

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: P640733

Luminaire Tested: GWS-SA5E-740-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-740-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36053.7 lumens
Efficiency: N/A
Efficacy: 133.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

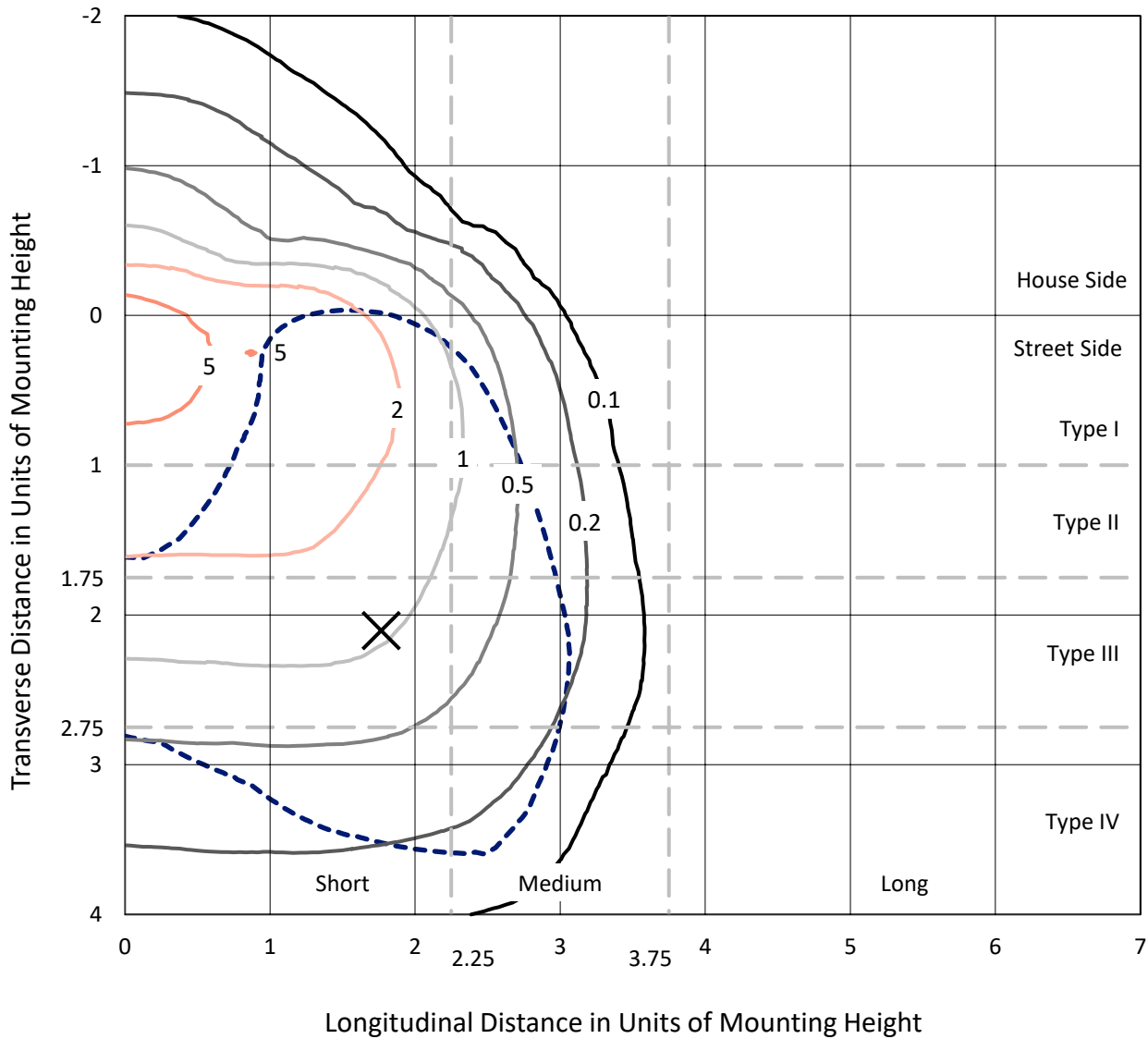
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

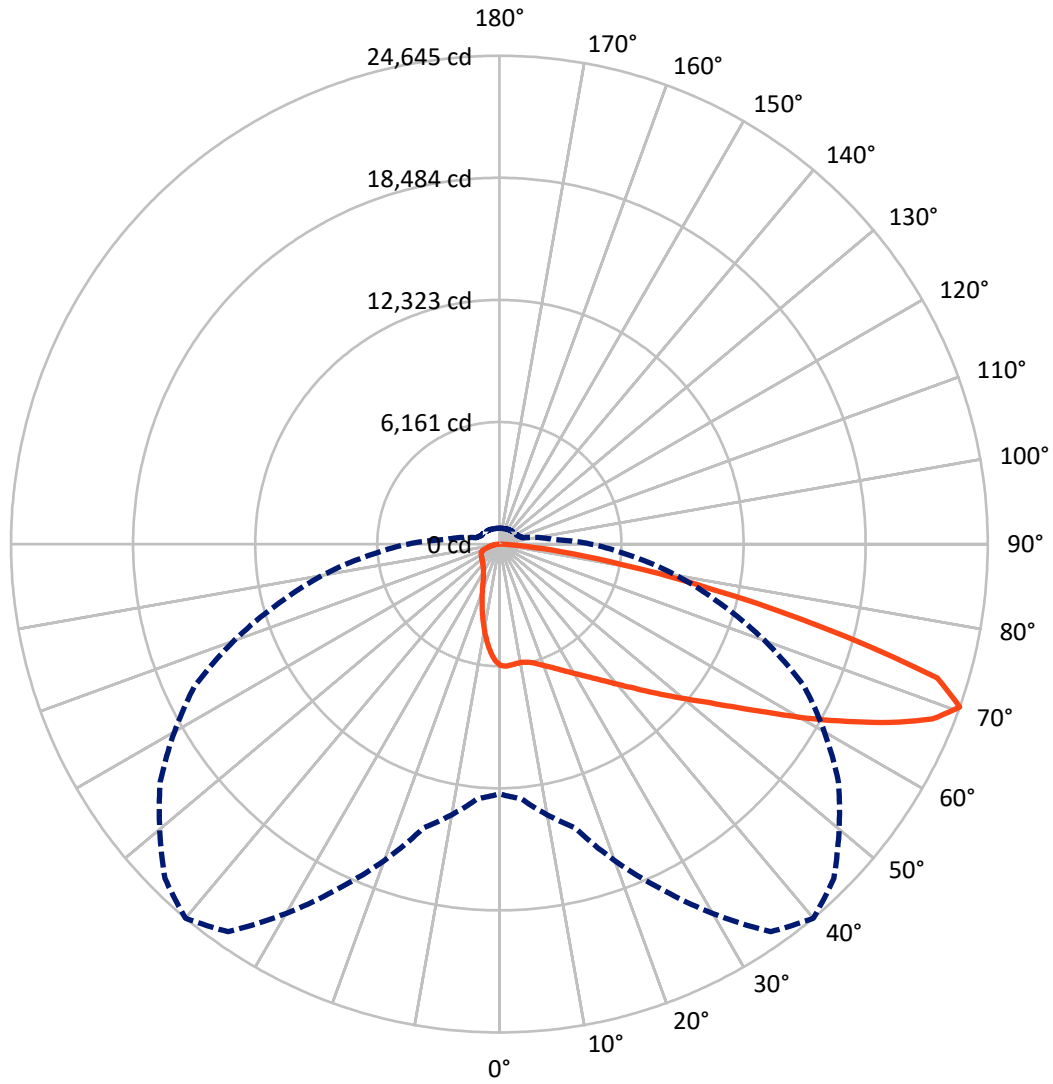
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5553.2	0.0	5553.2
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	30500.5	0.0	30500.5
	% Fixture	84.6	0.0	84.6
Total	Lumens	36053.7	0.0	36053.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.9	1.5
10°-20°	1409.8	3.9
20°-30°	2213.6	6.1
30°-40°	3328.2	9.2
40°-50°	5137.2	14.2
50°-60°	7629.2	21.2
60°-70°	9616.5	26.7
70°-80°	5561.1	15.4
80°-90°	617.2	1.7
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°	36053.7	100.0
0°-180°	36053.7	100.0

Coefficient of Utilization



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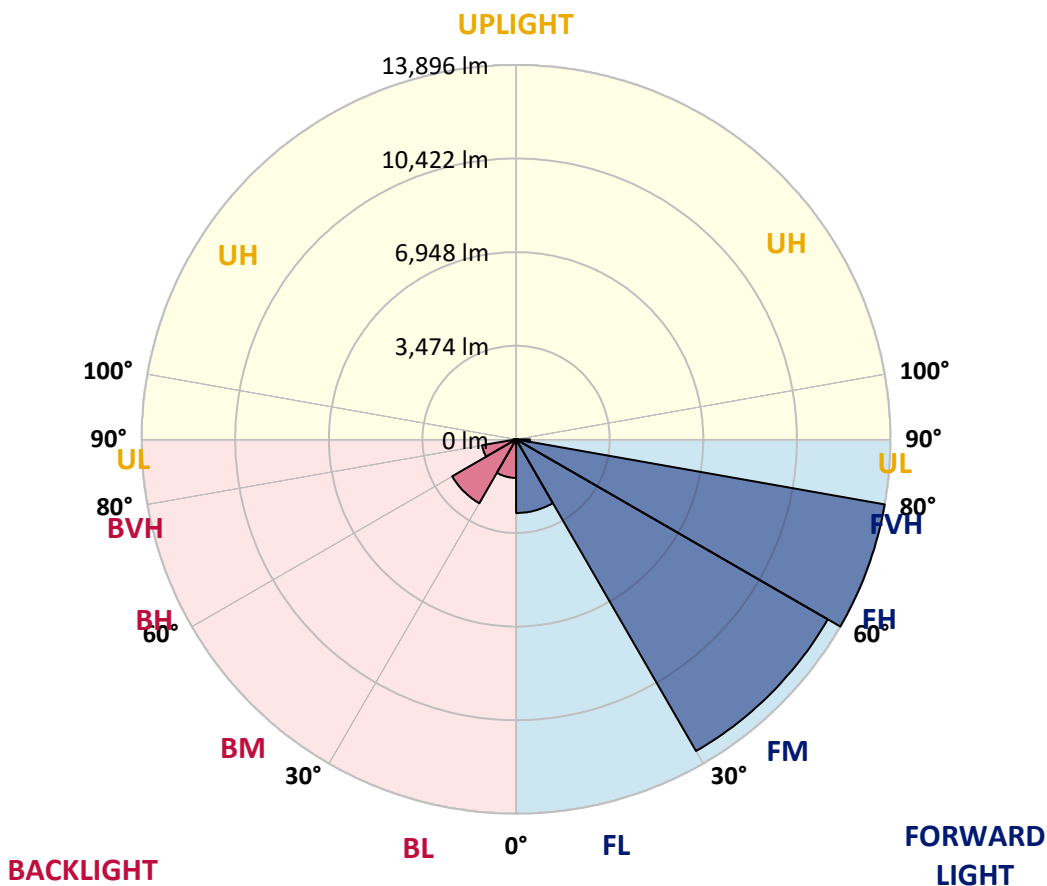
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2733.1	7.6			
FM (30°-60°)	13357.4	37.0			
FH (60°-80°)	13895.9	38.5			G5
FVH (80°-90°)	514.0	1.4			G4/750
BL (0°-30°)	1431.1	4.0	B3/2500		
BM (30°-60°)	2737.2	7.6	B3/5000		
BH (60°-80°)	1281.7	3.6	B3/2500		G3/2500
BVH (80°-90°)	103.2	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6122.3	6122.3	6122.3	6122.3	6122.3	6122.3	6122.3	6122.3	6122.3	6122.3	6122.3
