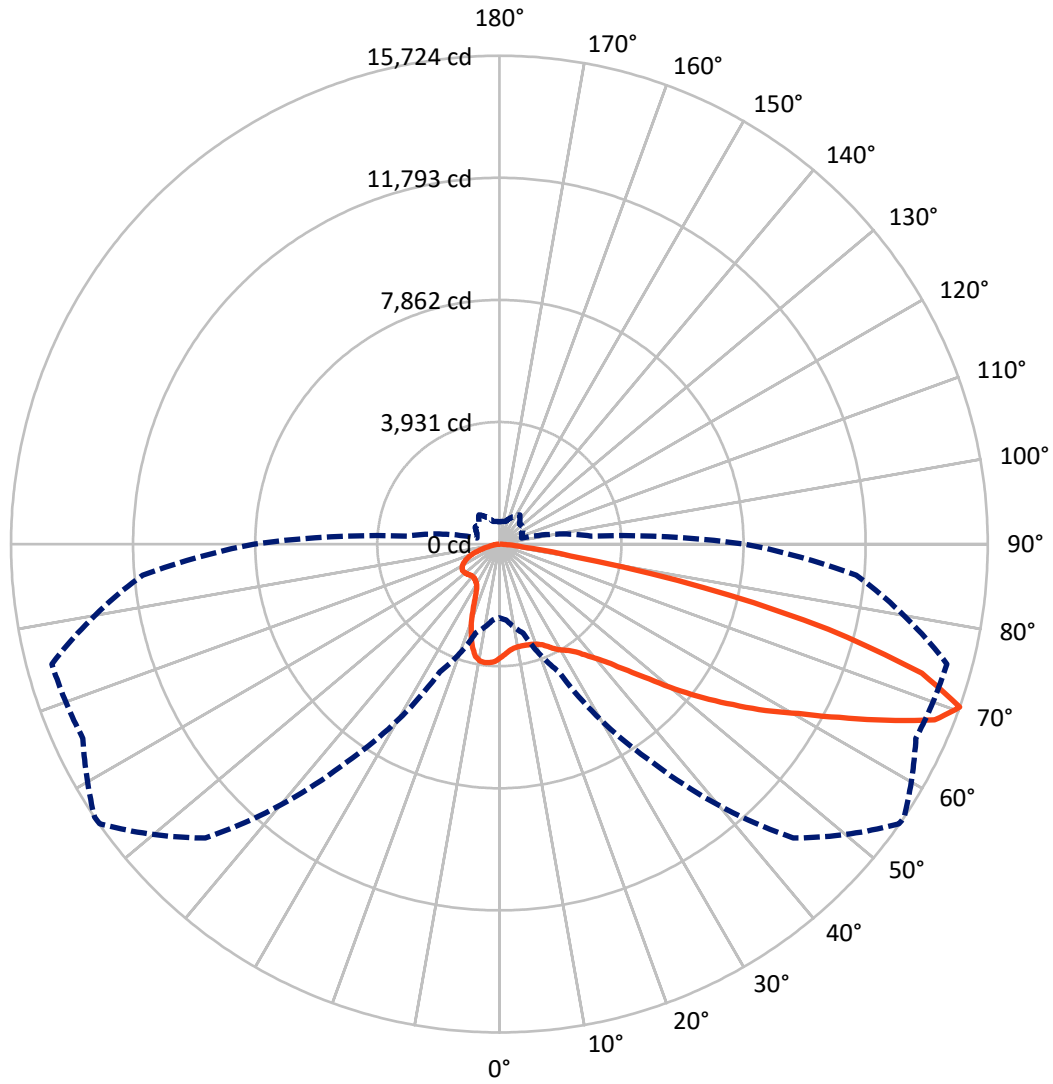
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	4358.4	0.0	4358.4
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	18311.7	0.0	18311.7
	% Fixture	80.8	0.0	80.8
Total	Lumens	22670.1	0.0	22670.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	338.6	1.5
10°-20°	917.5	4.0
20°-30°	1516.9	6.7
30°-40°	2268.0	10.0
40°-50°	3375.1	14.9
50°-60°	4798.4	21.2
60°-70°	5943.0	26.2
70°-80°	3281.5	14.5
80°-90°	231.1	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°	22670.1	100.0
0°-180°	22670.1	100.0

Coefficient of Utilization



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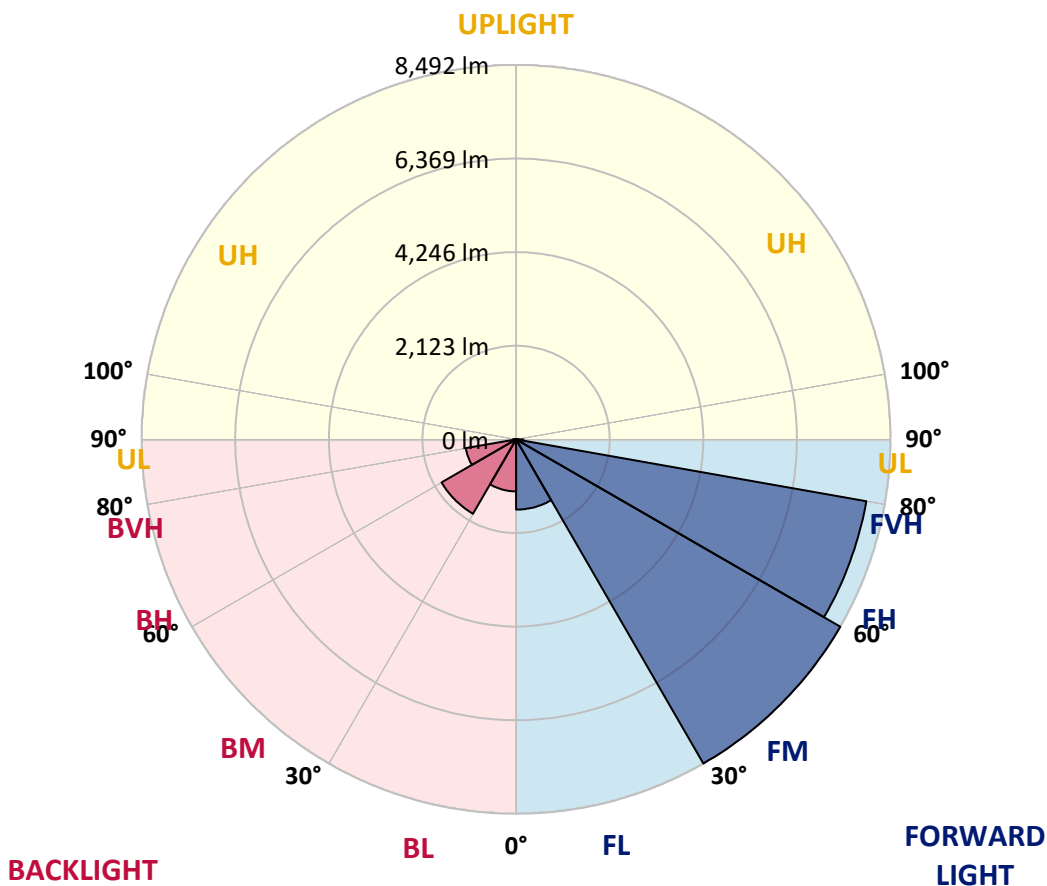
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1593.2	7.0			
FM (30°-60°)	8491.9	37.5			
FH (60°-80°)	8066.0	35.6			G4/12000
FVH (80°-90°)	160.6	0.7			G2/225
BL (0°-30°)	1179.8	5.2	B3/2500		
BM (30°-60°)	1949.6	8.6	B2/2500		
BH (60°-80°)	1158.4	5.1	B3/2500		G3/2500
BVH (80°-90°)	70.5	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°	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3
2.5°	3424.3	3405.1	3427.5	3438.7	3467.5	3509.0	3545.8	3547.4	3566.6	3612.9	3657.7
5°	3269.2	3259.6	3266.0	3299.6	3330.0	3382.7	3438.7	3443.5	3497.8	3589.0	3678.5
7.5°	3149.3	3136.5	3160.5	3203.7	3242.1	3301.2	3374.7	3381.1	3457.9	3595.4	3732.8
10°	2976.7	2967.1	3011.9	3069.4	3152.5	3250.0	3347.6	3355.6	3456.3	3636.9	3828.8
12.5°	2901.5	2901.5	2920.7	2975.1	3066.2	3195.7	3342.8	3355.6	3481.9	3700.9	3951.9
15°	3018.2	3026.2	3010.3	3007.1	3043.8	3166.9	3349.2	3368.3	3529.8	3766.4	4073.4
17.5°	3253.2	3261.2	3219.7	3154.1	3117.4	3194.1	3373.1	3393.9	3581.0	3838.4	4204.4
20°	3582.6	3592.2	3501.0	3400.3	3274.0	3272.4	3419.5	3438.7	3646.5	3916.7	4343.5
