

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: P637666

Luminaire Tested: GWS-SA4D-730-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P637666
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4D-730-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (64) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22125 lumens
Efficiency: N/A
Efficacy: 136.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

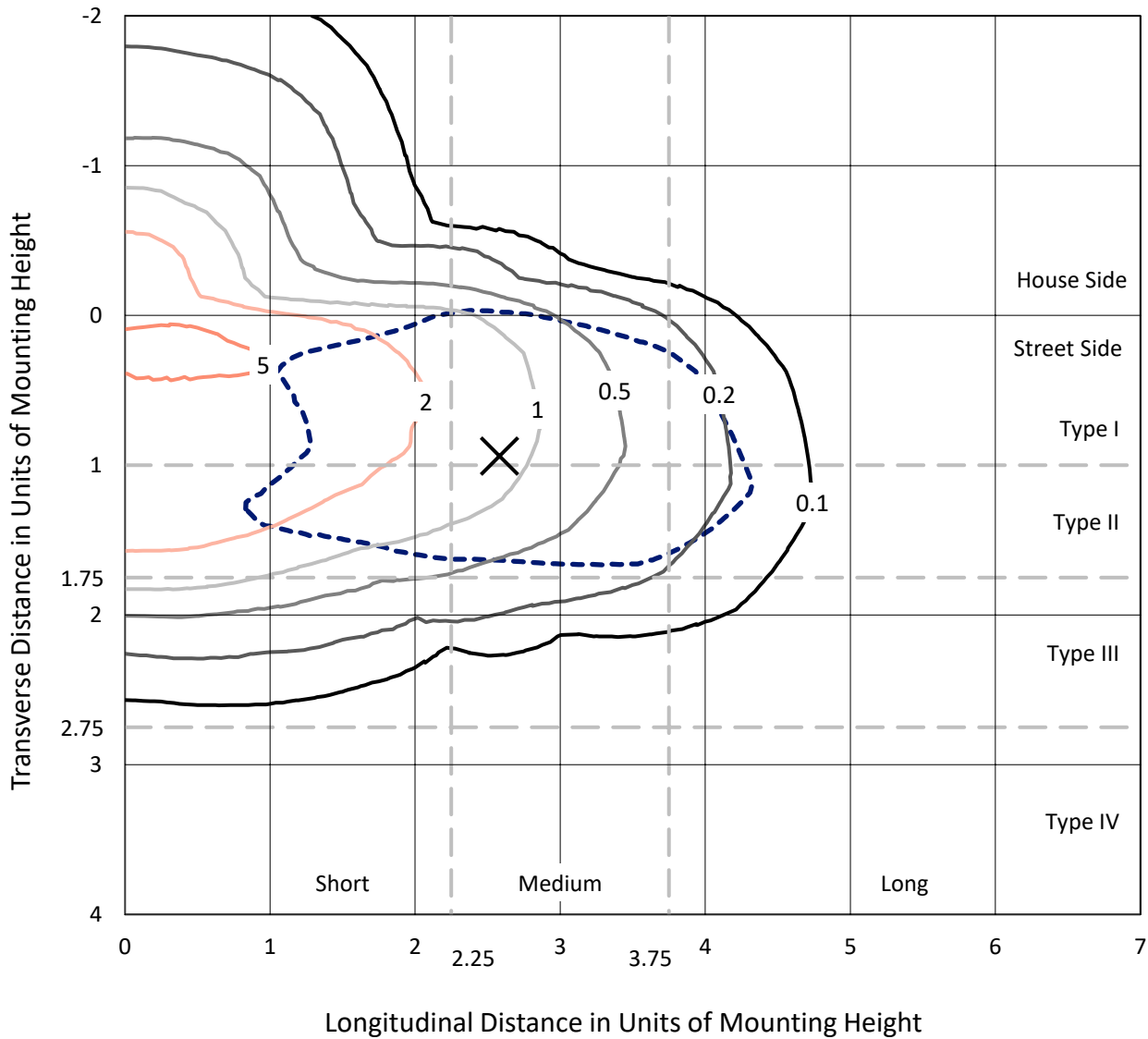
Input Watts (W): 162.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P637666
 CATALOG NUMBER: GWS-SA4D-730-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination

