

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: P641681

Luminaire Tested: GWS-SA6B-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641681
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-SA6B-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20718.5 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

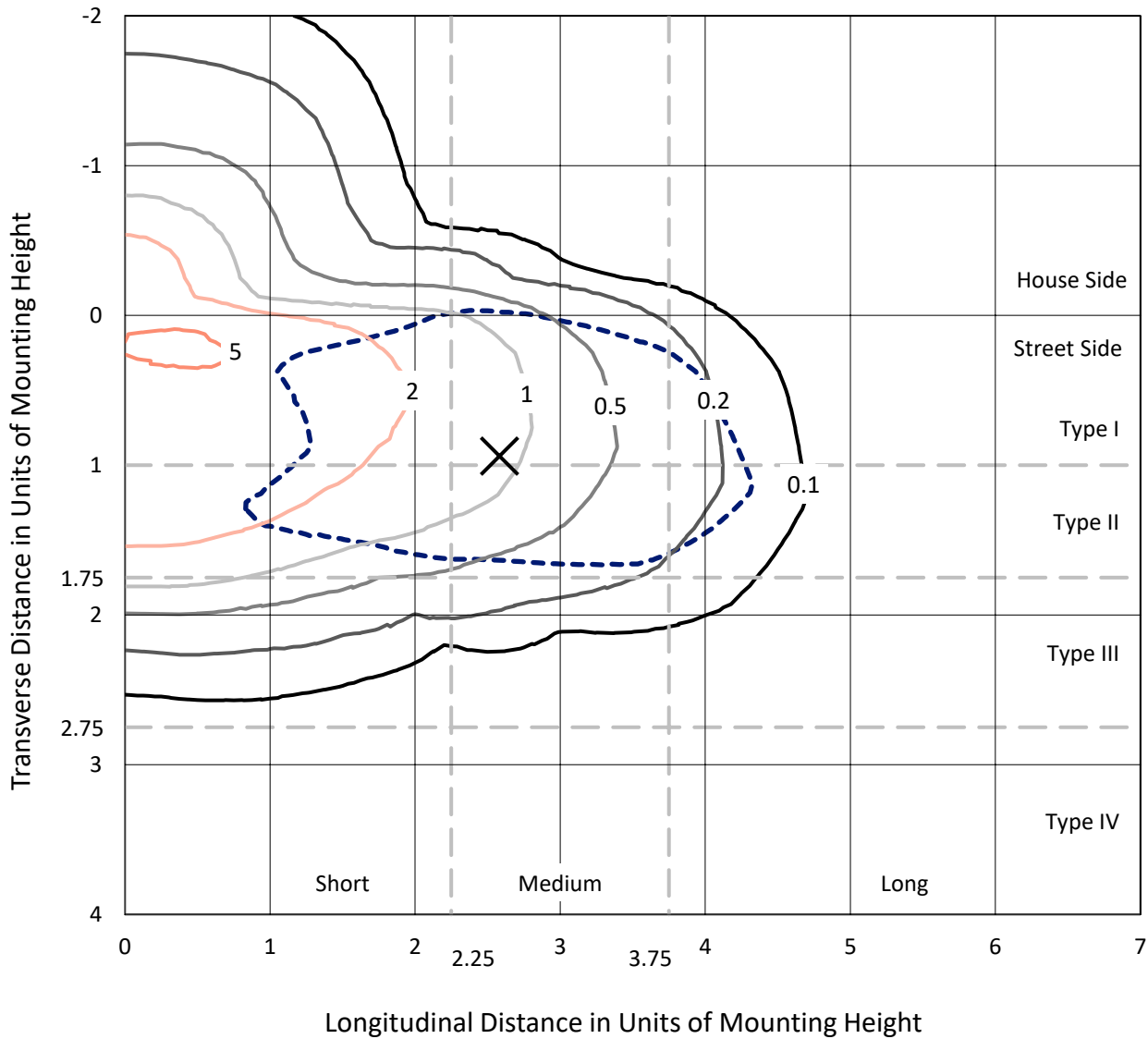
Input Watts (W): 138.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P641681
 CATALOG NUMBER: GWS-SA6B-735-U-T2-W

