

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: P642451

Luminaire Tested: GWS-SA6C-830-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642451
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-SA6C-830-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (96) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22379.4 lumens
Efficiency: N/A
Efficacy: 118.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

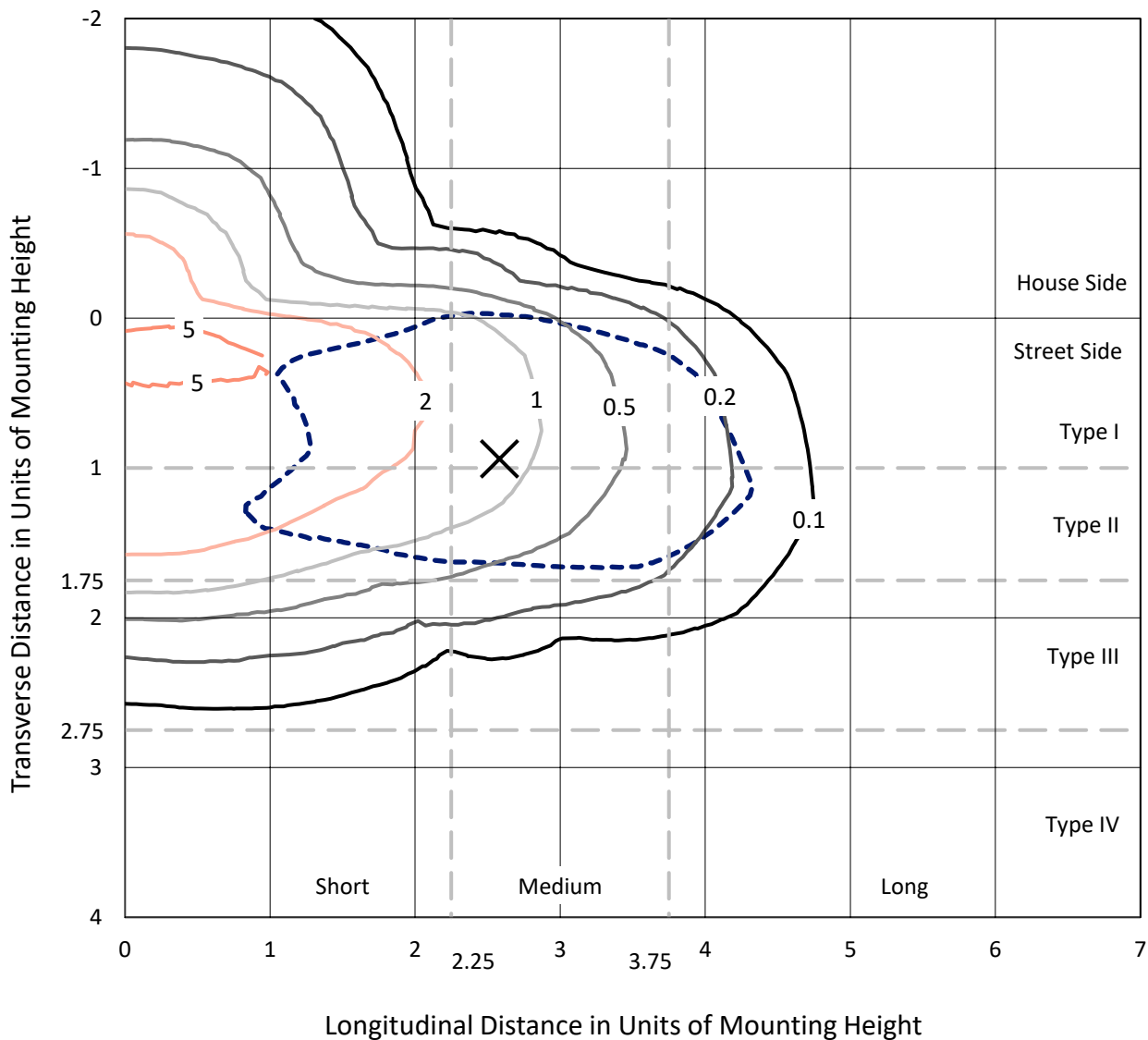
Input Watts (W): 189.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

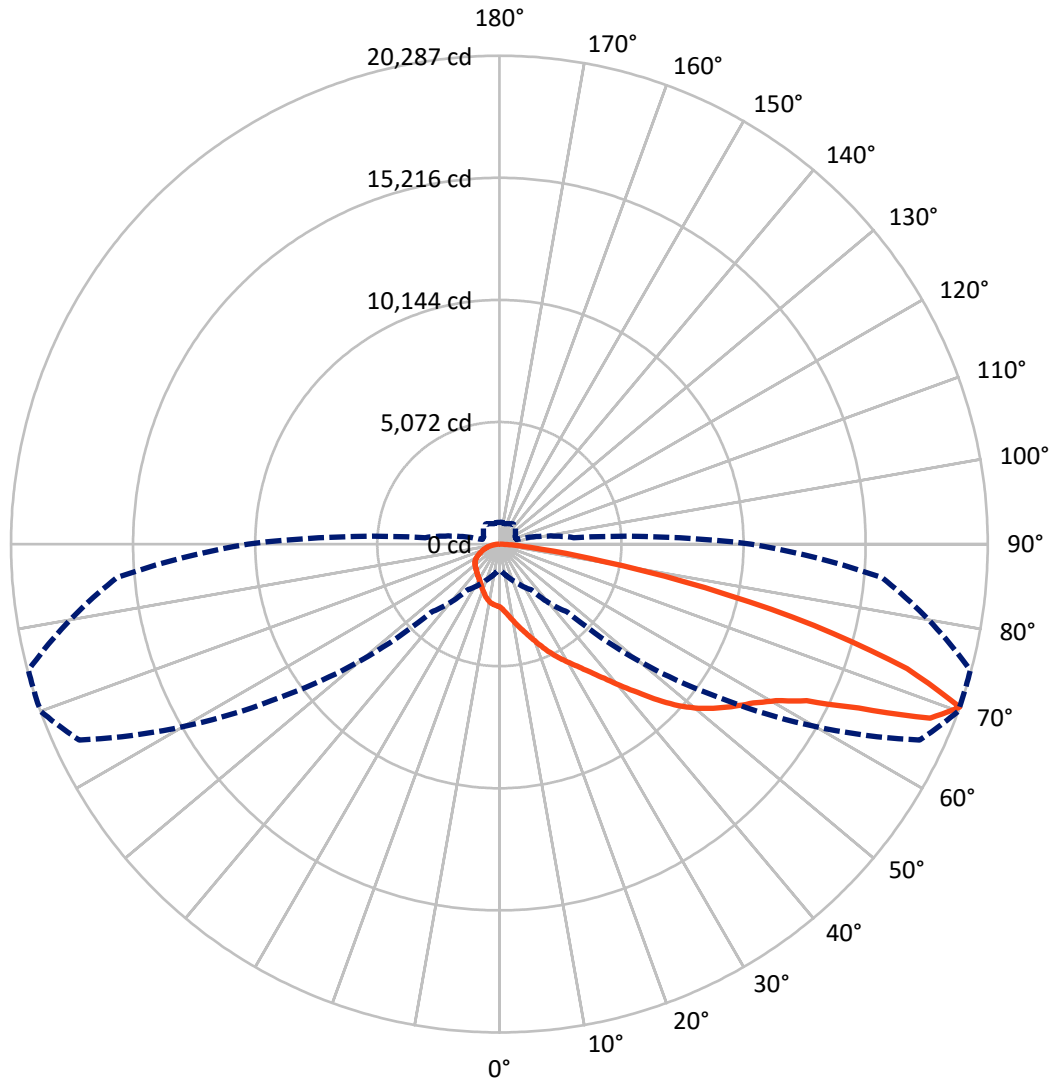
✕ Max cd
 - - - 1/2 Max cd



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

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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	4010.4	0.0	4010.4
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	18368.9	0.0	18368.9
	% Fixture	82.1	0.0	82.1
Total	Lumens	22379.4	0.0	22379.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.3	1.2
10°-20°	862.9	3.9
20°-30°	1528.7	6.8
30°-40°	2300.7	10.3
40°-50°	3480.7	15.6
50°-60°	4986.3	22.3
60°-70°	5511.8	24.6
70°-80°	3110.4	13.9
80°-90°	332.7	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°	22379.4	100.0
0°-180°	22379.4	100.0

Coefficient of Utilization



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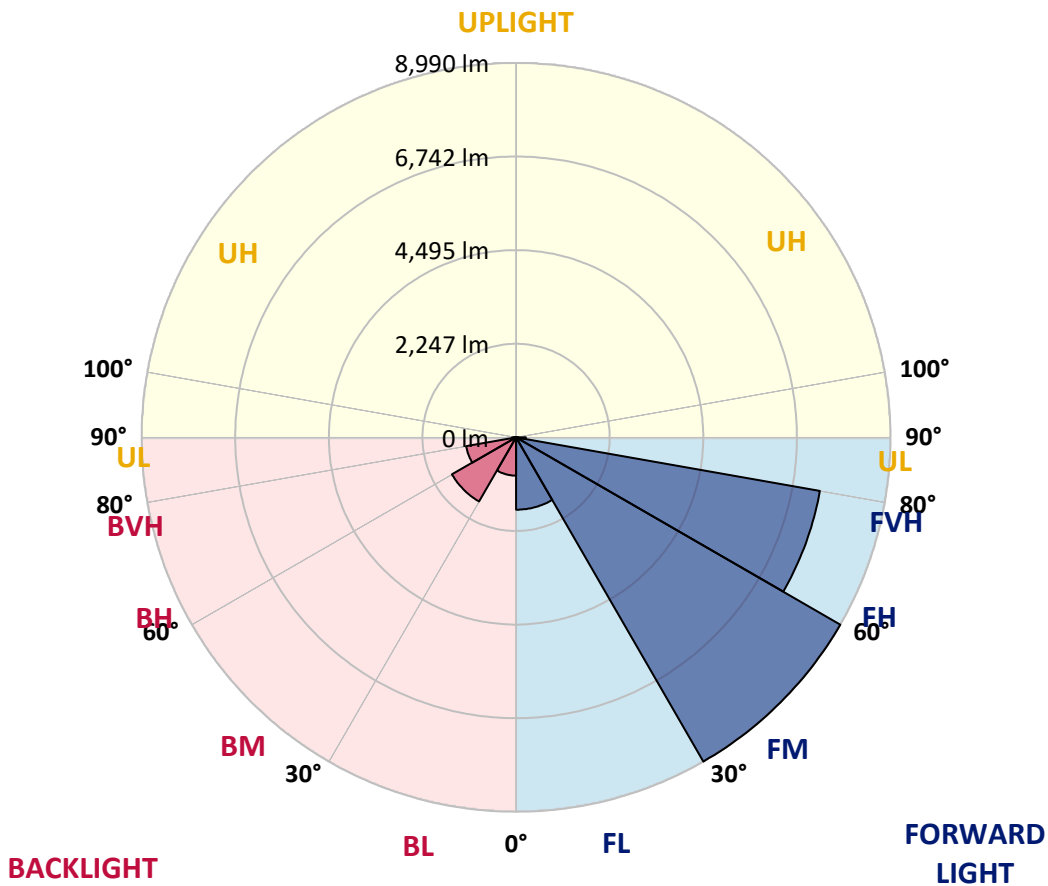
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1737.3	7.8			
FM (30°-60°)	8989.8	40.2			
FH (60°-80°)	7406.6	33.1			G3/7500
