

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: P317600

Luminaire Tested: **GAN-SA6B-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 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: 28296 lumens
Efficiency: N/A
Efficacy: 113.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

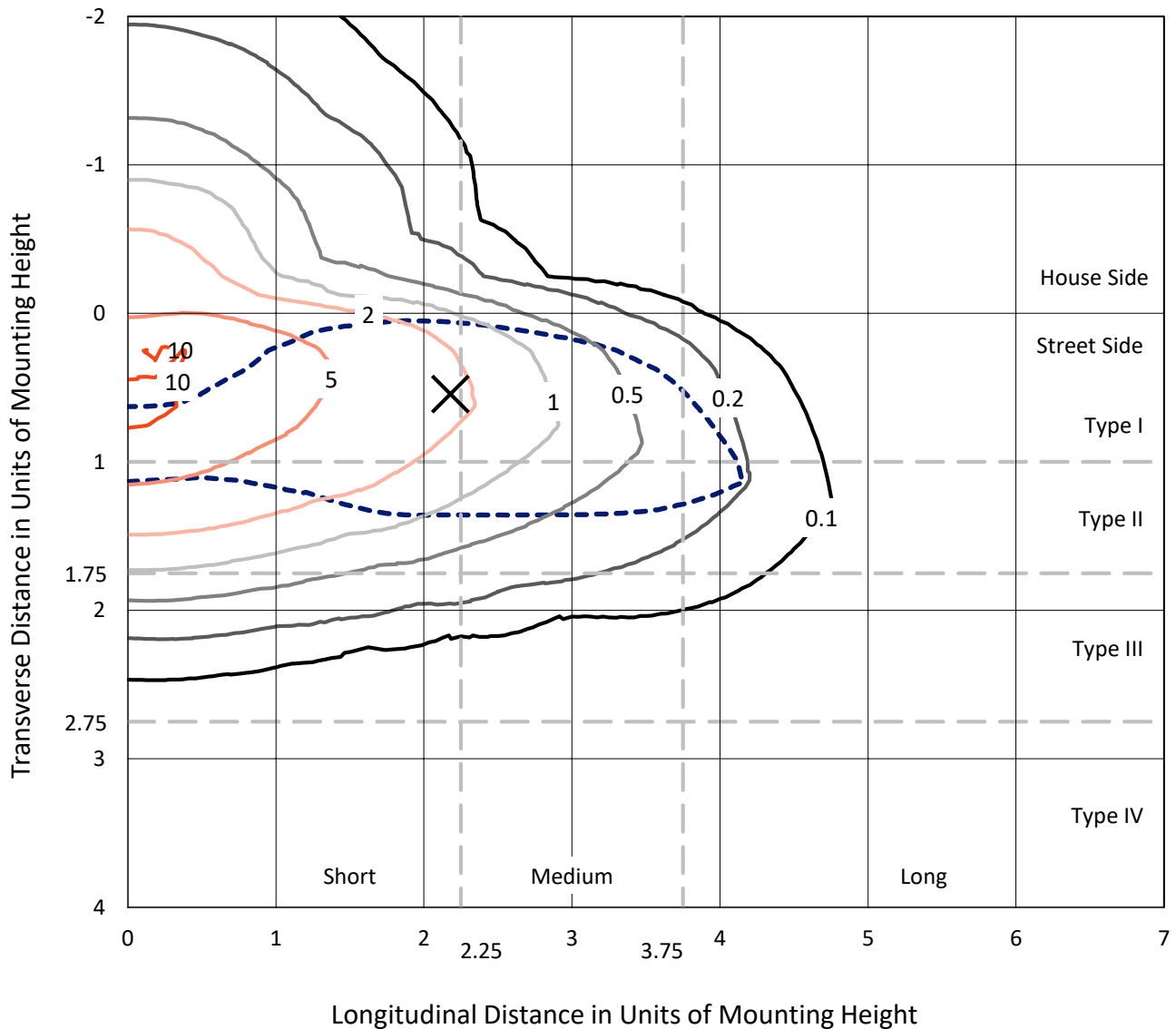
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

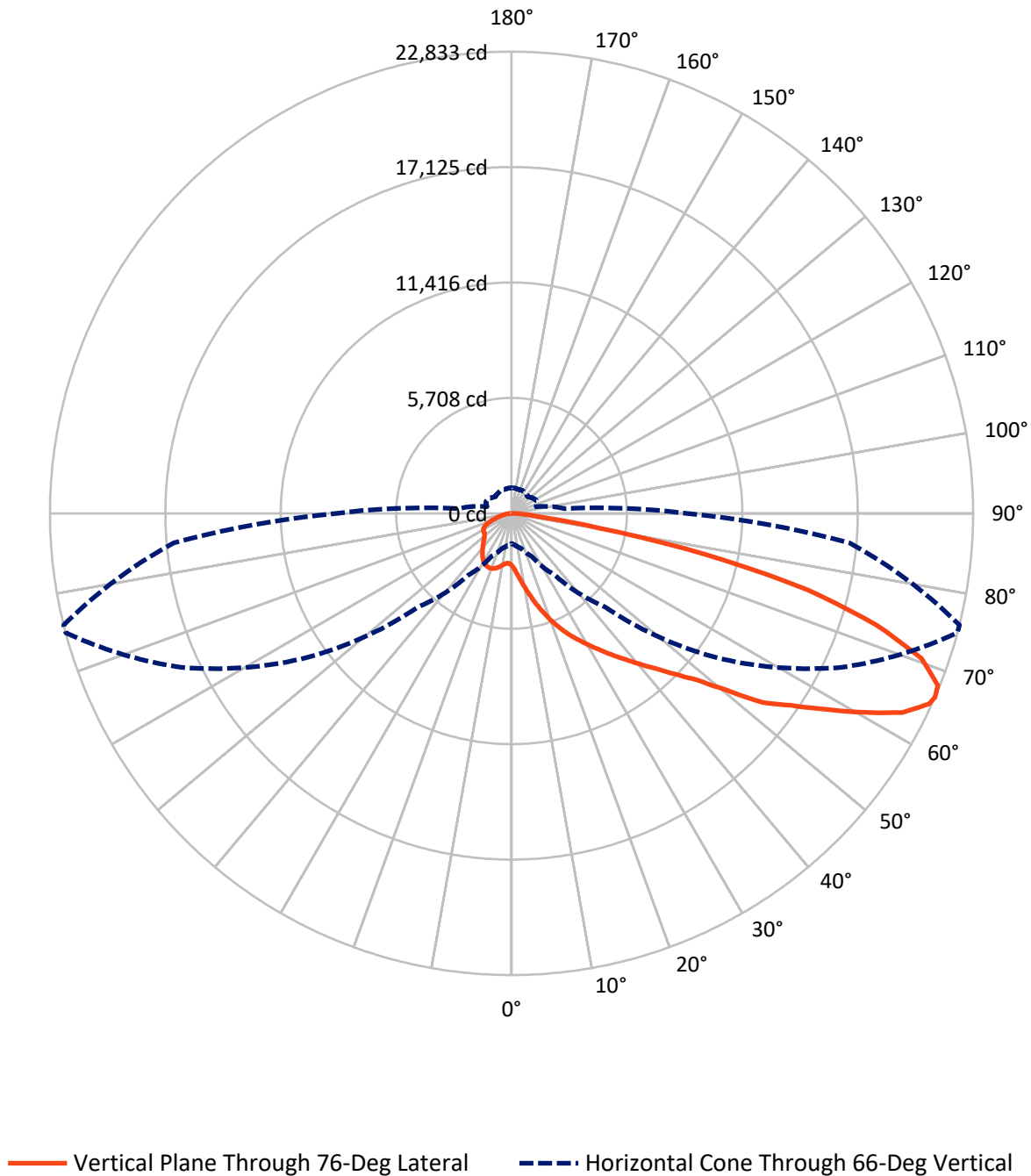
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4761.2	0.0	4761.2
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	23534.7	0.0	23534.7
	% Fixture	83.2	0.0	83.2
Total	Lumens	28296.0	0.0	28296.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	312.5	1.1
10°-20°	1234.0	4.4
20°-30°	2397.9	8.5
30°-40°	3913.9	13.8
40°-50°	5347.4	18.9
50°-60°	6228.6	22.0
60°-70°	5584.1	19.7
70°-80°	2821.9	10.0
80°-90°	455.7	1.6
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°	28296.0	100.0
0°-180°	28296.0	100.0

Coefficient of Utilization



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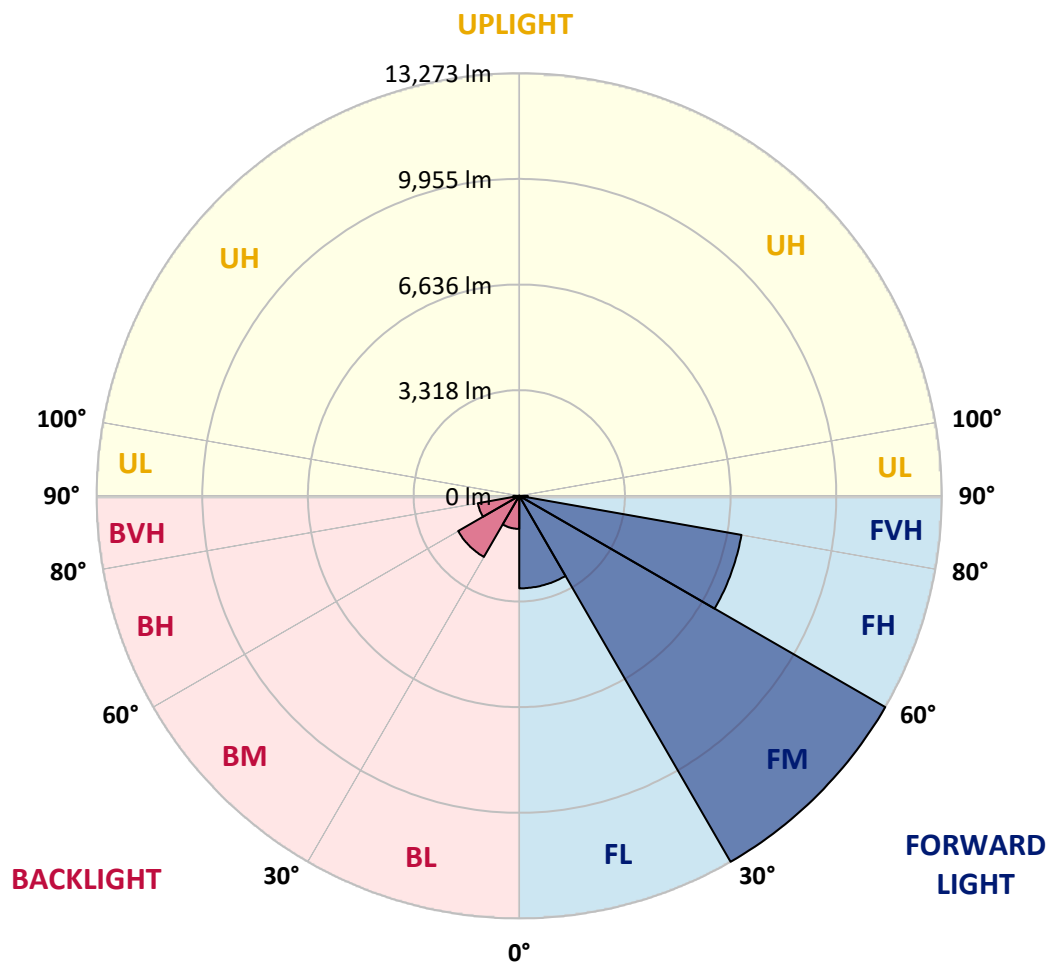
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2905.9	10.3			
FM	(30°-60°)	13272.8	46.9			
FH	(60°-80°)	7086.9	25.0			G3/7500
FVH	(80°-90°)	269.1	1.0			G3/500
BL	(0°-30°)	1038.4	3.7	B3/2500		
BM	(30°-60°)	2217.1	7.8	B2/2500		
BH	(60°-80°)	1319.1	4.7	B3/2500		G3/2500
BVH	(80°-90°)	186.6	0.7			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°	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1