Iso-Footcandle Lines of Horizontal Illumination

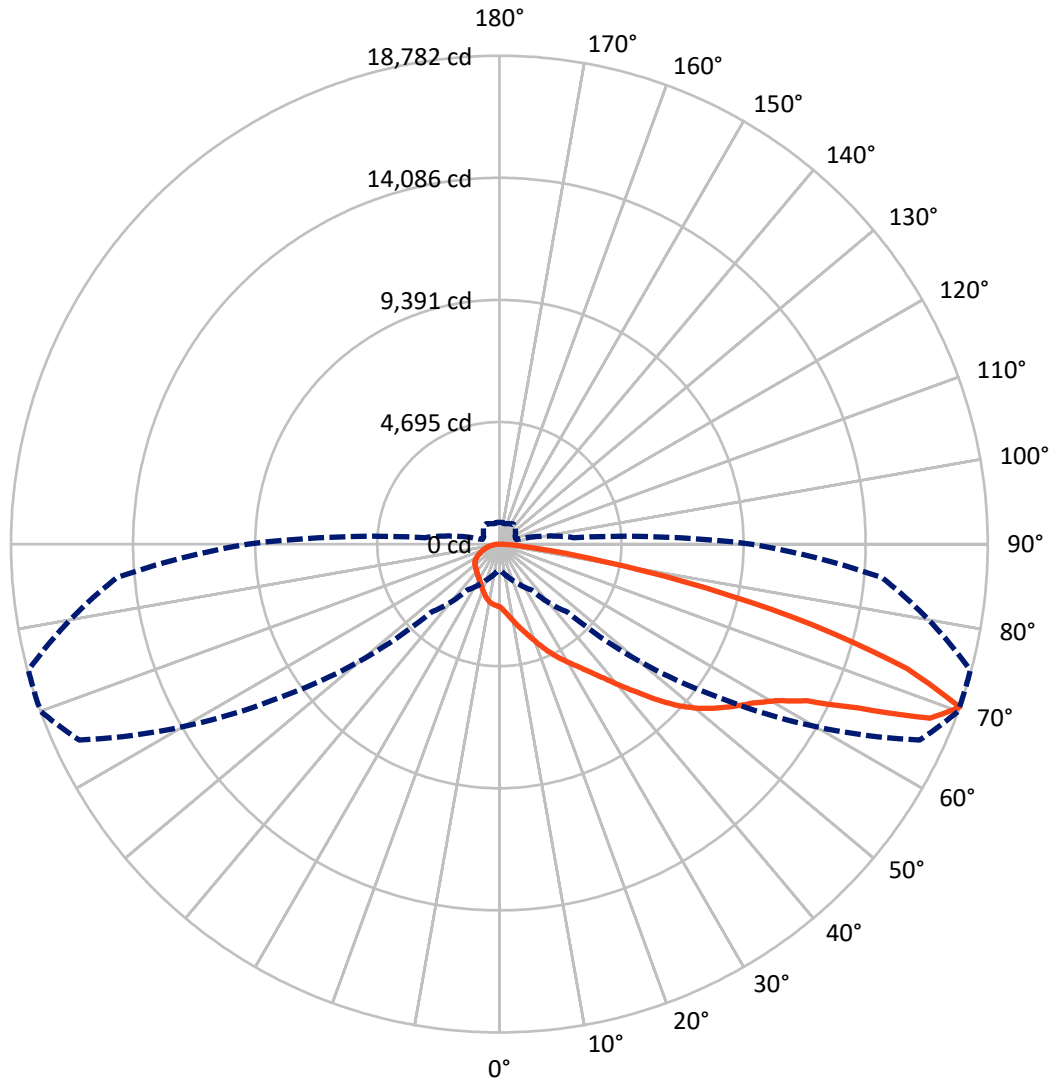
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc
 Type II - Medium - N/A

REPORT NUMBER: P641681
CATALOG NUMBER: GWS-SA6B-735-U-T2-W

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GWS-SA6B-735-U-T2-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3712.8	0.0	3712.8
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	17005.7	0.0	17005.7
	% Fixture	82.1	0.0	82.1
Total	Lumens	20718.5	0.0	20718.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	245.6	1.2
10°-20°	798.9	3.9
20°-30°	1415.2	6.8
30°-40°	2130.0	10.3
40°-50°	3222.4	15.6
50°-60°	4616.2	22.3
60°-70°	5102.7	24.6
70°-80°	2879.6	13.9
80°-90°	308.0	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°	20718.5	100.0
0°-180°	20718.5	100.0

