

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P650429

Luminaire Tested: **GLAN-SA5B-835-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650429
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5B-835-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22739.1 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

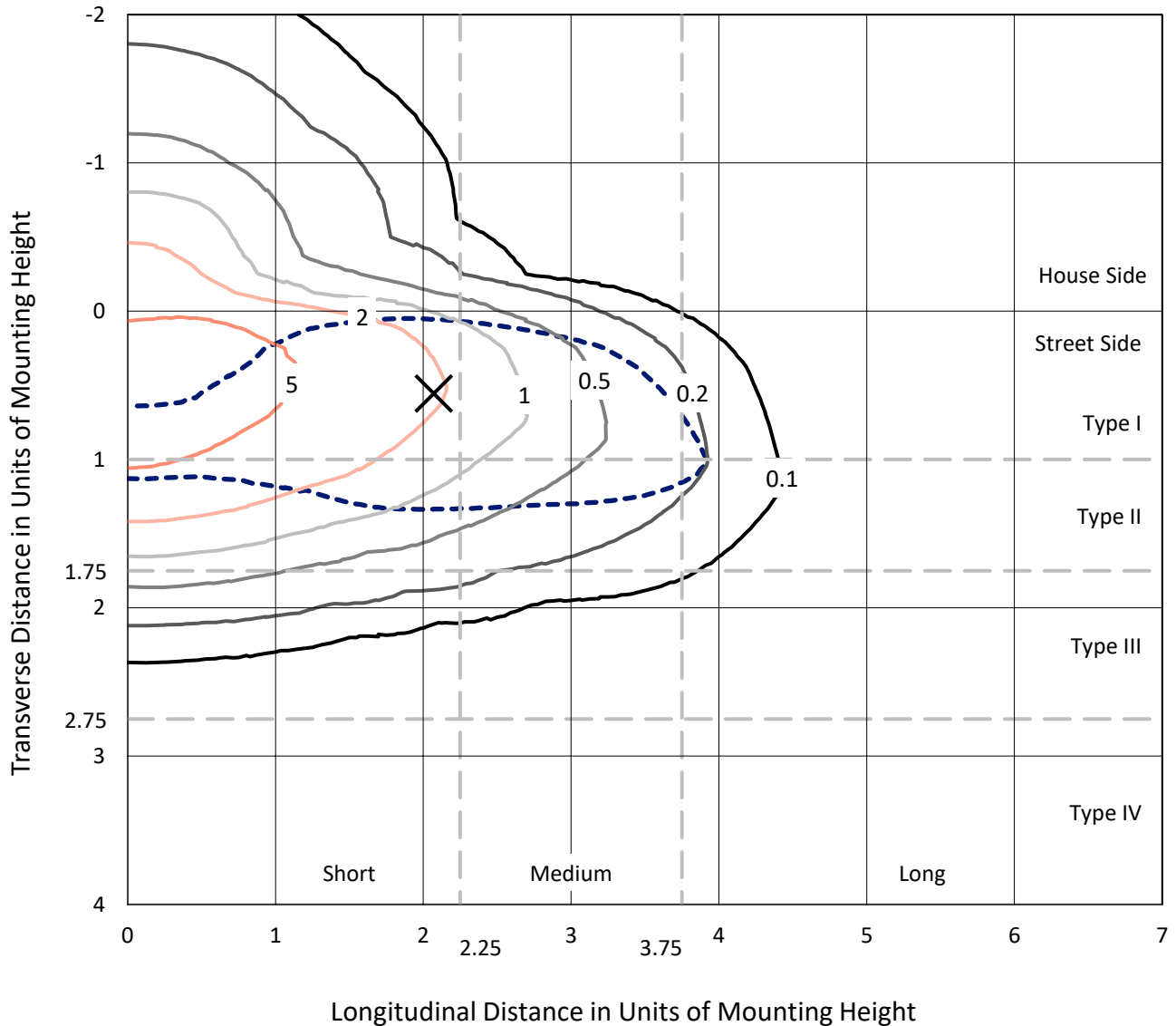
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

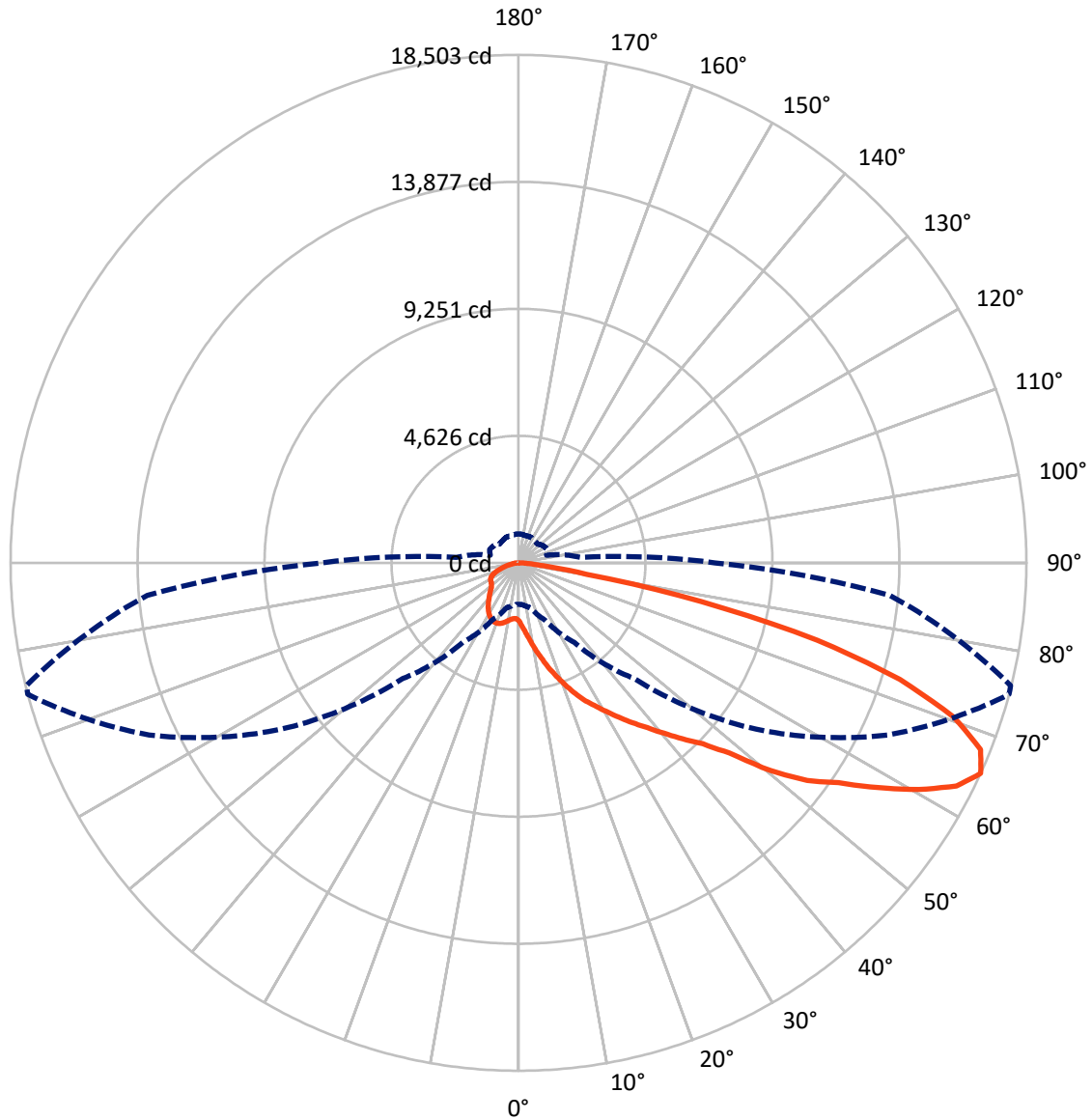
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3822.7	0.0	3822.7
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	18916.4	0.0	18916.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	22739.1	0.0	22739.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.7	1.1
10°-20°	1005.4	4.4
20°-30°	1942.1	8.5
30°-40°	3154.6	13.9
40°-50°	4339.5	19.1
50°-60°	5123.5	22.5
60°-70°	4489.0	19.7
70°-80°	2143.1	9.4
80°-90°	285.2	1.3
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°	22739.1	100.0
0°-180°	22739.1	100.0

Coefficient of Utilization

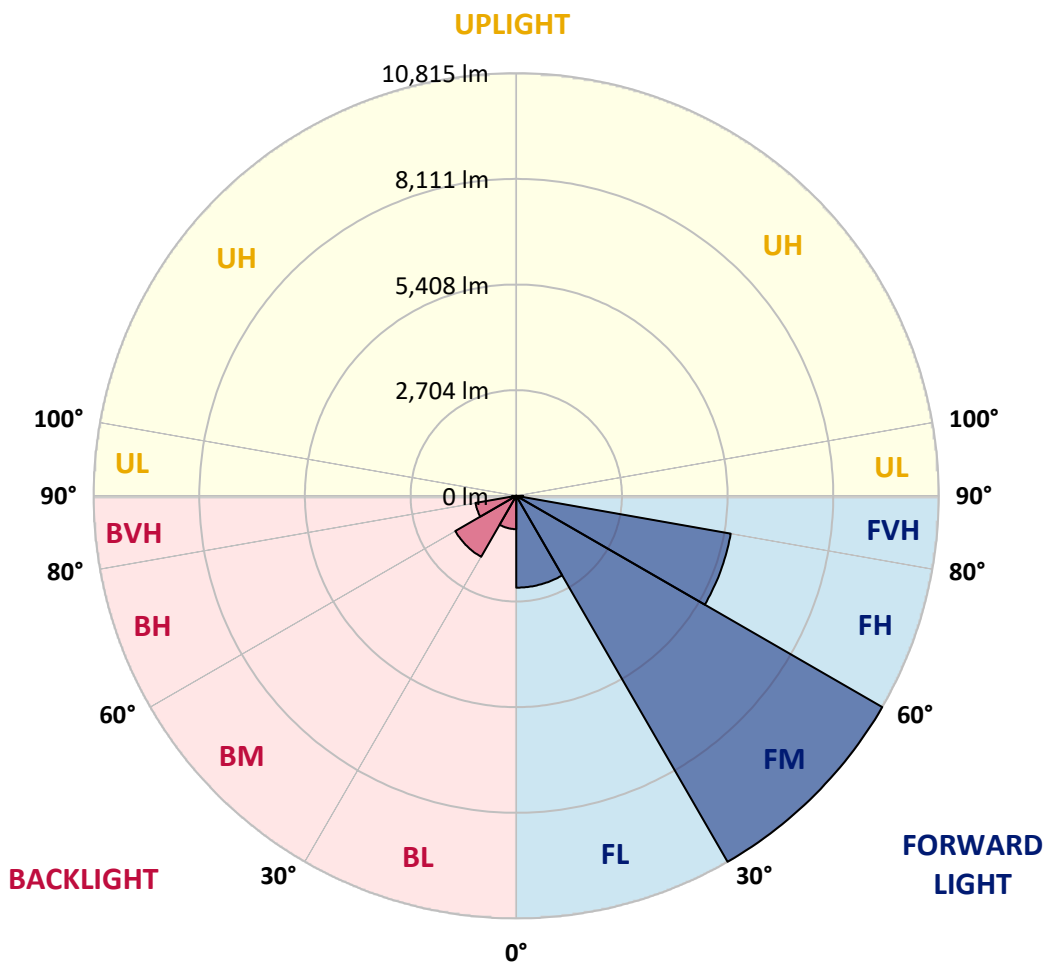


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2350.9	10.3			
FM (30°-60°)	10815.2	47.6			
FH (60°-80°)	5572.1	24.5			G3/7500
FVH (80°-90°)	178.2	0.8			G2/225
BL (0°-30°)	853.4	3.8	B2/1000		
BM (30°-60°)	1802.4	7.9	B2/2500		
BH (60°-80°)	1060.0	4.7	B3/2500		G3/2500
BVH (80°-90°)	107.0	0.5			G2/225
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8