2.5°	6160.0	6170.8	6178.8	6189.6	6184.2	6168.1	6181.5	6181.5	6151.9	6119.6	6090.0
5°	6168.1	6181.5	6178.8	6176.2	6154.6	6127.7	6127.7	6111.6	6060.4	6009.3	5960.9
7.5°	6151.9	6149.2	6146.6	6138.5	6114.3	6084.7	6079.3	6047.0	5979.7	5909.7	5839.8
10°	6079.3	6076.6	6084.7	6103.5	6098.1	6071.2	6071.2	6041.6	5963.6	5877.4	5785.9
12.5°	6020.1	6020.1	6052.4	6103.5	6122.3	6111.6	6114.3	6092.7	6003.9	5901.7	5794.0
15°	6028.1	6030.8	6100.8	6184.2	6219.2	6211.1	6213.8	6189.6	6090.0	5987.8	5842.5
17.5°	6082.0	6095.4	6216.5	6332.2	6378.0	6367.2	6348.4	6308.0	6195.0	6079.3	5901.7
20°	6195.0	6216.5	6372.6	6517.9	6571.8	6547.5	6515.2	6434.5	6310.7	6184.2	5966.2
22.5°	6418.4	6431.8	6604.0	6746.7	6789.7	6760.1	6695.5	6579.8	6437.2	6305.3	6044.3
25°	6733.2	6749.4	6913.5	7045.4	7034.6	6999.6	6910.8	6768.2	6598.7	6458.7	6157.3
27.5°	7107.3	7134.2	7295.7	7400.6	7330.7	7279.5	7179.9	7007.7	6816.6	6690.2	6329.5
30°	7516.3	7527.1	7664.4	7769.3	7661.7	7591.7	7470.6	7284.9	7112.7	7018.5	6587.9
32.5°	7911.9	7922.7	8041.1	8100.3	7987.3	7936.2	7831.2	7634.7	7513.6	7462.5	6972.7
35°	8329.1	8326.4	8423.3	8474.4	8358.7	8337.1	8229.5	8078.8	8057.3	8124.5	7535.2
37.5°	8746.2	8722.0	8773.1	8840.4	8775.8	8797.3	8727.4	8676.2	8759.6	8934.6	8283.3
40°	9079.9	9079.9	9133.7	9217.1	9238.7	9332.9	9292.5	9359.8	9628.9	10046.0	9209.1
42.5°	9375.9	9378.6	9491.6	9620.8	9776.9	9922.2	9954.5	10129.4	10686.5	11340.4	10371.6
45°	9685.4	9688.1	9841.5	10029.9	10360.9	10638.1	10702.6	11095.5	11892.1	12688.7	11633.8