FVH (80°-90°)	235.2	1.1			G3/500
BL (0°-30°)	919.5	4.1	B2/1000		
BM (30°-60°)	1777.9	7.9	B2/2500		
BH (60°-80°)	1215.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	97.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9
2.5°	2891.3	2886.4	2889.6	2886.4	2868.6	2825.0	2789.4	2744.1	2713.4	2695.6	2653.6
5°	3230.8	3226.0	3214.7	3198.5	3166.2	3106.3	3017.4	2918.8	2858.9	2813.6	2724.7
7.5°	3475.0	3475.0	3473.4	3454.0	3431.4	3368.3	3263.2	3133.8	3046.5	2968.9	2823.4
10°	3599.5	3607.6	3618.9	3646.4	3641.6	3607.6	3509.0	3369.9	3260.0	3169.4	2952.7
12.5°	3667.4	3672.3	3691.7	3748.3	3806.5	3814.6	3756.4	3610.8	3491.2	3369.9	3096.6
15°	3754.8	3756.4	3782.3	3850.2	3935.9	4021.6	4007.0	3861.5	3738.6	3604.4	3256.7
17.5°	3822.7	3834.0	3880.9	3960.1	4066.9	4184.9	4256.0	4165.5	4013.5	3859.9	3431.4
20°	3846.9	3855.0	3916.5	4037.7	4183.3	4349.8	4508.3	4484.1	4330.4	4149.3	3628.6
22.5°	3934.3	3934.3	3979.5	4081.4	4252.8	4495.4	4752.5	4815.5	4679.7	4467.9	3840.5
25°	4126.7	4120.2	4141.2	4183.3	4312.6	4611.8	4993.4	5182.6	5030.6	4792.9	4052.3
27.5°	4390.3	4387.0	4385.4	4391.9	4435.5	4713.7	5197.2	5525.4	5373.4	5105.0	4241.5
30°	4676.5	4666.8	4687.8	4668.4	4658.7	4834.9	5370.2	5832.7	5714.6	5413.8	4398.3
32.5°	5066.2	5048.4	5043.5	4980.5	4941.7	5024.1	5509.3	6181.9	6088.2	5747.0	4574.6
35°	5580.4	5564.2	5481.8	5381.5	5266.7	5305.5	5682.3	6523.1	6529.6	6164.2	4805.8
37.5°	6099.5	6102.7	6038.0	5801.9	5683.9	5661.3	5945.9	6938.7	7077.8	6662.2	5105.0
40°	6531.2	6550.6	6550.6	6301.6	6125.3	6104.3	6316.2	7431.9	7708.4	7273.4	5483.4
