

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: P317609

Luminaire Tested: **GAN-SA5C-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317609
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-SA5C-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29266 lumens
Efficiency: N/A
Efficacy: 104.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

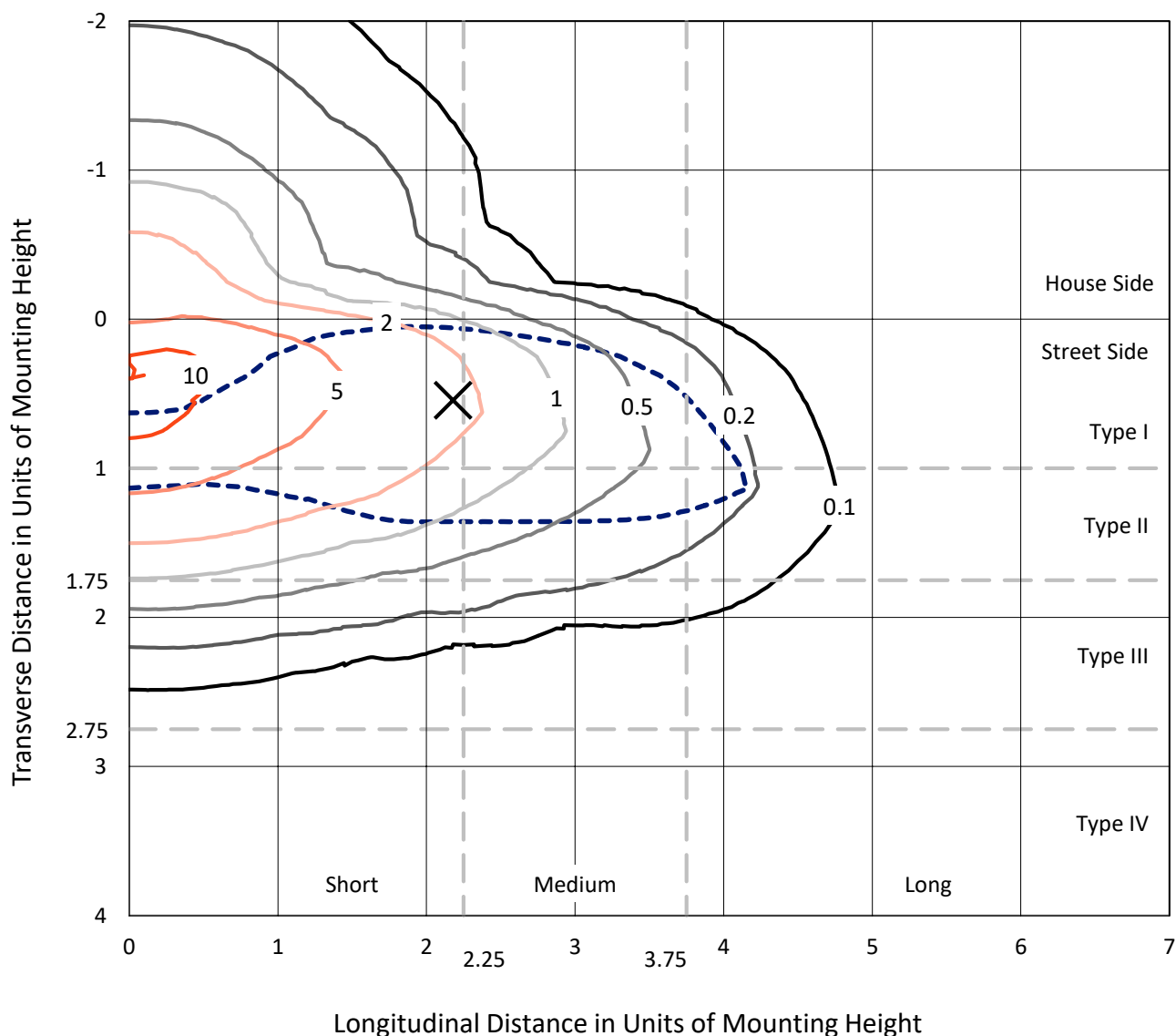
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

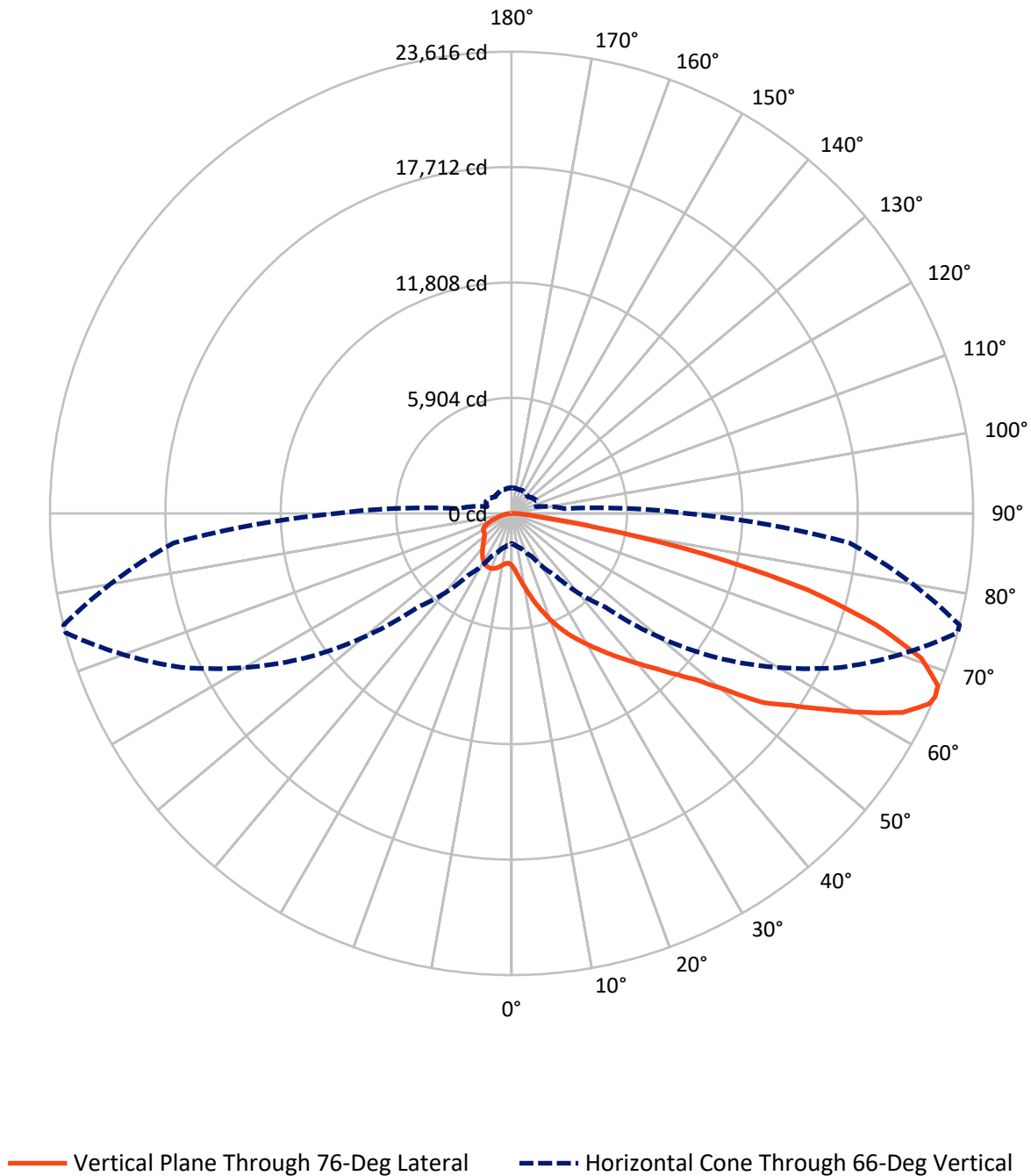
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.3 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	4924.5	0.0	4924.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	24341.5	0.0	24341.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	29266.0	0.0	29266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	323.2	1.1
10°-20°	1276.3	4.4
20°-30°	2480.1	8.5
30°-40°	4048.1	13.8
40°-50°	5530.7	18.9
50°-60°	6442.1	22.0
60°-70°	5775.5	19.7
70°-80°	2918.7	10.0
80°-90°	471.3	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°	29266.0	100.0
0°-180°	29266.0	100.0

Coefficient of Utilization



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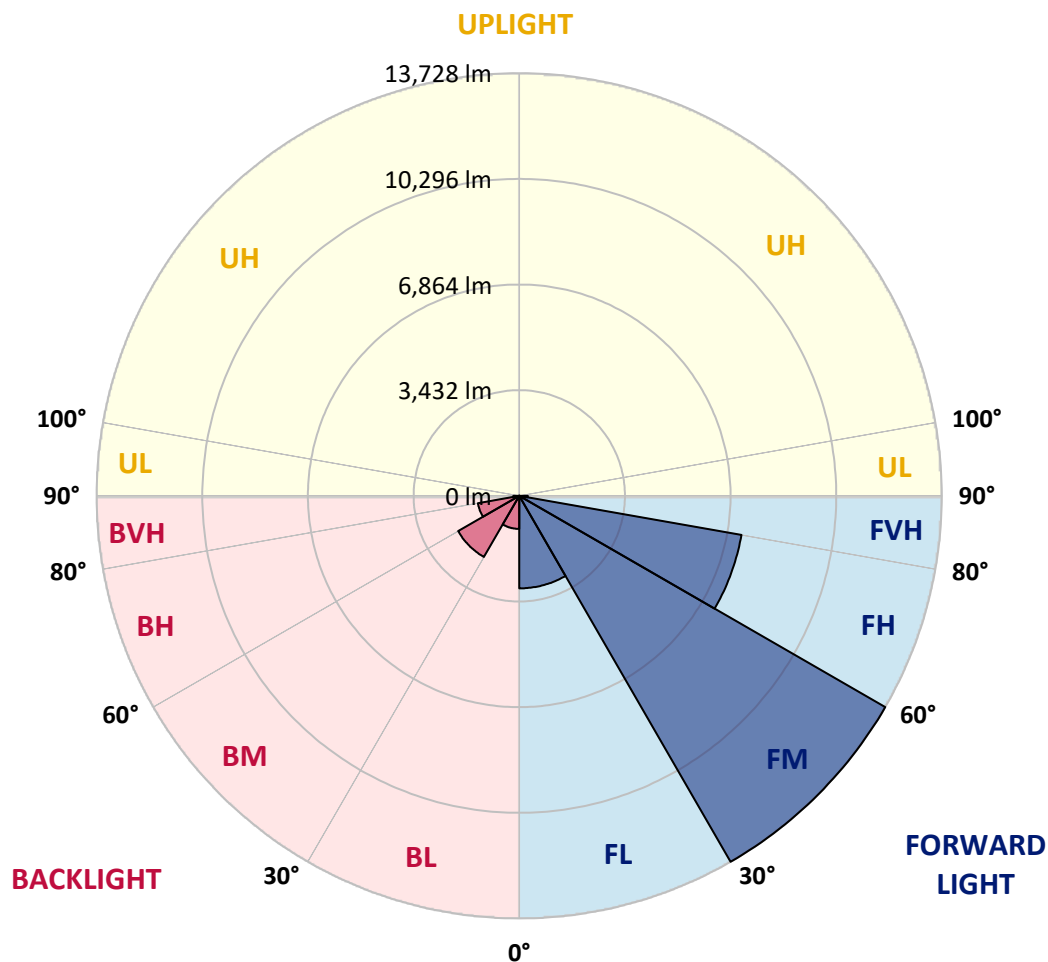
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3005.5	10.3			
FM	(30°-60°)	13727.8	46.9			
FH	(60°-80°)	7329.9	25.0			G3/7500
FVH	(80°-90°)	278.3	1.0			G3/500
BL	(0°-30°)	1074.0	3.7	B3/2500		
