

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: P641226

Luminaire Tested: GWS-SA5F-740-U-SL3-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641226
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-31)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-740-U-SL3-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40896.1 lumens
Efficiency: N/A
Efficacy: 131.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

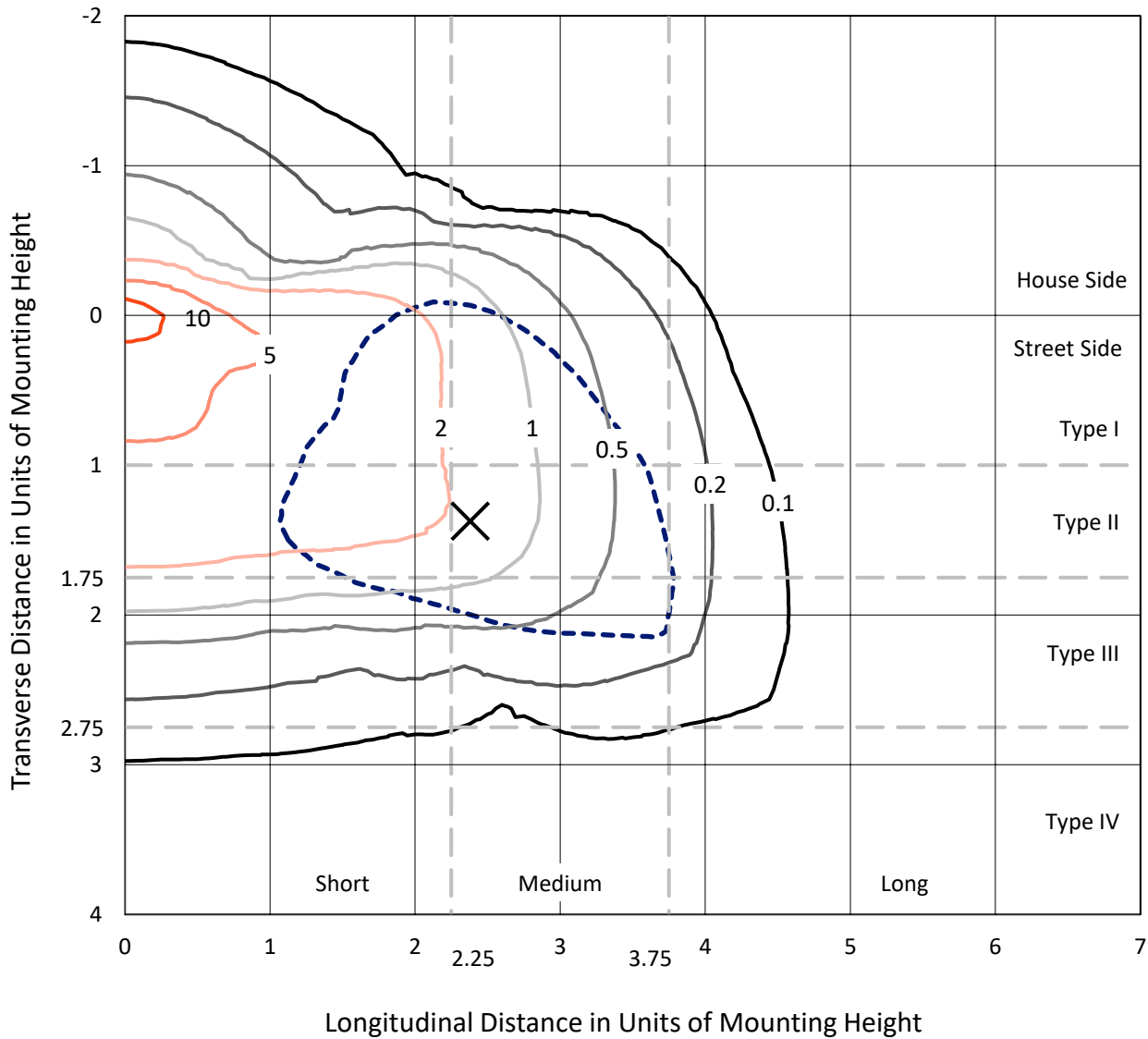
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

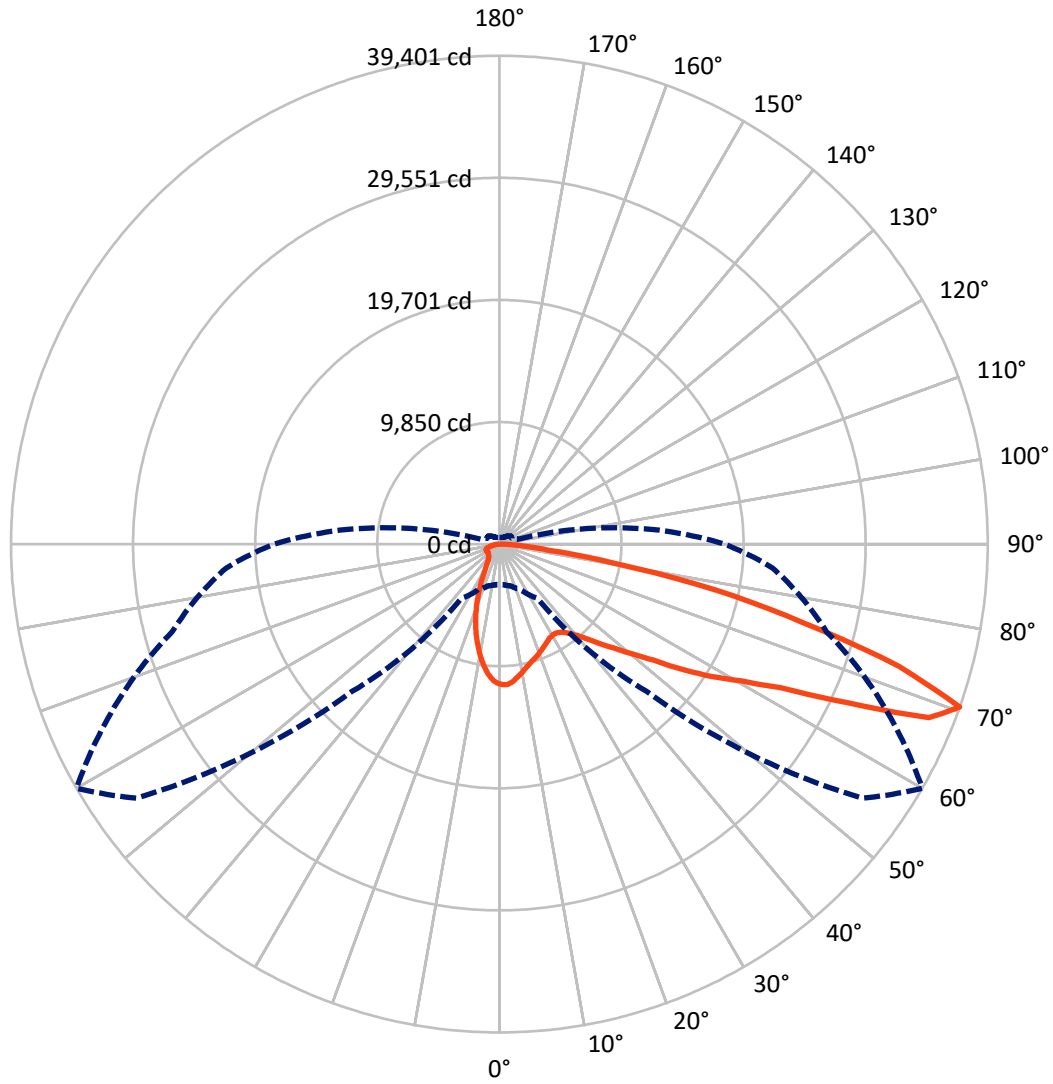
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6994.2	0.0	6994.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	33901.9	0.0	33901.9
	% Fixture	82.9	0.0	82.9
Total	Lumens	40896.1	0.0	40896.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	975.4	2.4
10°-20°	2185.3	5.3
20°-30°	2798.6	6.8
30°-40°	3678.1	9.0
40°-50°	5336.3	13.0
50°-60°	8325.9	20.4
60°-70°	10900.2	26.7
70°-80°	6027.4	14.7
80°-90°	668.9	1.6
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°	40896.1	100.0
0°-180°	40896.1	100.0

Coefficient of Utilization



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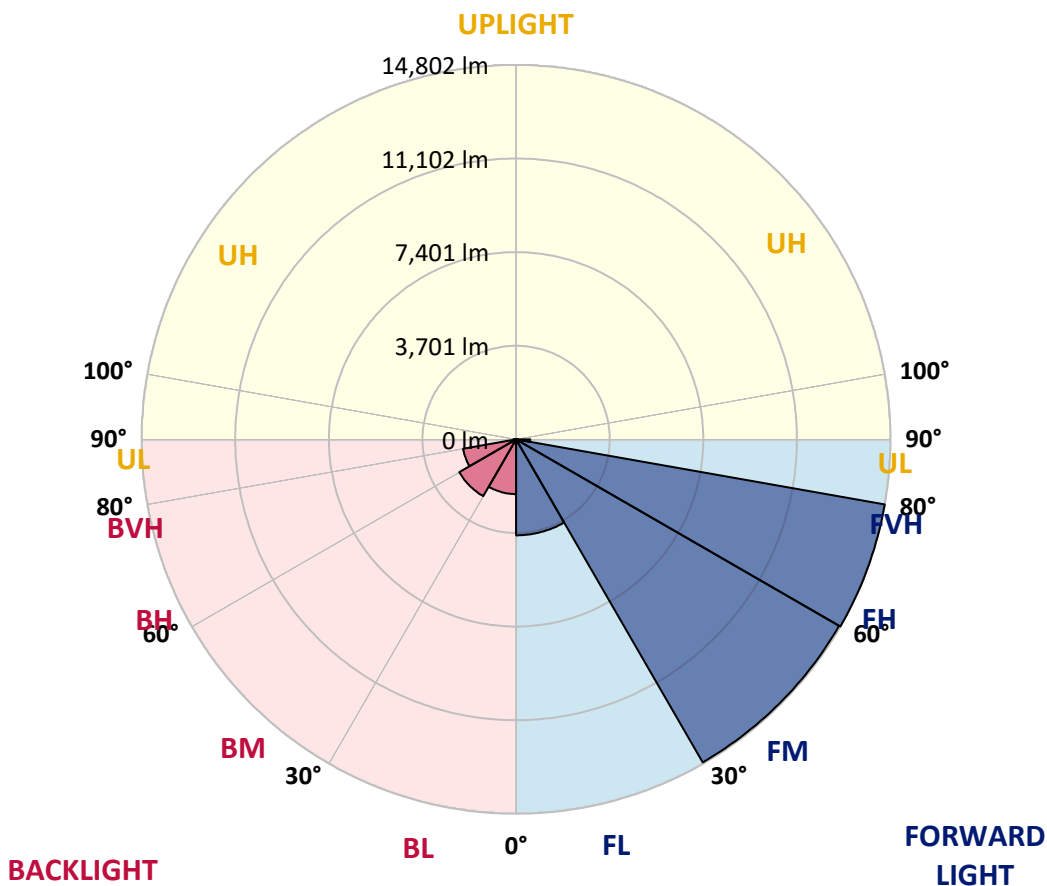
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3795.4	9.3			
FM (30°-60°)	14747.0	36.1			
FH (60°-80°)	14802.1	36.2			G5
FVH (80°-90°)	557.4	1.4			G4/750
BL (0°-30°)	2163.9	5.3	B3/2500		
BM (30°-60°)	2593.2	6.3	B3/5000		
BH (60°-80°)	2125.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	111.5	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5