47.5°	10043.3	10013.7	10226.3	10541.2	11012.1	11410.4	11577.3	12134.3	13140.8	14120.4	12823.3
50°	10447.0	10385.1	10621.9	11165.5	11746.8	12293.1	12573.0	13210.8	14481.0	15441.7	13942.8
52.5°	10901.8	10866.8	11114.4	11776.4	12664.5	13294.2	13673.7	14510.6	15783.5	16757.7	14830.8
55°	11466.9	11383.5	11741.4	12583.7	13740.9	14542.9	14992.3	15797.0	17207.1	17952.6	15509.0
57.5°	12085.9	11994.4	12473.4	13592.9	15140.3	16020.3	16582.8	17244.8	18547.3	18867.5	15907.3
60°	12753.3	12723.7	13291.5	14777.0	16808.8	17831.5	18237.8	18837.9	19712.6	19397.7	15807.7
62.5°	13364.2	13353.4	14179.6	16060.7	18576.9	19701.8	20024.7	20183.5	20552.2	19362.7	15016.5
65°	14007.4	14098.9	15215.7	17548.9	20603.3	21706.7	21841.3	21437.6	20834.8	18445.0	13396.5
67.5°	14088.1	14265.7	15866.9	18942.9	22524.8	23566.3	23458.6	21913.9	20000.5	15891.2	10500.8
70°	12599.9	12909.4	14828.2	19155.5	23878.4	24645.4	23867.7	20888.6	16973.0	11512.7	6604.0
72.5°	10527.7	10794.1	12489.6	16335.2	22131.9	23108.8	22056.5	17680.8	11994.4	6604.0	3363.9
75°	8194.5	8504.0	10067.5	12984.7	16569.3	16959.5	16432.1	12330.8	6593.3	2723.4	1528.6
77.5°	5000.1	5223.5	6439.9	8797.3	11593.4	11009.4	9330.2	6913.5	2893.0	1305.2	944.6
80°	2212.1	2349.4	3172.8	4725.6	6698.2	6332.2	4992.1	2952.2	1582.4	828.9	659.3
82.5°	1186.8	1275.6	1563.5	1870.3	2941.4	3076.0	2494.7	1700.8	850.4	473.6	376.8
85°	522.1	573.2	710.5	678.2	966.1	950.0	958.0	1168.0	406.4	218.0	244.9
87.5°	0.0	0.0	0.0	0.0	2.7	2.7	29.6	156.1	40.4	64.6	56.5