42.5°	6859.5	6877.3	6933.9	6754.4	6568.4	6641.2	6765.7	7926.7	8423.2	8028.6	5962.0
45°	7220.1	7234.6	7265.4	7161.9	7053.5	7247.6	7275.1	8518.6	9241.4	8875.9	6518.3
47.5°	7698.7	7685.8	7689.0	7613.0	7528.9	7842.6	7836.2	9016.6	10032.1	9804.1	7121.4
50°	8293.8	8318.1	8295.4	8145.0	8046.4	8332.6	8369.8	9568.0	10727.4	10722.6	7729.4
52.5°	8866.2	8875.9	8995.6	9002.1	8799.9	8740.1	8837.1	10124.3	11314.4	11563.4	8313.2
55°	8895.3	8932.5	9291.5	9550.2	9876.9	9396.6	9309.3	10654.7	11882.0	12386.5	8919.6
57.5°	8276.0	8335.8	8945.5	9503.3	10412.1	10523.7	10117.8	11340.3	12449.6	13196.7	9621.4
60°	6953.3	7077.8	7905.7	8759.5	10171.2	11333.8	11772.0	12271.7	13195.0	14024.6	10473.6
62.5°	4440.4	4488.9	5649.9	7079.4	9086.1	11254.6	13573.4	13913.0	14330.2	15103.1	11786.6
65°	2223.4	2378.7	3059.4	4225.3	6552.2	9917.3	14483.8	16919.1	16408.1	16949.8	13914.6
67.5°	1508.7	1558.8	1903.3	2538.8	3842.1	7026.0	13919.5	19451.4	19301.0	19389.9	16183.3
70°	1112.5	1144.9	1416.5	1798.1	2323.7	3989.2	11081.6	19260.6	20287.4	20255.0	15945.6
72.5°	811.8	827.9	1033.3	1372.9	1722.1	2063.3	6767.3	15559.2	17709.8	18642.8	13945.3
75°	590.2	609.6	718.0	1026.8	1338.9	1287.2	3340.8	11238.4	13505.5	15300.4	11361.3
77.5°	439.8	464.1	514.2	643.6	937.9	921.7	1444.0	7297.7	8735.2	9993.3	6901.5
80°	316.9	321.8	350.9	412.3	595.1	540.1	687.2	3804.9	4362.8	4780.0	2705.3
82.5°	192.4	197.3	234.5	253.9	368.7	339.6	357.4	1232.2	1765.8	1874.1	1010.6
85°	56.6	59.8	106.7	116.4	153.6	145.5	143.9	501.3	598.3	764.9	397.8