2.5°	11157.9	11169.9	11202.8	11250.7	11298.5	11322.5	11382.3	11364.4	11352.4	11328.4	11298.5
5°	10664.2	10688.1	10718.0	10810.8	10915.5	10999.3	11134.0	11148.9	11154.9	11166.9	11119.0
7.5°	10035.8	10041.8	10113.6	10236.3	10373.9	10517.6	10742.0	10804.8	10858.7	10918.5	10879.6
10°	9341.6	9356.6	9410.5	9587.0	9823.4	10035.8	10338.0	10442.8	10556.5	10688.1	10634.3
12.5°	8773.1	8776.1	8862.9	9051.4	9308.7	9596.0	9973.0	10098.7	10248.3	10454.7	10406.9
15°	8321.3	8321.3	8402.1	8563.7	8859.9	9198.0	9646.8	9808.4	10011.9	10290.2	10206.4
17.5°	7962.2	7965.2	8016.1	8186.6	8450.0	8824.0	9356.6	9575.0	9799.4	10167.5	10041.8
20°	7773.7	7758.8	7767.7	7872.5	8096.9	8458.9	9066.3	9320.7	9622.9	10083.7	9892.2
22.5°	7764.7	7737.8	7698.9	7707.9	7839.5	8138.8	8755.2	9063.4	9443.4	10014.9	9739.6
25°	7917.3	7887.4	7818.6	7740.8	7728.8	7908.4	8461.9	8812.0	9257.9	9985.0	9593.0
27.5°	8174.7	8153.7	8064.0	7947.3	7824.6	7818.6	8240.5	8605.6	9123.2	10014.9	9488.2
30°	8515.8	8479.9	8423.0	8273.4	8087.9	7896.4	8153.7	8494.8	9033.4	10110.6	9443.4
32.5°	8901.8	8880.8	8827.0	8677.4	8479.9	8174.7	8222.6	8518.8	9033.4	10278.2	9452.3
35°	9311.7	9308.7	9308.7	9210.0	8991.5	8611.5	8494.8	8722.2	9171.1	10547.5	9548.1
37.5°	9709.7	9706.7	9802.4	9838.3	9590.0	9180.1	8958.6	9129.2	9473.3	10945.4	9784.5
40°	10032.8	10044.8	10254.3	10433.8	10296.1	9916.1	9604.9	9691.7	9964.0	11511.0	10197.4
42.5°	10359.0	10391.9	10706.1	11023.2	11077.1	10748.0	10433.8	10484.7	10667.2	12259.0	10813.8