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°	6122.3	6122.3	6122.3	6122.3	6122.3	6122.3	6122.3	6122.3	6122.3	6122.3	6122.3
2.5°	6057.7	6009.3	5995.8	5979.7	5950.1	5899.0	5861.3	5818.2	5799.4	5777.9	5780.6
5°	5907.0	5847.8	5791.3	5718.7	5627.2	5524.9	5454.9	5374.2	5331.1	5290.8	5301.5
7.5°	5777.9	5686.4	5570.6	5417.3	5253.1	5070.1	4922.1	4806.4	4728.3	4674.5	4701.4
10°	5697.1	5589.5	5387.7	5137.4	4860.2	4580.3	4367.7	4168.6	4044.8	3947.9	3942.5
12.5°	5681.0	5541.0	5247.7	4884.4	4483.4	4109.4	3797.2	3528.1	3363.9	3242.8	3288.6
15°	5697.1	5519.5	5126.6	4650.3	4144.3	3638.4	3250.9	2941.4	2745.0	2634.6	2626.5
17.5°	5716.0	5498.0	4989.4	4397.3	3789.1	3210.5	2761.1	2432.8	2231.0	2120.6	2123.3
20°	5732.1	5465.7	4827.9	4120.1	3428.5	2812.2	2346.7	2034.5	1854.2	1773.5	1786.9
22.5°	5759.0	5433.4	4655.7	3824.1	3059.8	2427.4	2018.4	1765.4	1657.7	1603.9	1606.6
25°	5810.2	5414.6	4478.0	3501.2	2696.5	2120.6	1792.3	1622.8	1555.5	1523.2	1520.5
27.5°	5915.1	5430.7	4292.4	3189.0	2368.2	1886.5	1647.0	1536.6	1490.9	1469.4	1466.7
30°	6090.0	5495.3	4130.9	2871.4	2085.6	1703.5	1547.4	1480.1	1453.2	1434.4	1431.7
32.5°	6356.5	5616.4	3956.0	2575.4	1856.9	1568.9	1469.4	1434.4	1415.5	1404.8	1404.8
35°	6760.1	5837.1	3783.7	2317.1	1679.3	1464.0	1407.5	1394.0	1377.9	1372.5	1377.9
37.5°	7341.4	6189.6	3627.6	2091.0	1552.8	1383.2	1340.2	1345.6	1332.1	1340.2	1348.3
40°	8078.8	6660.6	3495.8	1905.3	1458.6	1324.0	1281.0	1299.8	1291.7	1299.8	1313.3
42.5°	9012.6	7244.5	3396.2	1760.0	1391.3	1275.6	1235.2	1254.1	1248.7	1259.5	1272.9