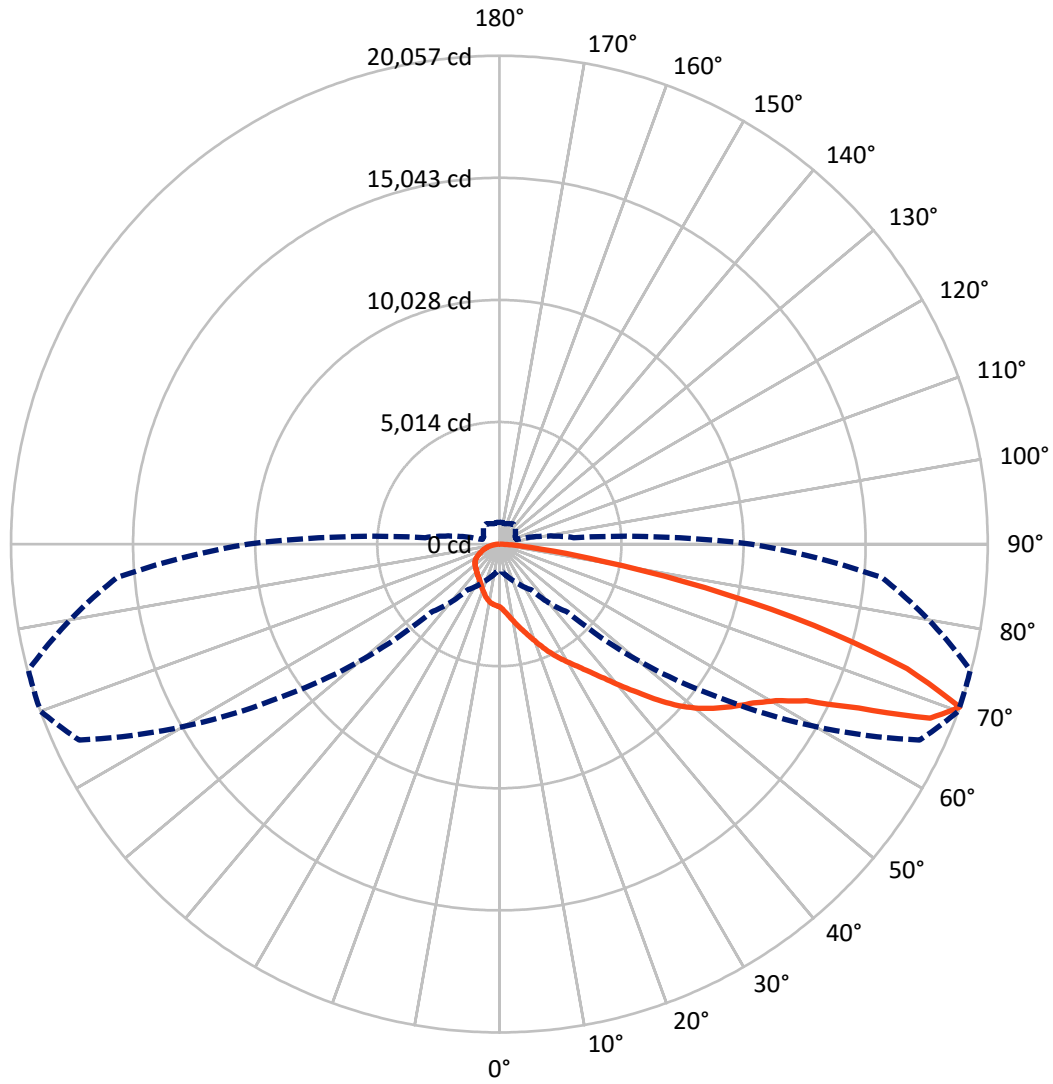
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type II - Medium - N/A

REPORT NUMBER: P637666
CATALOG NUMBER: GWS-SA4D-730-U-T2-W

Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3964.8	0.0	3964.8
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	18160.2	0.0	18160.2
	% Fixture	82.1	0.0	82.1
Total	Lumens	22125.0	0.0	22125.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.3	1.2
10°-20°	853.1	3.9
20°-30°	1511.3	6.8
30°-40°	2274.6	10.3
40°-50°	3441.1	15.6
50°-60°	4929.6	22.3
60°-70°	5449.1	24.6
70°-80°	3075.1	13.9
80°-90°	328.9	1.5
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°	22125.0	100.0
0°-180°	22125.0	100.0