22.5°	3967.8	3974.2	3859.1	3699.3	3505.8	3417.9	3499.4	3518.6	3731.2	4025.4	4493.8
25°	4413.9	4433.0	4294.0	4062.2	3800.0	3617.7	3632.1	3654.5	3883.1	4170.9	4671.2
27.5°	4890.3	4914.2	4754.4	4498.6	4137.3	3838.4	3803.2	3822.4	4044.6	4260.4	4765.6
30°	5377.8	5395.4	5235.6	4943.0	4500.2	4087.7	3947.1	3958.2	4114.9	4303.6	4861.5
32.5°	5919.8	5905.4	5751.9	5414.6	4919.0	4386.7	4081.3	4078.1	4193.3	4389.9	4999.0
35°	6428.2	6448.9	6285.9	5913.4	5379.4	4756.0	4282.8	4270.0	4359.5	4530.6	5192.4
37.5°	7043.6	7037.2	6842.2	6439.3	5841.5	5109.3	4565.7	4543.4	4575.3	4749.6	5462.6
40°	7483.3	7528.0	7401.7	7026.1	6381.8	5544.1	4896.7	4847.1	4855.1	5019.8	5823.9
42.5°	7843.0	7884.5	7897.3	7657.5	7000.5	6081.3	5309.1	5259.5	5264.3	5497.7	6268.3
45°	8119.5	8175.5	8356.1	8285.8	7697.5	6701.5	5867.0	5815.9	5819.1	6078.1	6805.4
47.5°	8233.0	8293.8	8659.9	8827.7	8437.7	7443.3	6560.8	6485.7	6496.9	6783.1	7419.3
50°	8196.3	8277.8	8773.4	9245.0	9057.9	8197.9	7390.5	7337.8	7294.6	7710.3	8086.0
52.5°	7879.7	7969.3	8762.2	9510.4	9564.7	8910.9	8247.4	8217.0	8207.5	8695.0	8830.9
55°	6947.7	7098.0	8376.9	9580.7	9961.2	9582.3	9176.2	9125.1	9174.6	9750.1	9583.9
57.5°	6431.4	6543.3	7622.3	9502.4	10285.7	10221.7	10103.4	10108.2	10164.2	10896.4	10496.7
60°	6137.2	6268.3	7203.5	9288.1	10597.4	10998.7	11073.8	11073.8	11174.5	12132.1	11423.9
62.5°	5747.1	5879.8	6811.8	8875.7	10885.2	11913.1	12293.6	12288.8	12328.8	13457.4	12330.4
65°	4955.8	5078.9	6025.3	8225.0	11025.9	12920.3	13679.6	13665.2	13585.3	14637.2	12929.9
67.5°	3598.6	3715.3	4615.3	6987.7	10519.1	13732.4	15107.2	15113.6	14635.6	15380.6	12961.8
70°	2372.4	2452.3	2967.1	4538.6	8554.4	13382.3	15705.1	15724.3	14797.1	14917.0	11535.8