45°	10054.1	8014.2	3350.5	1657.7	1342.9	1240.6	1197.6	1211.0	1205.6	1213.7	1227.2
47.5°	11052.5	8713.9	3390.8	1598.5	1302.5	1211.0	1165.3	1170.6	1168.0	1165.3	1173.3
50°	11913.7	9271.0	3506.5	1579.7	1275.6	1181.4	1138.4	1141.0	1133.0	1116.8	1122.2
52.5°	12616.0	9717.7	3576.5	1579.7	1262.1	1149.1	1108.7	1111.4	1095.3	1073.8	1076.5
55°	13078.9	9898.0	3520.0	1577.0	1256.8	1122.2	1079.1	1081.8	1065.7	1038.8	1041.5
57.5°	13210.8	9723.1	3283.2	1547.4	1251.4	1100.7	1049.5	1054.9	1044.2	1014.6	1014.6
60°	12842.1	9082.6	2849.9	1480.1	1237.9	1087.2	1028.0	1036.1	1030.7	1001.1	1001.1
62.5°	11876.0	7944.2	2333.2	1377.9	1200.2	1071.1	1009.2	1025.3	1038.8	1022.6	1019.9
65°	10067.5	6364.5	1897.3	1264.8	1151.8	1044.2	982.3	1022.6	1052.2	1073.8	1073.8
67.5°	7554.0	4556.1	1547.4	1146.4	1079.1	990.3	947.3	985.0	1006.5	1019.9	1028.0
70°	4604.5	2680.4	1219.1	1009.2	974.2	909.6	877.3	839.6	810.0	804.6	807.3
72.5°	2252.5	1533.9	990.3	858.5	831.6	772.4	699.7	683.5	670.1	662.0	659.3
75°	1240.6	1068.4	818.1	713.2	664.7	592.0	575.9	549.0	543.6	532.8	535.5
77.5°	877.3	842.3	675.5	578.6	505.9	468.3	476.3	457.5	457.5	449.4	446.7
80°	659.3	662.0	519.4	422.5	374.1	360.6	368.7	368.7	363.3	360.6	357.9
82.5°	417.1	470.9	349.8	271.8	266.4	269.1	266.4	263.7	269.1	261.0	258.3
85°	288.0	339.1	212.6	161.5	161.5	158.8	164.2	161.5	166.9	158.8	158.8
87.5°	64.6	150.7	78.0	48.4	51.1	48.4	51.1	53.8	59.2	61.9	61.9
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)