BM	(30°-60°)	2293.1	7.8	B2/2500		
BH	(60°-80°)	1364.3	4.7	B3/2500		G3/2500
BVH	(80°-90°)	193.0	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°	2672.6	2672.6	2672.6	2672.6	2672.6	2672.6	2672.6	2672.6	2672.6	2672.6	2672.6
2.5°	3548.0	3494.3	3489.3	3410.9	3393.0	3242.9	3132.7	3017.4	2886.3	2860.4	2757.1
5°	4557.4	4552.4	4483.9	4355.7	4255.4	3999.0	3745.7	3477.4	3183.3	3135.6	2903.1
7.5°	5465.5	5457.6	5404.9	5266.8	5121.7	4806.8	4445.1	4033.8	3556.9	3486.4	3100.9
10°	6155.0	6152.1	6134.2	6032.8	5909.6	5607.6	5208.2	4646.8	3991.1	3894.7	3348.3
12.5°	6687.6	6693.5	6705.5	6669.7	6611.1	6353.7	5944.4	5296.6	4454.1	4358.7	3623.5
15°	7048.2	7066.1	7127.7	7178.4	7209.2	7051.2	6654.8	5961.3	4972.7	4858.5	3928.5
17.5°	7230.1	7249.9	7356.2	7509.2	7650.3	7634.4	7319.5	6595.2	5470.5	5360.2	4256.4
20°	7387.0	7401.9	7521.2	7705.0	7954.4	8064.6	7887.8	7205.2	6015.9	5884.8	4604.1
22.5°	7842.1	7861.0	7896.7	8001.0	8221.6	8424.3	8338.9	7782.5	6515.7	6393.5	4934.0
25°	8720.4	8743.2	8665.7	8577.3	8619.0	8760.1	8776.0	8309.0	7022.4	6884.3	5288.7
27.5°	9778.5	9811.3	9679.2	9451.6	9252.9	9198.3	9179.4	8740.2	7506.3	7346.3	5639.4
30°	10814.8	10871.4	10699.5	10404.4	10039.8	9783.5	9593.7	9162.5	7983.2	7830.2	5970.2
32.5°	11827.2	11804.4	11555.0	11266.8	10839.6	10518.7	10059.7	9615.6	8519.7	8343.8	6299.1
35°	12520.7	12528.6	12297.2	11955.4	11548.0	11301.6	10683.6	10104.4	9067.1	8905.2	6672.7