2.5°	2807.1	2788.7	2768.9	2714.7	2656.6	2591.3	2497.5	2407.5	2287.9	2284.2	2195.4
5°	3585.4	3573.1	3485.4	3434.9	3300.5	3121.7	2969.9	2734.4	2516.1	2490.2	2317.5
7.5°	4300.7	4252.6	4219.4	4128.1	3994.9	3765.4	3471.9	3153.7	2788.7	2754.1	2467.9
10°	4839.7	4834.8	4817.5	4738.6	4638.6	4410.5	4084.9	3628.6	3134.0	3066.1	2650.5
12.5°	5243.0	5246.7	5244.2	5243.0	5171.5	4977.8	4625.1	4144.1	3483.0	3434.9	2861.4
15°	5508.2	5545.2	5560.0	5621.7	5627.8	5498.3	5194.9	4642.4	3876.5	3804.9	3088.3
17.5°	5683.3	5701.8	5770.9	5875.7	5960.8	5937.4	5667.3	5103.7	4278.5	4158.9	3323.9
20°	5851.0	5883.1	5936.2	6079.2	6229.7	6298.8	6108.8	5576.1	4676.9	4600.4	3584.2
22.5°	6200.1	6245.8	6264.2	6337.1	6465.3	6587.4	6501.1	6028.7	5113.5	5009.9	3860.4
25°	6790.9	6839.0	6787.2	6769.9	6811.9	6872.3	6853.8	6455.4	5525.5	5377.5	4121.9
27.5°	7560.5	7566.7	7465.5	7369.4	7265.8	7234.9	7178.2	6834.0	5883.1	5759.8	4384.6
30°	8386.9	8357.3	8189.6	8015.6	7840.5	7667.8	7505.0	7199.1	6281.5	6139.7	4642.4
32.5°	9154.1	9138.0	8951.7	8681.7	8385.6	8222.8	7893.5	7567.9	6708.3	6571.3	4907.5
35°	9728.8	9752.2	9547.4	9252.7	8929.6	8785.3	8369.6	7955.2	7149.8	7000.6	5196.1
37.5°	10137.0	10124.7	9943.4	9688.1	9404.4	9278.6	8925.8	8378.3	7624.6	7481.6	5511.9
40°	10282.5	10275.2	10140.7	9954.4	9774.4	9730.0	9508.0	8834.6	8168.6	8000.9	5891.8
42.5°	10190.0	10206.1	10117.3	10066.7	10033.4	10065.5	10086.4	9432.7	8761.8	8607.7	6303.7
45°	9906.4	9897.7	9885.4	9968.1	10155.5	10366.5	10658.7	9997.7	9406.9	9283.5	6856.3