72.5°	1480.3	1536.3	1852.8	2706.5	5054.9	10592.6	14170.4	14223.2	13311.9	13108.9	9478.4
75°	983.2	1021.5	1232.6	1577.9	2338.8	5732.7	10771.7	10941.1	10669.4	10276.1	6604.0
77.5°	591.5	623.5	784.9	1002.4	1035.9	2239.7	6287.5	6725.5	6763.9	5365.1	2765.7
80°	270.2	306.9	433.2	572.3	551.5	780.1	2217.3	2319.6	2736.9	1704.2	872.9
82.5°	159.9	175.9	287.8	284.6	235.0	378.9	797.7	818.5	695.4	623.5	372.5
85°	63.9	75.1	121.5	107.1	86.3	123.1	300.5	314.9	302.1	271.8	137.5
87.5°	0.0	0.0	0.0	0.0	1.6	3.2	27.2	28.8	41.6	75.1	41.6
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°	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3	3659.3
2.5°	3686.5	3676.9	3724.8	3761.6	3777.6	3793.6	3779.2	3774.4	3774.4	3742.4	3726.4
5°	3726.4	3731.2	3796.8	3827.2	3827.2	3814.4	3776.0	3748.8	3739.2	3697.7	3686.5
7.5°	3801.6	3822.4	3883.1	3881.5	3836.8	3766.4	3670.5	3597.0	3529.8	3501.0	3483.5
10°	3924.7	3951.9	3993.4	3926.3	3801.6	3616.1	3413.1	3253.2	3157.3	3080.6	3080.6
12.5°	4065.4	4090.9	4082.9	3927.9	3670.5	3323.6	3031.0	2847.2	2712.9	2642.6	2642.6
15°	4206.0	4226.8	4140.5	3854.3	3397.1	2935.1	2615.4	2394.8	2278.1	2212.5	2212.5
17.5°	4348.3	4346.7	4164.5	3684.9	3040.6	2505.1	2191.7	2020.7	1980.7	1969.5	1967.9
20°	4485.8	4449.0	4134.1	3401.9	2626.6	2071.8	1873.6	1884.8	1944.0	1969.5	1972.7
22.5°	4640.9	4549.7	4044.6	3040.6	2156.6	1771.3	1784.1	1876.8	1963.1	2001.5	2006.3
25°	4799.1	4636.1	3894.3	2617.0	1763.3	1661.0	1760.1	1864.0	1961.5	2011.1	2015.9
27.5°	4863.1	4636.1	3638.5	2126.2	1553.9	1614.6	1723.3	1824.1	1926.4	1983.9	1995.1
30°	4915.8	4596.1	3280.4	1683.4	1467.6	1569.9	1664.2	1756.9	1857.6	1928.0	1940.8
32.5°	4989.4	4560.9	2847.2	1414.8	1427.6	1526.7	1592.3	1670.6	1761.7	1808.1	1803.3