Coefficient of Utilization



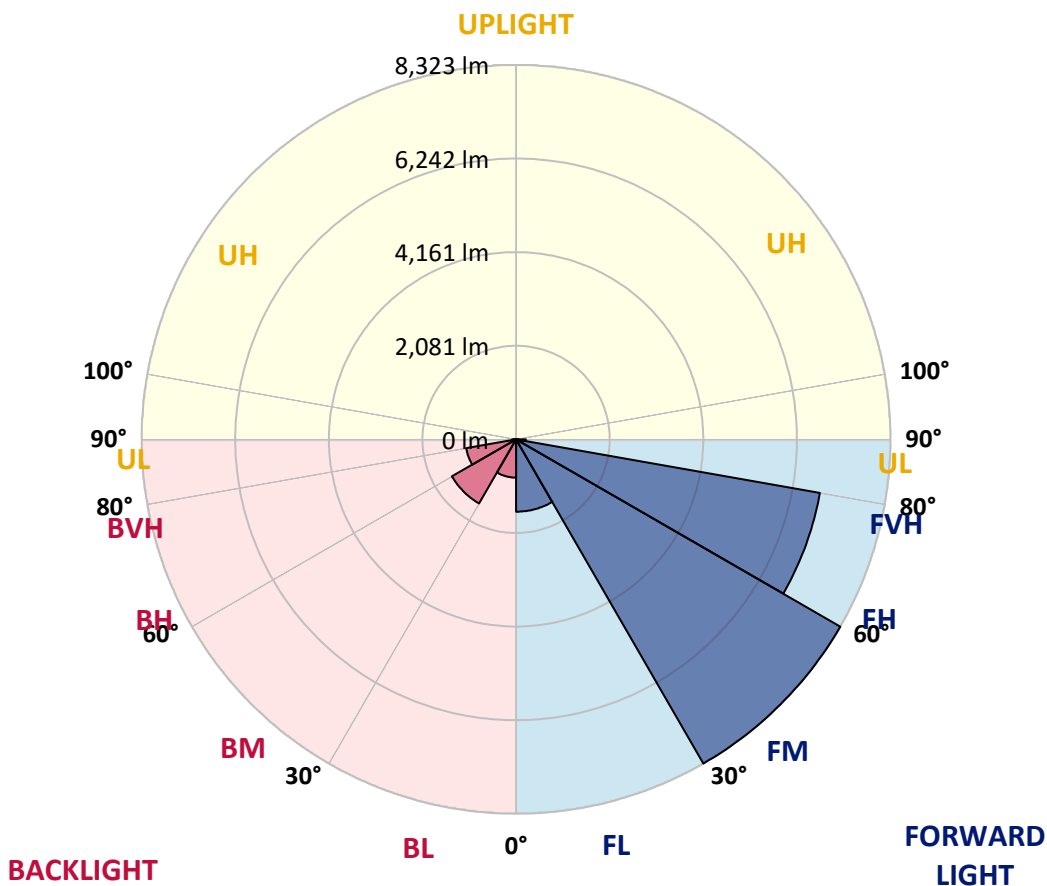
REPORT NUMBER: P641681

CATALOG NUMBER: GWS-SA6B-735-U-T2-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1608.4	7.8			
FM (30°-60°)	8322.6	40.2			
FH (60°-80°)	6857.0	33.1			G3/7500
FVH (80°-90°)	217.7	1.1			G2/225
BL (0°-30°)	851.3	4.1	B2/1000		
BM (30°-60°)	1645.9	7.9	B2/2500		
BH (60°-80°)	1125.3	5.4	B3/2500		G3/2500
BVH (80°-90°)	90.3	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: P641681
 CATALOG NUMBER: GWS-SA6B-735-U-T2-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2416.2	2416.2	2416.2	2416.2	2416.2	2416.2	2416.2	2416.2	2416.2	2416.2	2416.2
2.5°	2676.7	2672.2	2675.2	2672.2	2655.7	2615.3	2582.4	2540.5	2512.0	2495.5	2456.6
5°	2991.1	2986.6	2976.1	2961.1	2931.2	2875.8	2793.5	2702.1	2646.7	2604.8	2522.5
7.5°	3217.1	3217.1	3215.6	3197.7	3176.7	3118.3	3021.0	2901.2	2820.4	2748.5	2613.8
10°	3332.4	3339.9	3350.4	3375.8	3371.3	3339.9	3248.6	3119.8	3018.0	2934.2	2733.6
12.5°	3395.3	3399.8	3417.7	3470.1	3524.0	3531.5	3477.6	3342.9	3232.1	3119.8	2866.8
15°	3476.1	3477.6	3501.6	3564.4	3643.8	3723.1	3709.6	3574.9	3461.1	3336.9	3015.0
17.5°	3539.0	3549.5	3592.9	3666.2	3765.0	3874.3	3940.2	3856.3	3715.6	3573.4	3176.7
20°	3561.4	3568.9	3625.8	3738.1	3872.8	4027.0	4173.7	4151.3	4009.0	3841.4	3359.3
22.5°	3642.3	3642.3	3684.2	3778.5	3937.2	4161.7	4399.8	4458.2	4332.4	4136.3	3555.4
25°	3820.4	3814.4	3833.9	3872.8	3992.6	4269.5	4622.8	4798.0	4657.3	4437.2	3751.6
27.5°	4064.4	4061.4	4059.9	4065.9	4106.4	4363.8	4811.5	5115.4	4974.6	4726.1	3926.7
30°	4329.4	4320.4	4339.9	4321.9	4312.9	4476.1	4971.6	5399.8	5290.5	5012.1	4071.9
32.5°	4690.2	4673.7	4669.2	4610.9	4574.9	4651.3	5100.4	5723.1	5636.3	5320.4	4235.1
35°	5166.2	5151.3	5074.9	4982.1	4875.8	4911.8	5260.6	6039.0	6045.0	5706.7	4449.2
37.5°	5646.8	5649.8	5589.9	5371.3	5262.1	5241.1	5504.6	6423.8	6552.5	6167.8	4726.1
40°	6046.5	6064.5	6064.5	5833.9	5670.7	5651.3	5847.4	6880.3	7136.3	6733.6	5076.4
42.5°	6350.4	6366.9	6419.3	6253.1	6080.9	6148.3	6263.6	7338.4	7798.0	7432.8	5519.5
45°	6684.2	6697.7	6726.2	6630.3	6530.0	6709.7	6735.1	7886.4	8555.5	8217.2	6034.5
47.5°	7127.4	7115.4	7118.4	7048.0	6970.2	7260.6	7254.6	8347.4	9287.6	9076.5	6592.9