47.5°	9399.4	9461.1	9492.0	9720.2	10129.6	10629.1	11317.3	10754.9	10343.0	10235.7	7698.6
50°	8690.3	8739.6	8922.1	9328.0	9938.5	10727.8	11961.2	11993.2	11904.4	11703.3	8613.8
52.5°	7582.7	7659.1	8035.4	8779.1	9546.3	10687.1	12350.9	13055.1	13172.3	13021.8	9515.4
55°	6343.2	6450.5	6847.6	7823.2	9006.0	10465.1	12619.8	13670.6	14138.0	13998.6	10383.7
57.5°	5129.6	5243.0	5651.3	6596.0	8063.7	9974.2	12796.1	14356.3	15452.8	15271.5	11464.1
60°	3844.4	3962.8	4313.1	5286.2	6721.8	9014.7	12676.5	14950.8	16766.3	16688.6	12545.8
62.5°	2480.3	2611.0	2915.7	3721.1	5166.5	7703.5	12036.4	15278.9	17903.5	17809.7	13335.1
65°	1510.9	1525.7	1693.4	2310.1	3536.0	5964.5	10572.4	14843.5	18502.9	18474.6	13575.7
67.5°	976.8	1000.3	1076.7	1383.8	2120.1	4142.9	8453.5	13406.7	18152.6	18142.7	13078.6
70°	825.1	832.5	867.0	933.6	1232.1	2512.3	5936.2	11116.3	16821.8	16821.8	11883.4
72.5°	737.6	747.5	759.7	780.7	879.4	1423.3	3542.2	8653.2	14524.1	14620.3	10114.8
75°	669.7	667.3	674.6	678.3	749.9	930.0	1831.5	6399.9	11235.9	11043.5	7325.0
77.5°	573.5	577.2	573.5	589.5	662.3	708.0	930.0	4294.6	6809.4	6560.3	3676.7
80°	471.1	477.3	483.5	493.4	566.1	537.8	558.7	1957.3	2518.5	2465.5	1135.9
82.5°	354.0	362.6	372.5	395.9	445.2	355.2	352.7	836.2	909.0	832.5	418.1
85°	143.1	169.0	255.3	278.7	280.0	194.9	217.0	349.1	371.2	362.6	164.0
87.5°	33.3	39.5	82.6	124.6	114.7	72.7	80.2	113.5	129.5	119.6	55.5