Coefficient of Utilization



REPORT NUMBER: P637666

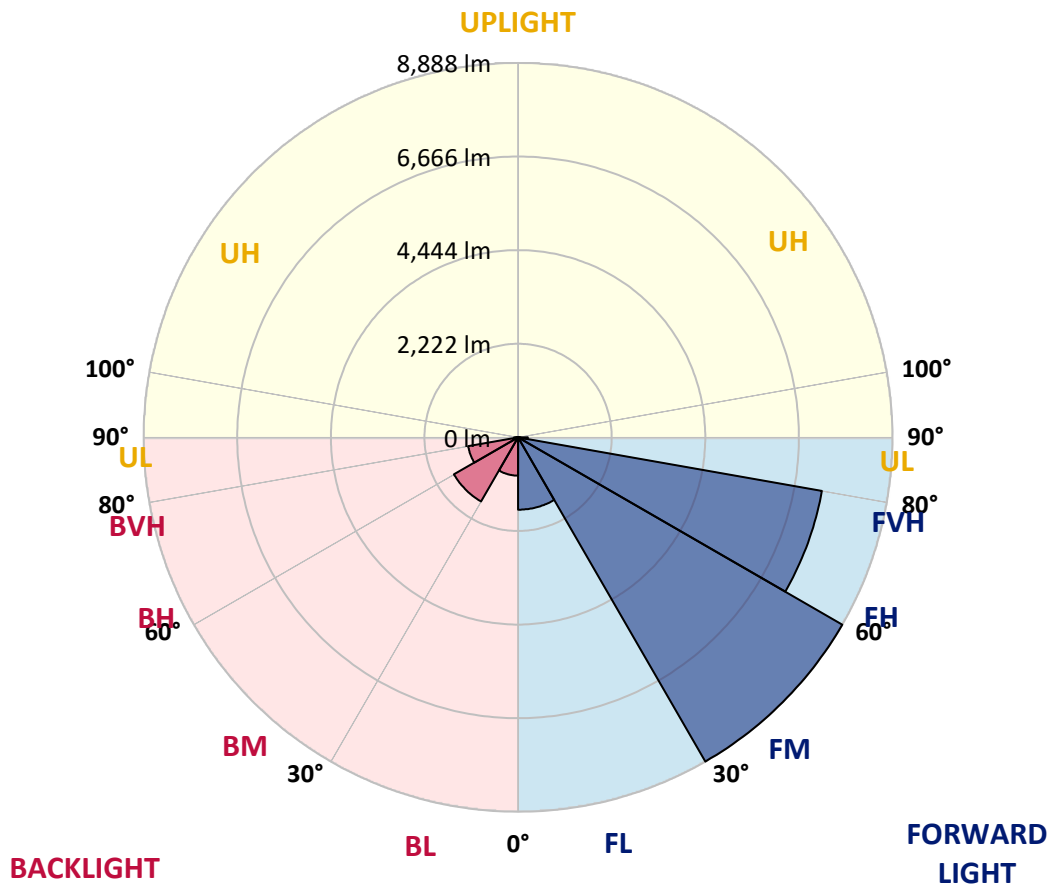
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1717.6	7.8			
FM (30°-60°)	8887.6	40.2			
FH (60°-80°)	7322.5	33.1			G3/7500
FVH (80°-90°)	232.5	1.1			G3/500
BL (0°-30°)	909.1	4.1	B2/1000		
BM (30°-60°)	1757.6	7.9	B2/2500		
BH (60°-80°)	1201.7	5.4	B3/2500		G3/2500
BVH (80°-90°)	96.4	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