87.5°	0.0	0.0	0.0	0.0	1.6	9.7	17.8	88.9	134.2	186.0	97.0
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°	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9	2609.9
2.5°	2637.4	2600.2	2580.8	2546.8	2522.6	2498.3	2474.1	2451.4	2441.7	2427.2	2430.4
5°	2684.3	2626.1	2567.9	2501.6	2445.0	2398.1	2356.0	2318.8	2302.7	2288.1	2294.6
7.5°	2755.4	2668.1	2556.5	2435.3	2346.3	2281.6	2238.0	2212.1	2204.0	2192.7	2192.7
10°	2846.0	2715.0	2519.3	2346.3	2239.6	2187.9	2168.4	2166.8	2174.9	2176.5	2173.3
12.5°	2946.2	2760.3	2464.4	2241.2	2150.7	2134.5	2149.0	2176.5	2204.0	2218.6	2215.3
15°	3049.7	2789.4	2370.6	2141.0	2086.0	2107.0	2153.9	2208.9	2262.2	2289.7	2288.1
17.5°	3146.8	2795.9	2249.3	2043.9	2029.4	2082.7	2163.6	2249.3	2322.1	2360.9	2362.5
20°	3255.1	2784.5	2124.8	1956.6	1972.8	2060.1	2166.8	2270.3	2356.0	2394.8	2404.5
22.5°	3353.7	2745.7	2003.5	1874.1	1924.3	2032.6	2141.0	2238.0	2314.0	2351.2	2364.1
25°	3442.7	2671.3	1870.9	1804.6	1887.1	1993.8	2076.3	2144.2	2197.6	2220.2	2238.0
27.5°	3491.2	2559.8	1770.7	1749.6	1851.5	1938.8	1984.1	2005.1	2022.9	2016.4	2029.4
30°	3500.9	2420.7	1683.3	1706.0	1798.1	1862.8	1872.5	1851.5	1820.8	1770.7	1782.0
32.5°	3491.2	2260.6	1610.6	1659.1	1738.3	1777.1	1764.2	1709.2	1634.8	1557.2	1562.1
35°	3494.4	2098.9	1550.7	1607.3	1668.8	1689.8	1657.5	1581.5	1502.2	1431.1	1427.8
37.5°	3530.0	1963.1	1500.6	1557.2	1600.9	1604.1	1568.5	1489.3	1448.9	1395.5	1389.0
40°	3628.6	1862.8	1455.3	1507.1	1534.6	1533.0	1492.5	1435.9	1463.4	1445.6	1440.8