50°	7678.3	7700.7	7679.8	7540.5	7449.2	7714.2	7748.6	8857.9	9931.3	9926.8	7155.8
52.5°	8208.2	8217.2	8328.0	8334.0	8146.8	8091.4	8181.3	9372.9	10474.7	10705.3	7696.2
55°	8235.2	8269.6	8601.9	8841.5	9143.9	8699.2	8618.4	9863.9	11000.2	11467.2	8257.6
57.5°	7661.8	7717.2	8281.6	8798.0	9639.4	9742.7	9366.9	10498.7	11525.6	12217.3	8907.3
60°	6437.2	6552.5	7319.0	8109.4	9416.3	10492.7	10898.4	11361.0	12215.8	12983.7	9696.3
62.5°	4110.8	4155.8	5230.6	6554.0	8411.8	10419.3	12566.1	12880.4	13266.7	13982.3	10911.9
65°	2058.4	2202.1	2832.4	3911.7	6066.0	9181.3	13408.9	15663.4	15190.4	15691.9	12881.9
67.5°	1396.7	1443.1	1762.0	2350.3	3556.9	6504.6	12886.4	18007.8	17868.5	17950.9	14982.3
70°	1030.0	1059.9	1311.4	1664.7	2151.2	3693.2	10259.1	17831.1	18781.7	18751.8	14762.2
72.5°	751.5	766.5	956.6	1271.0	1594.3	1910.2	6265.1	14404.4	16395.5	17259.3	12910.4
75°	546.4	564.4	664.7	950.6	1239.5	1191.6	3092.9	10404.4	12503.2	14164.9	10518.1
77.5°	407.2	429.6	476.1	595.8	868.3	853.3	1336.8	6756.1	8087.0	9251.6	6389.3
80°	293.4	297.9	324.9	381.7	550.9	500.0	636.2	3522.5	4039.0	4425.2	2504.5
82.5°	178.1	182.6	217.1	235.0	341.3	314.4	330.8	1140.7	1634.8	1735.1	935.6
85°	52.4	55.4	98.8	107.8	142.2	134.7	133.2	464.1	553.9	708.1	368.3
87.5°	0.0	0.0	0.0	0.0	1.5	9.0	16.5	82.3	124.3	172.2	89.8
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: P641681
 CATALOG NUMBER: GWS-SA6B-735-U-T2-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2416.2	2416.2	2416.2	2416.2	2416.2	2416.2	2416.2	2416.2	2416.2	2416.2	2416.2
2.5°	2441.7	2407.2	2389.3	2357.8	2335.4	2312.9	2290.5	2269.5	2260.5	2247.0	2250.0
5°	2485.1	2431.2	2377.3	2315.9	2263.5	2220.1	2181.2	2146.7	2131.8	2118.3	2124.3
7.5°	2550.9	2470.1	2366.8	2254.5	2172.2	2112.3	2071.9	2047.9	2040.5	2030.0	2030.0
10°	2634.8	2513.5	2332.4	2172.2	2073.4	2025.5	2007.5	2006.0	2013.5	2015.0	2012.0
12.5°	2727.6	2555.4	2281.5	2074.9	1991.0	1976.1	1989.6	2015.0	2040.5	2053.9	2050.9
15°	2823.4	2582.4	2194.6	1982.1	1931.2	1950.6	1994.0	2044.9	2094.3	2119.8	2118.3
17.5°	2913.2	2588.4	2082.4	1892.2	1878.8	1928.2	2003.0	2082.4	2149.7	2185.7	2187.2
20°	3013.5	2577.9	1967.1	1811.4	1826.4	1907.2	2006.0	2101.8	2181.2	2217.1	2226.1