2.5°	3430.4	3378.5	3373.7	3297.8	3280.5	3135.5	3028.8	2917.4	2790.6	2765.6	2665.7
5°	4406.4	4401.6	4335.3	4211.4	4114.3	3866.5	3621.5	3362.2	3077.8	3031.7	2806.9
7.5°	5284.4	5276.7	5225.8	5092.2	4952.0	4647.5	4297.8	3900.1	3439.0	3370.8	2998.1
10°	5951.0	5948.1	5930.9	5832.9	5713.8	5421.7	5035.6	4492.8	3858.8	3765.6	3237.3
12.5°	6465.9	6471.7	6483.2	6448.6	6392.0	6143.2	5747.4	5121.1	4306.5	4214.2	3503.4
15°	6814.6	6831.9	6891.5	6940.5	6970.2	6817.5	6434.2	5763.7	4807.9	4697.4	3798.3
17.5°	6990.4	7009.6	7112.4	7260.4	7396.8	7381.4	7076.9	6376.6	5289.2	5182.5	4115.3
20°	7142.2	7156.6	7271.9	7449.6	7690.7	7797.3	7626.3	6966.4	5816.5	5689.7	4451.5
22.5°	7582.2	7600.4	7635.0	7735.9	7949.1	8145.1	8062.5	7524.5	6299.7	6181.6	4770.4
25°	8431.3	8453.4	8378.5	8293.0	8333.4	8469.8	8485.1	8033.7	6789.6	6656.1	5113.4
27.5°	9454.4	9486.1	9358.3	9138.4	8946.2	8893.4	8875.2	8450.6	7257.5	7102.8	5452.5
30°	10456.3	10511.1	10344.9	10059.6	9707.0	9459.2	9275.7	8858.8	7718.6	7570.6	5772.4
32.5°	11435.2	11413.1	11172.0	10893.4	10480.3	10170.1	9726.3	9296.9	8237.3	8067.3	6090.3
35°	12105.7	12113.4	11889.6	11559.1	11165.3	10927.0	10329.5	9769.5	8766.6	8610.0	6451.5
37.5°	12676.3	12640.8	12387.2	12078.8	11739.7	11637.9	11035.6	10290.1	9340.1	9169.1	6835.8
40°	12866.5	12825.2	12659.0	12437.1	12165.3	12156.6	11814.6	10880.0	9988.5	9819.4	7269.0
42.5°	12751.2	12698.4	12630.2	12569.7	12486.1	12524.5	12546.6	11571.6	10701.3	10512.0	7770.4
45°	12325.7	12246.0	12294.0	12425.6	12607.2	12824.3	13207.5	12337.2	11499.6	11341.1	8359.3