45°	10715.0	10730.0	11169.9	11612.7	11873.0	11678.5	11421.2	11490.0	11531.9	13183.6	11732.4
47.5°	11059.2	11098.0	11666.6	12274.0	12767.7	12749.7	12606.1	12585.2	12594.1	14308.7	12818.6
50°	11528.9	11585.8	12253.0	12986.1	13710.2	14042.4	14084.3	13925.7	13859.8	15559.4	14171.0
52.5°	12420.6	12420.6	13019.0	13740.2	14712.6	15535.5	15816.7	15556.4	15347.0	16882.0	15607.3
55°	13536.7	13584.6	14060.3	14643.8	15876.6	17106.4	18057.9	17770.6	17178.2	18321.2	17112.4
57.5°	14033.4	14093.2	14847.3	15753.9	17399.6	18892.7	20212.3	20110.5	19245.8	19817.3	18674.3
60°	13135.7	13261.4	14299.7	15819.7	18779.0	21774.2	22704.8	22408.5	21172.8	21388.2	20367.9
62.5°	10957.4	11095.1	12247.1	14368.5	18587.5	24889.1	26633.5	25541.4	23578.5	23372.0	22624.0
65°	6537.9	6532.0	7917.3	10730.0	16226.7	25753.8	32851.3	30813.6	27294.8	26094.9	24945.9
67.5°	4156.2	4147.2	4437.4	5685.2	10798.8	23635.3	36848.9	37378.5	32342.6	28096.7	25137.4
70°	3279.4	3276.5	3485.9	4054.4	5341.1	16819.1	35735.8	39401.2	35391.7	27333.7	22133.3
72.5°	2390.8	2396.7	2719.9	3396.1	4120.3	8444.0	28937.5	33713.1	32552.1	24129.1	17968.1
75°	1717.5	1726.5	1921.0	2600.2	3800.1	4617.0	19242.8	25349.9	24766.4	19341.5	12360.8
77.5°	1092.2	1104.1	1274.7	1822.2	3070.0	3728.3	11666.6	17896.3	16478.0	10897.6	4395.5
80°	667.3	706.2	849.8	1358.5	2453.6	2797.7	5831.8	9428.4	8252.5	2989.2	1478.1
82.5°	344.1	374.0	511.7	840.8	1690.6	2456.6	3300.4	3961.7	2555.3	1250.7	786.9
85°	107.7	125.7	179.5	341.1	804.9	1523.0	2184.3	1968.9	1172.9	589.5	365.0