22.5°	3104.8	2542.0	1854.8	1735.1	1781.5	1881.8	1982.1	2071.9	2142.2	2176.7	2188.7
25°	3187.2	2473.1	1732.1	1670.7	1747.0	1845.8	1922.2	1985.1	2034.5	2055.4	2071.9
27.5°	3232.1	2369.8	1639.2	1619.8	1714.1	1794.9	1836.9	1856.3	1872.8	1866.8	1878.8
30°	3241.1	2241.1	1558.4	1579.4	1664.7	1724.6	1733.6	1714.1	1685.7	1639.2	1649.7
32.5°	3232.1	2092.8	1491.0	1536.0	1609.3	1645.2	1633.3	1582.4	1513.5	1441.6	1446.1
35°	3235.1	1943.1	1435.7	1488.0	1544.9	1564.4	1534.5	1464.1	1390.7	1324.9	1321.9
37.5°	3268.0	1817.4	1389.2	1441.6	1482.1	1485.1	1452.1	1378.8	1341.3	1291.9	1285.9
40°	3359.3	1724.6	1347.3	1395.2	1420.7	1419.2	1381.8	1329.4	1354.8	1338.3	1333.9
42.5°	3509.0	1667.7	1312.9	1345.8	1363.8	1366.8	1336.8	1303.9	1359.3	1338.3	1330.9
45°	3750.1	1664.7	1288.9	1296.4	1324.9	1345.8	1324.9	1287.4	1308.4	1206.6	1187.1
47.5°	4036.0	1715.6	1271.0	1253.0	1302.4	1339.8	1306.9	1247.0	1203.6	1110.8	1097.3
50°	4380.3	1818.9	1254.5	1206.6	1269.5	1317.4	1284.5	1202.1	1136.2	1086.8	1079.4
52.5°	4789.0	1955.1	1233.6	1154.2	1220.1	1305.4	1284.5	1197.6	1110.8	1065.9	1058.4
55°	5217.1	2112.3	1209.6	1091.3	1164.7	1308.4	1294.9	1166.2	1091.3	1067.4	1061.4
57.5°	5748.6	2300.9	1166.2	1018.0	1115.3	1281.5	1253.0	1148.2	1077.9	1058.4	1052.4
60°	6438.7	2580.9	1083.8	943.1	1058.4	1233.6	1215.6	1118.3	1041.9	1025.5	1021.0
62.5°	7531.6	3055.4	983.5	871.3	991.0	1133.3	1160.2	1061.4	997.0	995.5	994.0
65°	9313.0	3625.8	865.3	806.9	920.7	1050.9	1086.8	1003.0	950.6	967.1	965.6
67.5°	10561.5	3675.2	768.0	739.5	838.3	961.1	1013.5	943.1	886.2	917.7	916.2
70°	9673.8	2866.8	684.1	669.2	750.0	863.8	934.1	868.3	811.4	841.3	835.3
72.5°	8158.8	2197.6	604.8	595.8	660.2	762.0	832.3	793.4	733.5	733.5	720.1
75°	6557.0	1812.9	521.0	516.5	559.9	658.7	738.0	672.2	616.8	613.8	604.8
77.5°	3760.5	1188.6	437.1	434.1	447.6	550.9	573.4	559.9	518.0	498.5	492.5
80°	1498.5	618.3	344.3	324.9	338.3	404.2	452.1	429.6	393.7	369.8	356.3
82.5°	580.8	309.9	242.5	212.6	232.0	291.9	327.8	320.4	296.4	242.5	227.5
85°	236.5	151.2	145.2	122.8	134.7	157.2	188.6	163.2	134.7	95.8	91.3
87.5°	62.9	55.4	53.9	32.9	25.4	7.5	1.5	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)