REPORT NUMBER: P637666
 CATALOG NUMBER: GWS-SA4D-730-U-T2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2580.2	2580.2	2580.2	2580.2	2580.2	2580.2	2580.2	2580.2	2580.2	2580.2	2580.2
2.5°	2858.4	2853.6	2856.8	2853.6	2836.0	2792.9	2757.7	2712.9	2682.5	2665.0	2623.4
5°	3194.1	3189.3	3178.1	3162.1	3130.2	3071.0	2983.1	2885.6	2826.4	2781.7	2693.7
7.5°	3435.5	3435.5	3433.9	3414.7	3392.4	3330.0	3226.1	3098.2	3011.9	2935.1	2791.3
10°	3558.6	3566.6	3577.8	3605.0	3600.2	3566.6	3469.1	3331.6	3222.9	3133.4	2919.1
12.5°	3625.8	3630.6	3649.7	3705.7	3763.2	3771.2	3713.7	3569.8	3451.5	3331.6	3061.4
15°	3712.1	3713.7	3739.3	3806.4	3891.1	3975.9	3961.5	3817.6	3696.1	3563.4	3219.7
17.5°	3779.2	3790.4	3836.8	3915.1	4020.6	4137.3	4207.7	4118.1	3967.9	3816.0	3392.4
20°	3803.2	3811.2	3871.9	3991.8	4135.7	4300.4	4457.1	4433.1	4281.2	4102.2	3587.4
22.5°	3889.5	3889.5	3934.3	4035.0	4204.5	4444.3	4698.5	4760.8	4626.5	4417.1	3796.8
25°	4079.8	4073.4	4094.2	4135.7	4263.6	4559.4	4936.7	5123.7	4973.4	4738.4	4006.2
27.5°	4340.4	4337.2	4335.6	4342.0	4385.1	4660.1	5138.1	5462.6	5312.3	5047.0	4193.3
30°	4623.3	4613.7	4634.5	4615.3	4605.7	4780.0	5309.1	5766.4	5649.7	5352.3	4348.3
32.5°	5008.6	4991.0	4986.2	4923.9	4885.5	4967.0	5446.6	6111.7	6018.9	5681.6	4522.6
35°	5517.0	5501.0	5419.4	5320.3	5206.8	5245.2	5617.7	6449.0	6455.4	6094.1	4751.2
37.5°	6030.1	6033.3	5969.4	5736.0	5619.3	5596.9	5878.3	6859.8	6997.3	6586.5	5047.0
40°	6457.0	6476.2	6476.2	6230.0	6055.7	6034.9	6244.4	7347.4	7620.8	7190.8	5421.0
42.5°	6781.5	6799.1	6855.0	6677.6	6493.7	6565.7	6688.8	7836.6	8327.4	7937.3	5894.3
45°	7138.0	7152.4	7182.8	7080.5	6973.3	7165.2	7192.4	8421.7	9136.3	8775.0	6444.2
47.5°	7611.2	7598.4	7601.6	7526.5	7443.3	7753.5	7747.1	8914.1	9918.1	9692.7	7040.5
50°	8199.5	8223.5	8201.1	8052.4	7954.9	8237.9	8274.7	9459.3	10605.5	10600.7	7641.6
52.5°	8765.4	8775.0	8893.3	8899.7	8699.9	8640.7	8736.7	10009.2	11185.8	11432.0	8218.7
55°	8794.2	8831.0	9185.9	9441.7	9764.6	9289.8	9203.5	10533.6	11746.9	12245.7	8818.2
57.5°	8181.9	8241.1	8843.8	9395.3	10293.8	10404.1	10002.8	11211.4	12308.1	13046.6	9512.0
60°	6874.2	6997.3	7815.8	8659.9	10055.6	11205.0	11638.2	12132.2	13045.0	13865.2	10354.5
62.5°	4389.9	4437.9	5585.7	6998.9	8982.9	11126.7	13419.1	13754.8	14167.3	14931.5	11652.6
65°	2198.2	2351.6	3024.7	4177.3	6477.8	9804.6	14319.2	16726.8	16221.6	16757.1	13756.4
67.5°	1491.5	1541.1	1881.6	2509.9	3798.4	6946.2	13761.2	19230.3	19081.6	19169.5	15999.4
70°	1099.9	1131.8	1400.4	1777.7	2297.3	3943.9	10955.6	19041.6	20056.8	20024.8	15764.4
72.5°	802.5	818.5	1021.5	1357.3	1702.6	2039.9	6690.4	15382.3	17508.5	18430.9	13786.8
75°	583.5	602.7	709.8	1015.1	1323.7	1272.5	3302.8	11110.7	13352.0	15126.5	11232.2
77.5°	434.8	458.8	508.4	636.3	927.2	911.2	1427.6	7214.7	8635.9	9879.7	6823.1
80°	313.3	318.1	346.9	407.7	588.3	534.0	679.4	3761.6	4313.2	4725.6	2674.6
82.5°	190.2	195.0	231.8	251.0	364.5	335.7	353.3	1218.2	1745.7	1852.8	999.2
85°	56.0	59.2	105.5	115.1	151.9	143.9	142.3	495.6	591.5	756.2	393.3