87.5°	26.9	26.9	29.9	29.9	32.9	68.8	421.9	445.8	311.2	185.5	149.6
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°	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5	11316.5
2.5°	11238.7	11166.9	11136.9	11134.0	11059.2	10951.4	10879.6	10828.8	10798.8	10792.8	10792.8
5°	11038.2	10945.4	10822.8	10730.0	10529.5	10326.1	10155.5	10059.8	9949.0	9934.1	9931.1
7.5°	10771.9	10637.3	10403.9	10143.5	9793.5	9455.3	9168.1	8973.6	8779.1	8743.2	8731.2
10°	10484.7	10302.1	9904.2	9446.4	8922.7	8417.0	7977.2	7633.1	7405.7	7244.1	7214.2
12.5°	10200.4	9958.0	9374.5	8692.3	7974.2	7283.0	6621.7	6059.2	5652.3	5415.9	5374.0
15°	9934.1	9596.0	8797.1	7926.3	6992.8	6047.2	5110.7	4380.6	3809.1	3605.6	3557.7
17.5°	9691.7	9269.8	8237.5	7133.4	5969.4	4733.7	3668.4	3019.1	2684.0	2582.3	2558.3
20°	9449.4	8934.7	7669.0	6298.6	4883.3	3497.9	2681.0	2375.8	2250.1	2211.2	2199.3
22.5°	9189.0	8566.7	7049.6	5475.7	3785.1	2618.2	2193.3	2058.6	2019.7	2022.7	2019.7
25°	8928.7	8192.6	6400.3	4581.0	2818.6	2124.5	1915.0	1864.1	1873.1	1900.0	1906.0
27.5°	8713.3	7860.5	5763.0	3599.6	2202.3	1828.2	1729.5	1726.5	1759.4	1795.3	1801.3
30°	8557.7	7564.3	5134.6	2767.8	1813.3	1624.8	1585.9	1603.8	1642.7	1669.6	1678.6
32.5°	8447.0	7309.9	4464.4	2175.3	1588.9	1481.1	1463.2	1481.1	1505.1	1532.0	1538.0
35°	8408.1	7124.4	3806.1	1774.4	1436.3	1376.4	1364.4	1373.4	1385.4	1400.3	1406.3
37.5°	8494.8	7031.7	3117.9	1544.0	1343.5	1307.6	1289.6	1283.7	1286.6	1292.6	1295.6
40°	8752.2	7073.5	2555.3	1409.3	1283.7	1250.7	1220.8	1208.8	1205.9	1211.8	1208.8
