

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: P640727

Luminaire Tested: GWS-SA5E-740-U-SL2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640727
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-27)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-740-U-SL2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36890.7 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G5

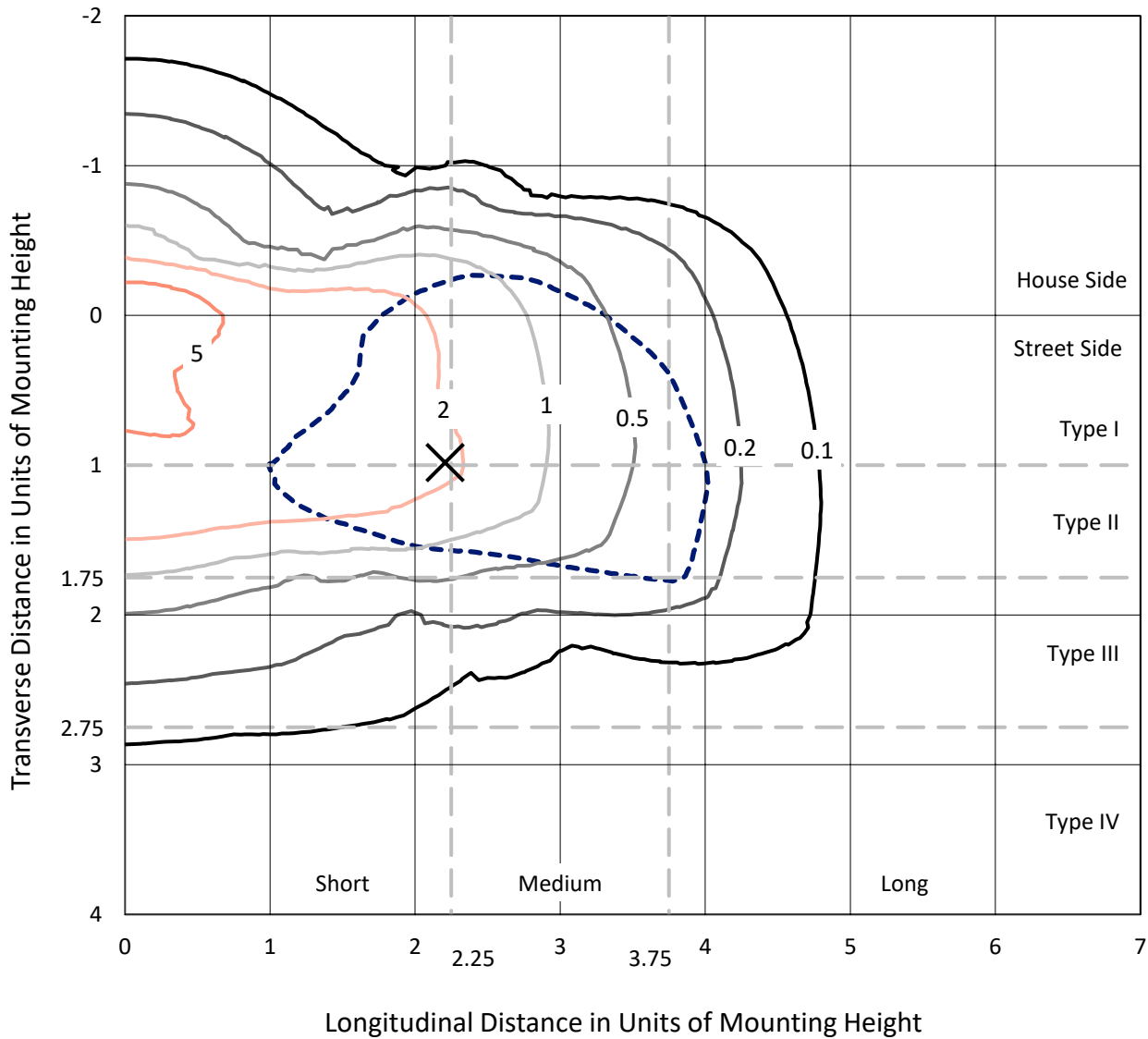
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

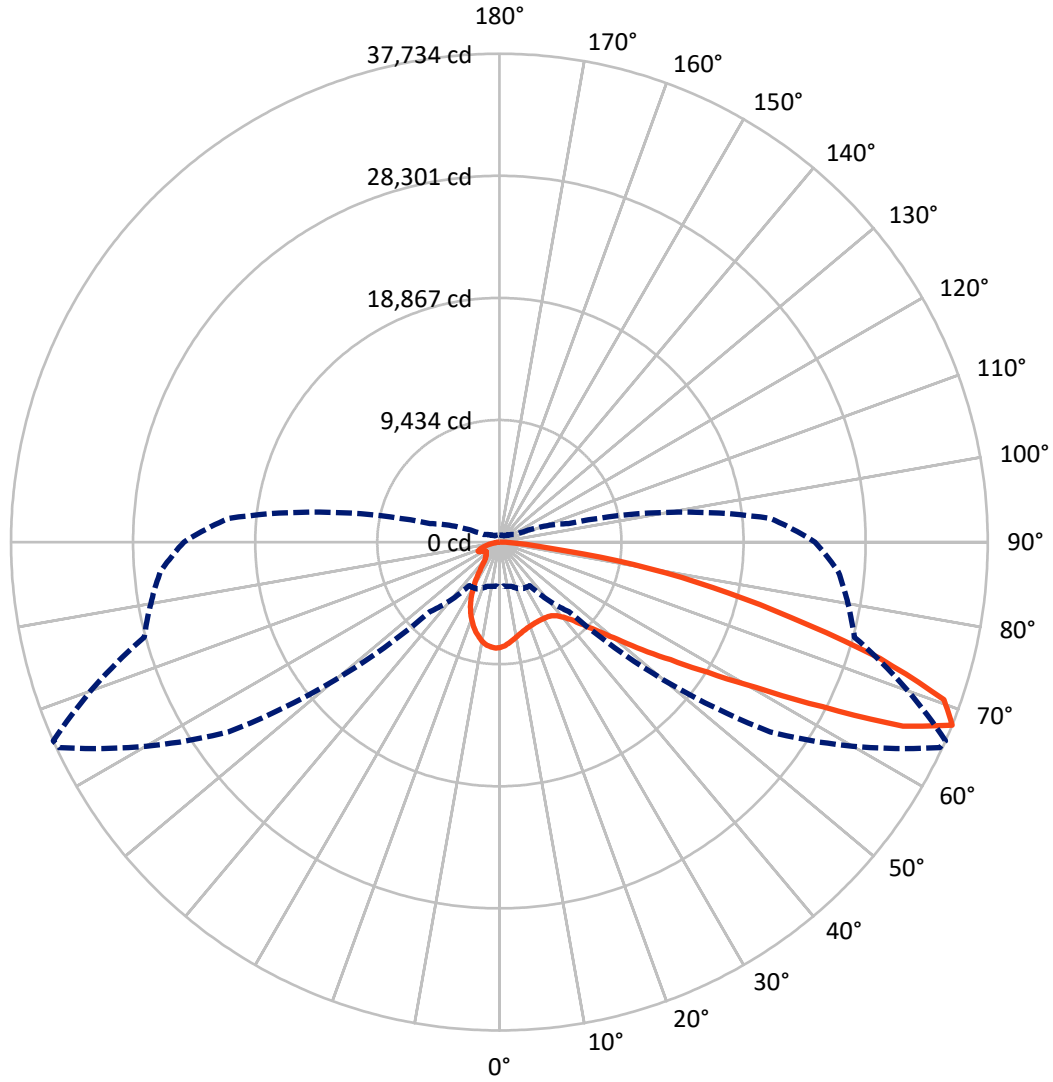
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7486.0	0.0	7486.0
	% Fixture	20.3	0.0	20.3
Street Side	Lumens	29404.7	0.0	29404.7
	% Fixture	79.7	0.0	79.7
Total	Lumens	36890.7	0.0	36890.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	715.4	1.9
10°-20°	1758.2	4.8
20°-30°	2416.8	6.6
30°-40°	3304.1	9.0
40°-50°	5006.6	13.6
50°-60°	7782.9	21.1
60°-70°	9475.5	25.7
70°-80°	5772.0	15.6
80°-90°	659.3	1.8
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°	36890.7	100.0
0°-180°	36890.7	100.0

Coefficient of Utilization



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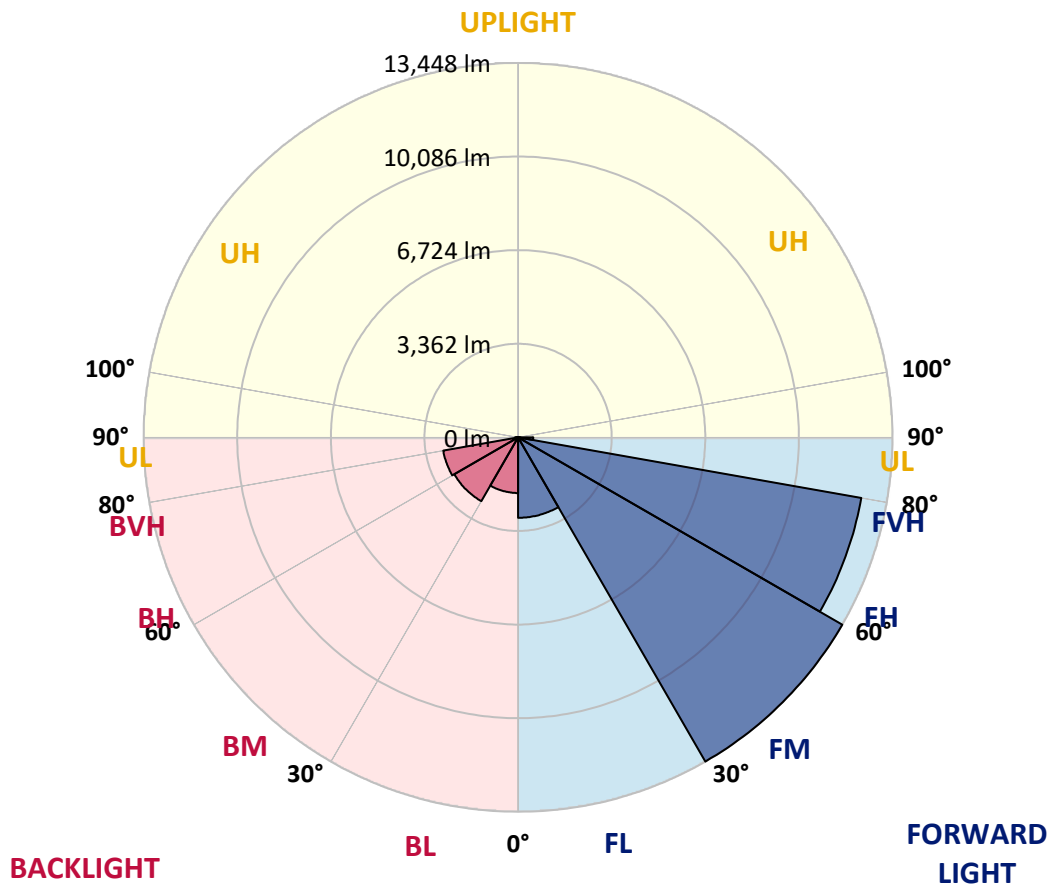
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2890.6	7.8			
FM (30°-60°)	13448.1	36.5			
FH (60°-80°)	12517.9	33.9			G5
FVH (80°-90°)	548.2	1.5			G4/750
BL (0°-30°)	1999.9	5.4	B3/2500		
BM (30°-60°)	2645.5	7.2	B3/5000		
BH (60°-80°)	2729.5	7.4	B4/5000		G4/5000