42.5°	3790.3	1801.4	1418.1	1453.7	1473.1	1476.4	1444.0	1408.4	1468.3	1445.6	1437.5
45°	4050.7	1798.1	1392.3	1400.4	1431.1	1453.7	1431.1	1390.7	1413.3	1303.3	1282.3
47.5°	4359.5	1853.1	1372.9	1353.5	1406.8	1447.3	1411.7	1347.0	1300.1	1199.8	1185.3
50°	4731.5	1964.7	1355.1	1303.3	1371.2	1423.0	1387.4	1298.5	1227.3	1174.0	1165.9
52.5°	5172.9	2111.9	1332.4	1246.7	1317.9	1410.1	1387.4	1293.6	1199.8	1151.3	1143.2
55°	5635.4	2281.6	1306.6	1178.8	1258.1	1413.3	1398.7	1259.7	1178.8	1152.9	1146.5
57.5°	6209.4	2485.4	1259.7	1099.6	1204.7	1384.2	1353.5	1240.3	1164.3	1143.2	1136.8
60°	6954.9	2787.8	1170.7	1018.7	1143.2	1332.4	1313.0	1207.9	1125.5	1107.7	1102.8
62.5°	8135.3	3300.4	1062.4	941.1	1070.5	1224.1	1253.2	1146.5	1076.9	1075.3	1073.7
65°	10059.6	3916.5	934.6	871.6	994.5	1135.2	1174.0	1083.4	1026.8	1044.6	1043.0
67.5°	11408.2	3969.8	829.5	798.8	905.5	1038.1	1094.7	1018.7	957.3	991.2	989.6
70°	10449.3	3096.6	739.0	722.8	810.1	933.0	1009.0	937.9	876.4	908.8	902.3
72.5°	8812.9	2373.8	653.3	643.6	713.1	823.1	899.1	857.0	792.3	792.3	777.8
75°	7082.6	1958.2	562.7	557.9	604.8	711.5	797.2	726.1	666.2	663.0	653.3
77.5°	4062.0	1283.9	472.2	468.9	483.5	595.1	619.3	604.8	559.5	538.5	532.0
80°	1618.7	667.8	371.9	350.9	365.5	436.6	488.3	464.1	425.3	399.4	384.9
82.5°	627.4	334.7	262.0	229.6	250.6	315.3	354.1	346.0	320.2	262.0	245.8
85°	255.5	163.3	156.9	132.6	145.5	169.8	203.7	176.3	145.5	103.5	98.6
87.5°	67.9	59.8	58.2	35.6	27.5	8.1	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)