42.5°	9195.0	7250.1	2148.4	1331.5	1235.8	1187.9	1155.0	1143.0	1143.0	1158.0	1158.0
45°	9844.3	7597.2	1855.2	1274.7	1193.9	1134.0	1098.1	1092.2	1104.1	1128.1	1131.0
47.5°	10795.8	8105.9	1678.6	1232.8	1155.0	1086.2	1050.3	1047.3	1071.2	1110.1	1113.1
50°	11923.9	8838.9	1582.9	1202.9	1128.1	1047.3	1011.4	1014.4	1041.3	1083.2	1092.2
52.5°	13282.4	9838.3	1588.9	1190.9	1113.1	1023.3	987.4	981.4	1008.4	1050.3	1059.2
55°	14685.7	11053.2	1705.6	1193.9	1092.2	1011.4	963.5	942.5	966.5	996.4	999.4
57.5°	16229.7	12423.6	1995.8	1187.9	1065.2	999.4	942.5	894.7	909.6	927.6	936.6
60°	17971.1	14036.4	2621.2	1199.9	1053.3	972.5	900.7	837.8	834.8	846.8	849.8
62.5°	20299.0	16229.7	3324.3	1220.8	1080.2	939.5	837.8	772.0	760.0	766.0	769.0
65°	22079.4	17276.9	3102.9	1202.9	1137.0	915.6	778.0	709.2	685.2	679.2	679.2
67.5°	21355.3	15891.5	2160.4	1155.0	1164.0	918.6	730.1	643.3	613.4	598.4	595.4
70°	18171.6	12908.3	1502.1	1107.1	1134.0	912.6	679.2	589.5	550.6	529.6	526.6
72.5°	14356.5	9856.3	1214.8	1011.4	1029.3	822.9	604.4	529.6	496.7	469.8	469.8
75°	9239.9	6014.3	1014.4	900.7	840.8	640.3	523.6	472.8	439.9	412.9	412.9
77.5°	3108.9	2232.2	786.9	763.0	628.4	481.7	439.9	406.9	380.0	356.1	353.1
80°	1262.7	1059.2	577.5	577.5	439.9	368.0	344.1	329.1	311.2	281.3	281.3
82.5°	733.1	643.3	403.9	350.1	293.2	254.3	239.4	224.4	224.4	203.5	203.5
85°	353.1	356.1	242.4	215.4	167.6	146.6	140.6	131.7	128.7	116.7	113.7
87.5°	191.5	194.5	122.7	95.8	65.8	56.9	47.9	44.9	41.9	38.9	38.9
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)