47.5°	11671.5	11599.5	11749.3	12030.8	12524.5	13074.0	13832.9	13182.6	12452.5	12295.0	9197.9
50°	10751.2	10772.4	10986.6	11498.6	12245.0	13189.3	14603.3	14301.7	13837.7	13690.7	10342.0
52.5°	9241.1	9245.0	9848.3	10688.8	11749.3	13129.7	15030.8	15732.0	15729.2	15551.4	11431.4
55°	7838.6	7924.1	8401.6	9518.8	10946.2	12891.5	15329.5	16427.5	16971.2	16762.8	12446.7
57.5°	6468.8	6518.8	6971.2	8093.2	9800.2	12256.5	15636.0	17262.3	18402.6	18271.0	13709.0
60°	4910.7	4987.5	5455.4	6491.9	8334.3	11129.7	15664.8	18133.6	20113.4	19980.9	15118.2
62.5°	3187.3	3319.9	3757.9	4729.1	6561.0	9509.2	14996.2	18703.2	21734.9	21687.9	16368.9
65°	1831.9	1931.8	2236.3	2985.6	4526.4	7474.6	13406.4	18484.2	22733.0	22706.1	16836.8
66°	1496.6	1559.1	1792.5	2333.3	3734.9	6563.9	12482.3	18022.2	22832.0	22832.9	16783.0
67.5°	1196.9	1224.8	1329.5	1670.5	2756.0	5202.7	10831.0	17002.9	22709.0	22742.6	16436.2
70°	990.4	1004.8	1037.5	1120.1	1504.3	3137.4	7687.8	14354.5	21474.6	21500.6	15082.7
72.5°	888.6	897.2	909.7	921.2	1061.5	1753.1	4695.5	11483.2	18828.1	18861.7	13020.2
75°	805.0	809.8	807.9	808.8	890.5	1117.2	2426.5	8573.5	15223.9	15156.6	9974.1
77.5°	707.0	711.8	702.2	704.1	787.7	858.8	1207.5	6001.9	10273.8	9799.3	5619.6
80°	597.5	601.3	597.5	604.2	685.9	648.4	702.2	3376.6	4542.8	4296.8	1998.1
82.5°	451.5	467.8	479.3	506.2	564.8	461.1	469.7	1315.1	1383.3	1317.0	612.9
85°	197.9	241.1	361.2	387.1	424.6	276.7	308.4	536.0	562.9	545.6	222.9
87.5°	51.9	56.7	178.7	224.8	235.4	124.9	160.4	244.0	257.4	244.0	74.0