BVH (80°-90°)	111.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8151.8	8151.8	8151.8	8151.8	8151.8	8151.8	8151.8	8151.8	8151.8	8151.8	8151.8
2.5°	7635.1	7662.0	7645.8	7748.1	7753.5	7882.7	7955.3	8017.2	8022.6	8103.4	8157.2
5°	7113.0	7129.1	7129.1	7226.0	7290.6	7462.8	7629.7	7807.3	7820.8	8014.5	8162.6
7.5°	6690.4	6706.6	6695.8	6825.0	6908.4	7099.5	7312.1	7583.9	7610.9	7923.0	8181.4
10°	6359.4	6354.0	6381.0	6499.4	6607.0	6835.8	7072.6	7382.1	7422.5	7818.1	8202.9
12.5°	6133.4	6138.7	6154.9	6278.7	6394.4	6620.5	6865.4	7201.8	7244.8	7697.0	8192.2
15°	6025.7	6014.9	6028.4	6141.4	6251.8	6450.9	6703.9	7051.1	7094.1	7589.3	8194.9
17.5°	6001.5	5993.4	5990.7	6071.5	6154.9	6340.6	6582.8	6935.4	6981.1	7519.4	8211.0
20°	6076.8	6066.1	6036.5	6071.5	6106.4	6262.5	6496.7	6851.9	6903.1	7473.6	8243.3
22.5°	6284.1	6265.2	6219.5	6176.4	6130.7	6224.9	6442.9	6790.0	6841.2	7444.0	8275.6
25°	6598.9	6582.8	6534.4	6437.5	6270.6	6254.5	6432.1	6763.1	6814.2	7422.5	8289.1
27.5°	7032.2	7008.0	6959.6	6819.6	6547.8	6364.8	6472.5	6760.4	6808.9	7398.2	8275.6
30°	7546.3	7530.1	7503.2	7333.7	6970.3	6598.9	6564.0	6782.0	6819.6	7384.8	8248.7
32.5°	8068.4	8052.2	8073.8	7993.0	7546.3	6986.5	6763.1	6841.2	6868.1	7382.1	8224.5
35°	8528.6	8547.4	8703.5	8717.0	8278.3	7511.3	7078.0	6978.4	6983.8	7435.9	8235.2
37.5°	9010.3	9083.0	9287.5	9462.4	9096.4	8205.6	7546.3	7236.8	7231.4	7573.2	8302.5
40°	9648.1	9680.4	9941.5	10269.8	10041.1	9158.3	8211.0	7659.3	7621.6	7853.1	8482.8
42.5°	10269.8	10347.9	10765.0	11141.8	11066.4	10232.1	9048.0	8291.7	8224.5	8348.3	8854.2