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°	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8	2112.8
2.5°	2154.7	2111.5	2037.5	1980.8	1940.1	1904.3	1882.1	1868.6	1863.6	1862.4	1863.6
5°	2227.5	2151.0	2033.8	1959.8	1919.1	1895.6	1882.1	1880.8	1882.1	1883.3	1879.7
7.5°	2327.4	2217.6	2064.6	1995.6	1964.8	1947.5	1941.3	1938.9	1940.1	1938.9	1938.9
10°	2460.6	2310.1	2125.1	2053.6	2027.7	2007.9	1998.1	1991.9	1986.9	1982.0	1979.6
12.5°	2607.3	2412.4	2190.4	2121.4	2084.3	2053.6	2031.3	2015.3	2004.2	1993.1	1990.6
15°	2771.4	2521.0	2263.2	2167.0	2114.0	2068.4	2030.1	2004.2	1984.5	1968.5	1967.2
17.5°	2928.0	2623.4	2312.6	2188.0	2110.3	2046.1	1995.6	1959.8	1935.2	1914.2	1911.7
20°	3095.7	2720.8	2334.7	2174.4	2073.3	1995.6	1929.0	1885.8	1857.4	1834.0	1830.3
22.5°	3264.7	2803.5	2332.3	2131.2	2009.2	1917.9	1847.6	1801.9	1768.6	1745.2	1736.5
25°	3426.3	2870.0	2301.5	2062.2	1920.3	1825.4	1753.8	1711.9	1682.3	1653.9	1653.9
27.5°	3571.8	2909.5	2243.5	1978.3	1829.1	1729.2	1672.4	1634.2	1607.1	1588.6	1577.4
30°	3714.9	2928.0	2164.5	1872.2	1732.9	1647.7	1602.2	1579.9	1555.3	1534.3	1531.9
32.5°	3843.1	2924.3	2065.9	1768.6	1641.6	1581.2	1562.6	1545.4	1519.5	1489.9	1482.5
35°	3967.7	2899.6	1948.7	1655.2	1565.1	1541.7	1546.7	1522.0	1475.1	1438.1	1432.0
37.5°	4103.4	2855.2	1820.5	1562.6	1501.0	1523.2	1535.5	1481.3	1404.8	1346.8	1333.3
40°	4260.1	2804.6	1687.2	1470.2	1450.4	1505.9	1505.9	1406.0	1301.2	1265.4	1255.5
42.5°	4443.8	2762.7	1576.3	1392.5	1408.5	1464.0	1457.9	1306.1	1263.0	1244.5	1239.6