87.5°	0.0	0.0	0.0	0.0	1.6	9.6	17.6	87.9	132.7	183.8	95.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P637666
 CATALOG NUMBER: GWS-SA4D-730-U-T2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2580.2	2580.2	2580.2	2580.2	2580.2	2580.2	2580.2	2580.2	2580.2	2580.2	2580.2
2.5°	2607.4	2570.6	2551.5	2517.9	2493.9	2469.9	2445.9	2423.6	2414.0	2399.6	2402.8
5°	2653.8	2596.2	2538.7	2473.1	2417.2	2370.8	2329.2	2292.5	2276.5	2262.1	2268.5
7.5°	2724.1	2637.8	2527.5	2407.6	2319.7	2255.7	2212.5	2187.0	2179.0	2167.8	2167.8
10°	2813.6	2684.1	2490.7	2319.7	2214.1	2163.0	2143.8	2142.2	2150.2	2151.8	2148.6
12.5°	2912.8	2728.9	2436.4	2215.7	2126.2	2110.2	2124.6	2151.8	2179.0	2193.4	2190.2
15°	3015.1	2757.7	2343.6	2116.6	2062.3	2083.1	2129.4	2183.8	2236.5	2263.7	2262.1
17.5°	3111.0	2764.1	2223.7	2020.7	2006.3	2059.1	2139.0	2223.7	2295.7	2334.0	2335.6
20°	3218.1	2752.9	2100.6	1934.4	1950.4	2036.7	2142.2	2244.5	2329.2	2367.6	2377.2
22.5°	3315.6	2714.5	1980.7	1852.8	1902.4	2009.5	2116.6	2212.5	2287.7	2324.4	2337.2
25°	3403.5	2641.0	1849.6	1784.1	1865.6	1971.1	2052.7	2119.8	2172.6	2195.0	2212.5
27.5°	3451.5	2530.7	1750.5	1729.7	1830.5	1916.8	1961.6	1982.3	1999.9	1993.5	2006.3
30°	3461.1	2393.2	1664.2	1686.6	1777.7	1841.7	1851.2	1830.5	1800.1	1750.5	1761.7
32.5°	3451.5	2234.9	1592.3	1640.2	1718.6	1756.9	1744.1	1689.8	1616.2	1539.5	1544.3
35°	3454.7	2075.1	1533.1	1589.1	1649.8	1670.6	1638.6	1563.5	1485.2	1414.8	1411.6
37.5°	3489.9	1940.8	1483.6	1539.5	1582.7	1585.9	1550.7	1472.4	1432.4	1379.6	1373.2
40°	3587.4	1841.7	1438.8	1489.9	1517.1	1515.5	1475.6	1419.6	1446.8	1429.2	1424.4
42.5°	3747.3	1780.9	1402.0	1437.2	1456.4	1459.6	1427.6	1392.4	1451.6	1429.2	1421.2
45°	4004.6	1777.7	1376.4	1384.4	1414.8	1437.2	1414.8	1374.8	1397.2	1288.5	1267.7
47.5°	4310.0	1832.1	1357.3	1338.1	1390.8	1430.8	1395.6	1331.7	1285.3	1186.2	1171.8
50°	4677.7	1942.4	1339.7	1288.5	1355.7	1406.8	1371.6	1283.7	1213.4	1160.6	1152.6
52.5°	5114.1	2087.8	1317.3	1232.6	1302.9	1394.0	1371.6	1278.9	1186.2	1138.2	1130.3
55°	5571.3	2255.7	1291.7	1165.4	1243.8	1397.2	1382.8	1245.4	1165.4	1139.8	1133.4
57.5°	6138.8	2457.1	1245.4	1087.1	1191.0	1368.5	1338.1	1226.2	1151.0	1130.3	1123.9
60°	6875.8	2756.1	1157.4	1007.2	1130.3	1317.3	1298.1	1194.2	1112.7	1095.1	1090.3
62.5°	8042.8	3262.9	1050.3	930.4	1058.3	1210.2	1239.0	1133.4	1064.7	1063.1	1061.5
65°	9945.2	3871.9	924.0	861.7	983.2	1122.3	1160.6	1071.1	1015.1	1032.7	1031.1
67.5°	11278.5	3924.7	820.1	789.7	895.2	1026.3	1082.3	1007.2	946.4	980.0	978.4
70°	10330.5	3061.4	730.6	714.6	800.9	922.4	997.6	927.2	866.5	898.4	892.1
72.5°	8712.7	2346.8	645.9	636.3	705.0	813.7	888.9	847.3	783.3	783.3	769.0
75°	7002.1	1936.0	556.3	551.5	597.9	703.4	788.1	717.8	658.6	655.4	645.9
77.5°	4015.8	1269.3	466.8	463.6	478.0	588.3	612.3	597.9	553.1	532.4	526.0
80°	1600.3	660.2	367.7	346.9	361.3	431.6	482.8	458.8	420.4	394.9	380.5
82.5°	620.3	330.9	259.0	227.0	247.8	311.7	350.1	342.1	316.5	259.0	243.0
85°	252.6	161.5	155.1	131.1	143.9	167.9	201.4	174.3	143.9	102.3	97.5
87.5°	67.1	59.2	57.6	35.2	27.2	8.0	1.6	0.0	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)