37.5°	13110.9	13074.1	12811.8	12492.9	12142.2	12036.8	11413.9	10642.9	9660.3	9483.4	7070.1
40°	13307.6	13264.9	13093.0	12863.5	12582.3	12573.4	12219.7	11252.9	10330.9	10156.1	7518.2
42.5°	13188.4	13133.7	13063.2	13000.6	12914.1	12953.9	12976.7	11968.3	11068.1	10872.4	8036.8
45°	12748.2	12665.8	12715.4	12851.6	13039.3	13263.9	13660.3	12760.1	11893.8	11729.8	8645.9
47.5°	12071.6	11997.1	12152.1	12443.2	12953.9	13522.2	14307.1	13634.5	12879.4	12716.4	9513.2
50°	11119.8	11141.7	11363.2	11892.8	12664.8	13641.4	15103.9	14792.0	14312.1	14160.1	10696.5
52.5°	9557.9	9561.9	10185.9	11055.2	12152.1	13579.8	15546.1	16271.3	16268.4	16084.6	11823.2
55°	8107.4	8195.8	8689.6	9845.1	11321.5	13333.4	15855.0	16990.7	17553.0	17337.4	12873.4
57.5°	6690.6	6742.2	7210.2	8370.6	10136.2	12676.7	16172.0	17854.1	19033.4	18897.3	14178.9
60°	5079.0	5158.5	5642.4	6714.4	8620.0	11511.3	16201.8	18755.2	20802.9	20665.8	15636.5
62.5°	3296.6	3433.7	3886.8	4891.2	6785.9	9835.1	15510.3	19344.4	22480.0	22431.3	16930.1
65°	1894.7	1998.0	2313.0	3087.9	4681.6	7730.8	13866.0	19117.9	23512.3	23484.5	17413.9
66°	1547.9	1612.5	1854.0	2413.3	3862.9	6788.9	12910.2	18640.0	23614.7	23615.7	17358.3
67.5°	1238.0	1266.8	1375.1	1727.8	2850.5	5381.1	11202.3	17585.8	23487.5	23522.3	16999.6
70°	1024.3	1039.3	1073.0	1158.5	1555.9	3244.9	7951.4	14846.6	22210.8	22237.6	15599.7
72.5°	919.0	928.0	940.9	952.8	1097.9	1813.2	4856.5	11876.9	19473.6	19508.3	13466.6