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°	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1	2584.1
2.5°	2612.9	2565.8	2481.3	2406.3	2349.7	2311.2	2272.8	2253.6	2242.1	2230.6	2232.5
5°	2696.5	2601.4	2456.3	2353.5	2295.9	2259.4	2240.2	2232.5	2227.7	2216.1	2216.1
7.5°	2822.3	2687.8	2488.0	2382.3	2337.2	2309.3	2297.8	2294.0	2288.2	2274.7	2276.7
10°	2980.8	2792.5	2554.3	2451.5	2410.2	2379.5	2363.1	2357.4	2346.8	2331.4	2333.3
12.5°	3167.2	2922.2	2641.7	2534.1	2484.2	2442.9	2416.0	2399.6	2381.4	2361.2	2362.2
15°	3370.8	3063.4	2735.8	2608.1	2539.9	2482.2	2439.0	2411.2	2382.3	2357.4	2356.4
17.5°	3577.3	3199.8	2807.9	2648.4	2556.2	2480.3	2421.7	2378.5	2342.9	2312.2	2309.3
20°	3800.2	3322.8	2848.2	2644.6	2525.5	2435.2	2357.4	2303.6	2264.2	2233.4	2228.6
22.5°	4026.9	3438.1	2855.0	2605.2	2457.3	2346.8	2265.1	2205.6	2165.2	2133.5	2122.0
25°	4234.4	3527.4	2827.1	2529.3	2362.2	2243.0	2163.3	2102.8	2070.1	2032.7	2021.1
27.5°	4423.6	3589.8	2771.4	2432.3	2255.5	2138.3	2063.4	2011.5	1976.0	1947.2	1937.6
30°	4593.7	3623.5	2680.1	2317.0	2146.0	2039.4	1976.0	1940.4	1909.7	1873.2	1866.5
32.5°	4755.1	3623.5	2562.9	2191.2	2037.5	1952.0	1914.5	1892.4	1857.8	1822.3	1812.7
35°	4916.4	3601.4	2424.6	2059.6	1937.6	1889.5	1887.6	1861.7	1808.8	1760.8	1748.3
37.5°	5086.5	3556.2	2269.0	1936.6	1855.9	1861.7	1878.0	1820.4	1745.4	1677.2	1659.0
40°	5278.6	3493.8	2107.6	1830.0	1787.7	1849.2	1852.1	1760.8	1614.8	1552.4	1536.0
42.5°	5504.3	3431.3	1957.7	1735.8	1733.9	1811.7	1803.1	1632.1	1544.7	1513.0	1504.3