45°	4734.9	2747.9	1461.5	1324.6	1373.9	1414.6	1364.1	1271.6	1246.9	1232.1	1227.2
47.5°	5194.9	2765.2	1360.4	1274.1	1334.5	1365.3	1259.3	1248.2	1230.9	1209.9	1207.5
50°	5621.7	2749.2	1288.9	1245.7	1299.9	1306.1	1216.1	1219.8	1209.9	1186.5	1181.5
52.5°	5970.7	2698.6	1243.2	1230.9	1270.3	1202.5	1175.4	1189.0	1185.2	1155.6	1150.7
55°	6354.3	2667.8	1221.0	1230.9	1250.6	1112.5	1137.2	1156.9	1151.9	1131.0	1129.8
57.5°	6819.2	2673.9	1205.0	1234.6	1230.9	1066.8	1098.9	1122.4	1121.1	1115.0	1115.0
60°	7295.4	2676.4	1180.3	1233.4	1207.5	1031.1	1059.5	1092.8	1095.3	1098.9	1098.9
62.5°	7453.2	2569.1	1132.2	1211.1	1155.6	996.5	1022.4	1068.1	1065.7	1075.5	1076.7
65°	7158.4	2271.9	1060.7	1160.6	1089.1	971.9	994.1	1036.0	1022.4	1048.4	1053.3
67.5°	6515.9	1879.7	949.7	1069.3	1015.1	946.0	975.6	991.6	966.9	1017.5	1018.8
70°	5631.6	1467.7	809.1	939.8	931.2	918.9	960.8	936.2	901.6	963.2	951.0
72.5°	4709.0	1121.1	646.3	768.4	818.9	878.1	934.9	864.6	816.5	835.0	812.8
75°	3537.3	828.8	519.2	601.9	682.1	820.2	911.5	778.2	704.2	687.0	682.1
77.5°	1803.2	541.4	388.5	450.1	511.8	741.3	879.4	677.1	583.4	556.2	544.0
80°	643.8	336.7	273.8	310.8	345.3	637.7	768.4	559.9	452.7	447.7	452.7
82.5°	298.5	217.0	183.8	203.5	204.8	425.5	585.8	418.1	344.1	523.0	441.5
85°	128.3	108.5	103.6	101.2	93.7	190.0	329.3	224.5	350.2	156.6	144.3
87.5°	38.2	43.1	38.2	28.3	21.0	21.0	33.3	12.4	8.6	6.2	6.2
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)