35°	5075.7	4506.6	2324.4	1286.9	1394.0	1489.9	1536.3	1582.7	1541.1	1539.5	1544.3
37.5°	5198.8	4458.6	1868.8	1229.4	1371.6	1464.4	1502.7	1403.6	1346.1	1322.1	1312.5
40°	5376.2	4439.4	1474.0	1195.8	1368.4	1462.8	1435.6	1282.1	1203.8	1120.7	1119.1
42.5°	5600.1	4425.1	1218.2	1179.8	1379.6	1499.5	1342.9	1202.2	1040.7	1004.0	1000.8
45°	5887.8	4402.7	1090.3	1176.6	1406.8	1528.3	1333.3	1091.9	981.6	965.6	965.6
47.5°	6234.7	4367.5	1032.7	1176.6	1437.2	1515.5	1304.5	1067.9	954.4	972.0	983.2
50°	6632.8	4322.7	1002.4	1173.4	1467.6	1515.5	1243.7	1063.1	948.0	1039.1	1075.9
52.5°	7058.0	4271.6	981.6	1160.6	1488.3	1517.1	1246.9	1079.1	954.4	1055.1	1085.5
55°	7528.0	4263.6	952.8	1133.4	1494.7	1475.6	1254.9	1114.3	964.0	956.0	957.6
57.5°	8121.1	4359.5	932.0	1093.5	1469.2	1390.8	1270.9	1139.8	952.8	954.4	965.6
60°	8741.4	4540.2	949.6	1055.1	1416.4	1310.9	1282.1	1127.0	898.4	872.9	876.1
62.5°	9269.0	4677.6	964.0	1037.5	1339.7	1240.6	1270.9	1098.3	868.1	861.7	876.1
65°	9489.6	4564.1	928.8	1000.8	1227.8	1154.2	1246.9	1061.5	842.5	818.5	820.1
67.5°	9245.0	4031.8	860.1	919.2	1101.5	1043.9	1208.6	1013.5	807.3	778.5	772.1
70°	7897.3	2962.3	741.8	789.7	948.0	914.4	1149.4	951.2	751.4	730.6	716.2
72.5°	6364.2	2097.4	615.5	628.3	743.4	770.5	1047.1	872.9	687.4	628.3	607.5
75°	4429.9	1317.3	513.2	500.4	537.1	588.3	816.9	724.2	593.1	530.8	511.6
77.5°	1905.6	676.2	401.3	394.9	358.1	407.7	626.7	604.3	497.2	425.2	414.0
80°	637.9	391.7	289.4	278.2	238.2	286.2	441.2	482.8	390.1	314.9	295.7
82.5°	319.7	227.0	183.8	166.3	159.9	180.6	260.6	300.5	270.2	217.4	183.8
85°	156.7	129.5	100.7	99.1	83.1	78.3	108.7	127.9	121.5	89.5	84.7
87.5°	57.6	51.2	32.0	25.6	16.0	11.2	6.4	6.4	4.8	4.8	4.8
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)