45°	11061.0	11136.4	11604.7	12089.1	12226.4	11445.9	10119.1	9190.6	9123.3	9093.7	9535.1
47.5°	11852.3	11930.3	12350.1	13049.9	13531.6	12963.8	11513.2	10377.5	10267.1	10151.4	10563.2
50°	12385.1	12476.6	12877.6	13717.3	14847.6	14858.4	13165.6	11933.0	11793.1	11610.1	12011.1
52.5°	12366.3	12425.5	12807.7	13776.5	15794.9	17035.6	15377.8	13913.8	13800.7	13402.4	13752.3
55°	11394.8	11483.6	11868.4	13079.5	15897.2	19099.8	18628.8	16249.8	16047.9	15334.7	15719.6
57.5°	9443.6	9519.0	9906.5	11400.1	14990.3	20157.5	22757.2	19226.3	18949.1	17439.3	17883.4
60°	7129.1	7037.6	7220.6	8528.6	12821.1	20184.4	26401.2	23263.2	22800.3	19689.2	20060.6
62.5°	5350.2	5258.7	5299.1	5667.8	8692.7	18553.5	28478.8	28785.6	28021.3	22229.7	22157.1
65°	4228.0	4176.8	4292.5	4545.5	5067.6	14129.1	28495.0	34757.5	34275.8	25174.0	24307.4
67.5°	3444.8	3412.5	3530.9	3999.2	4109.5	7592.0	25550.7	37545.6	37734.0	28398.1	26301.6
70°	2774.7	2726.2	2911.9	3528.2	3821.6	4594.0	18303.2	36124.7	36428.8	30319.6	25739.1
72.5°	1916.2	1918.9	2013.1	2858.1	3689.7	3966.9	10353.2	30080.1	30739.5	28578.4	22628.0
75°	1291.8	1302.6	1329.5	1886.6	3399.0	3848.5	5517.1	22773.4	23238.9	23621.1	18704.2
77.5°	780.5	785.8	847.7	1141.1	2344.1	3592.8	3738.1	16508.1	16874.1	15571.6	11593.9
80°	452.1	471.0	527.5	764.3	1582.5	2699.3	2893.1	10121.8	10536.2	6921.9	3684.3
82.5°	199.2	212.6	288.0	444.1	923.1	2295.6	2258.0	3999.2	3940.0	1929.6	1278.3
85°	35.0	43.1	61.9	139.9	339.1	1211.1	1752.0	1765.5	1660.5	732.0	530.2