45°	5801.2	3395.8	1815.6	1646.5	1691.6	1751.2	1719.5	1561.0	1524.5	1506.2	1498.6
47.5°	6269.0	3414.0	1684.9	1575.4	1649.4	1690.7	1563.9	1532.2	1506.2	1484.2	1476.5
50°	6855.0	3403.5	1579.3	1526.4	1601.4	1627.3	1493.8	1494.7	1481.3	1456.3	1444.8
52.5°	7295.9	3320.9	1511.1	1498.6	1559.1	1514.9	1449.6	1458.2	1451.5	1415.0	1402.5
55°	7721.4	3249.8	1476.5	1488.0	1528.3	1374.6	1397.7	1418.8	1412.1	1376.6	1370.8
57.5°	8250.7	3236.3	1455.3	1490.9	1502.4	1304.5	1347.7	1375.6	1370.8	1355.4	1352.6
60°	8899.2	3240.2	1436.1	1495.7	1473.6	1252.6	1300.7	1336.2	1339.1	1336.2	1334.3
62.5°	9255.6	3135.5	1388.1	1482.2	1422.7	1207.5	1251.7	1303.6	1304.5	1310.3	1309.3
65°	8953.0	2822.3	1298.8	1435.2	1337.2	1170.0	1209.4	1266.1	1251.7	1277.6	1277.6
66°	8659.0	2641.7	1254.6	1404.4	1300.7	1155.6	1196.0	1246.9	1228.6	1264.2	1264.2
67.5°	8058.6	2337.2	1174.8	1339.1	1248.8	1135.5	1180.6	1215.2	1190.2	1243.0	1239.2
70°	6961.6	1807.9	1014.4	1191.2	1163.3	1105.7	1159.5	1151.8	1115.3	1196.0	1180.6
72.5°	5869.4	1373.7	814.6	997.1	1033.6	1068.2	1129.7	1071.1	1025.0	1081.7	1048.0
75°	4554.3	1032.7	643.6	775.2	873.2	1009.6	1094.1	977.9	911.6	905.9	887.6
77.5°	2462.1	708.9	510.1	591.7	693.6	936.6	1070.1	878.0	778.1	755.0	740.6
80°	975.0	461.1	370.8	448.6	485.1	830.9	1012.5	761.8	641.7	618.6	596.5
82.5°	402.5	272.8	239.2	300.7	316.0	710.9	908.7	624.4	495.7	685.9	728.1
85°	172.9	149.9	142.2	155.6	178.7	498.6	723.3	476.5	535.1	477.4	379.4
87.5°	51.9	63.4	60.5	59.6	65.3	119.1	385.2	265.1	392.9	148.9	111.4
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)