87.5°	0.0	0.0	0.0	0.0	0.0	8.1	263.7	473.7	471.0	207.2	183.0
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°	8151.8	8151.8	8151.8	8151.8	8151.8	8151.8	8151.8	8151.8	8151.8	8151.8	8151.8
2.5°	8192.2	8119.5	8184.1	8192.2	8178.7	8167.9	8087.2	8017.2	8009.2	7933.8	7933.8
5°	8221.8	8154.5	8186.8	8124.9	8028.0	7928.4	7756.2	7637.8	7583.9	7487.1	7487.1
7.5°	8262.1	8192.2	8154.5	8001.1	7775.0	7557.0	7279.8	7048.4	6954.2	6816.9	6811.6
10°	8299.8	8211.0	8081.8	7783.1	7422.5	7075.3	6671.6	6343.3	6119.9	5955.7	5955.7
12.5°	8297.1	8181.4	7925.7	7484.4	6986.5	6483.2	5945.0	5449.8	5153.7	4898.1	4881.9
15°	8291.7	8133.0	7726.6	7137.2	6477.8	5780.8	5048.8	4402.9	3964.2	3713.9	3692.4
17.5°	8286.4	8071.1	7503.2	6741.6	5858.9	4908.8	3942.7	3243.0	2876.9	2723.5	2728.9
20°	8286.4	8001.1	7263.7	6286.8	5145.7	3864.6	2893.1	2384.4	2292.9	2301.0	2309.1
22.5°	8262.1	7915.0	6997.3	5791.6	4351.8	2842.0	2134.2	1961.9	2010.4	2085.7	2096.5
25°	8205.6	7772.3	6687.8	5242.6	3407.1	2069.6	1741.2	1708.9	1797.8	1891.9	1918.9
27.5°	8116.8	7608.2	6340.6	4599.3	2508.2	1663.2	1531.3	1528.6	1598.6	1668.6	1692.8
30°	8022.6	7425.2	5974.6	3883.5	1816.6	1447.9	1396.8	1396.8	1431.7	1474.8	1469.4
32.5°	7912.3	7239.5	5581.7	3138.0	1480.2	1326.8	1310.6	1302.6	1307.9	1324.1	1324.1
35°	7818.1	7075.3	5178.0	2349.5	1326.8	1259.5	1243.4	1224.5	1216.4	1205.7	1211.1
37.5°	7783.1	6946.1	4760.8	1770.8	1251.4	1211.1	1184.2	1157.2	1138.4	1133.0	1130.3
40°	7839.6	6892.3	4343.7	1458.7	1197.6	1159.9	1130.3	1095.3	1079.2	1079.2	1079.2
42.5°	8060.3	6932.7	3918.5	1318.7	1159.9	1116.9	1073.8	1041.5	1036.1	1041.5	1044.2
45°	8464.0	7088.8	3477.1	1248.7	1127.6	1073.8	1022.7	998.5	998.5	1003.8	1003.8
47.5°	9185.2	7497.8	3041.1	1205.7	1095.3	1038.8	985.0	960.8	958.1	963.5	963.5
50°	10434.0	8235.2	2648.2	1176.1	1071.1	1011.9	958.1	925.8	917.7	915.0	915.0
52.5°	12008.4	9513.6	2397.9	1154.5	1041.5	982.3	928.5	885.4	869.3	861.2	861.2
55°	13911.1	11217.1	2397.9	1138.4	1003.8	947.3	885.4	842.4	818.1	807.4	807.4
57.5°	16066.8	13200.6	2812.4	1124.9	974.2	907.0	839.7	796.6	769.7	753.6	753.6
60°	18260.1	15297.1	3837.7	1106.1	947.3	855.8	788.5	748.2	713.2	694.3	691.7
62.5°	20534.2	17606.2	5188.7	1116.9	928.5	807.4	734.7	689.0	659.4	640.5	637.8
65°	22617.3	19804.9	6370.2	1200.3	931.2	764.3	672.8	632.4	608.2	584.0	581.3
67.5°	24385.4	21018.7	5541.3	1369.8	987.7	713.2	610.9	570.5	549.0	532.9	530.2
70°	23147.4	19167.1	3143.4	1474.8	1065.7	659.4	540.9	514.0	492.5	481.7	479.0
72.5°	19794.1	16228.2	2101.9	1302.6	971.5	589.4	476.4	454.8	438.7	425.2	422.5
75°	16034.5	12869.6	1606.7	1068.4	756.2	479.0	409.1	392.9	376.8	363.3	360.6
77.5°	9486.7	7435.9	1184.2	845.1	532.9	374.1	339.1	325.6	309.5	298.7	296.0
80°	3027.7	2583.6	750.9	581.3	352.6	288.0	261.1	250.3	234.1	220.7	218.0
82.5°	1154.5	998.5	398.3	296.0	234.1	196.5	174.9	164.2	153.4	139.9	137.3
85°	511.3	479.0	220.7	158.8	126.5	96.9	86.1	80.7	67.3	56.5	53.8
87.5°	180.3	180.3	94.2	45.8	26.9	13.5	8.1	2.7	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)