75°	832.6	837.6	835.6	836.6	921.0	1155.5	2509.7	8867.4	15745.8	15676.2	10316.0
77.5°	731.3	736.2	726.3	728.3	814.7	888.2	1248.9	6207.7	10626.0	10135.2	5812.3
80°	618.0	622.0	618.0	624.9	709.4	670.6	726.3	3492.3	4698.5	4444.1	2066.6
82.5°	467.0	483.9	495.8	523.6	584.2	476.9	485.8	1360.2	1430.7	1362.2	633.9
85°	204.7	249.4	373.6	400.4	439.1	286.1	318.9	554.4	582.2	564.3	230.5
87.5°	53.7	58.6	184.8	232.5	243.4	129.2	165.9	252.4	266.3	252.4	76.5
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°	2672.6	2672.6	2672.6	2672.6	2672.6	2672.6	2672.6	2672.6	2672.6	2672.6	2672.6
2.5°	2702.5	2653.8	2566.3	2488.8	2430.2	2390.5	2350.7	2330.9	2318.9	2307.0	2309.0
5°	2788.9	2690.5	2540.5	2434.2	2374.6	2336.8	2317.0	2309.0	2304.0	2292.1	2292.1
7.5°	2919.0	2779.9	2573.3	2464.0	2417.3	2388.5	2376.6	2372.6	2366.6	2352.7	2354.7
10°	3083.0	2888.2	2641.8	2535.5	2492.8	2461.0	2444.1	2438.2	2427.2	2411.3	2413.3
12.5°	3275.7	3022.4	2732.3	2621.0	2569.3	2526.6	2498.8	2481.9	2463.0	2442.1	2443.1
15°	3486.4	3168.4	2829.6	2697.5	2626.9	2567.3	2522.6	2493.8	2464.0	2438.2	2437.2
17.5°	3700.0	3309.5	2904.1	2739.2	2643.8	2565.3	2504.7	2460.0	2423.3	2391.5	2388.5
20°	3930.5	3436.7	2945.9	2735.2	2612.0	2518.6	2438.2	2382.5	2341.8	2310.0	2305.0
22.5°	4165.0	3555.9	2952.8	2694.5	2541.5	2427.2	2342.8	2281.2	2239.5	2206.7	2194.7
25°	4379.6	3648.3	2924.0	2616.0	2443.1	2319.9	2237.5	2174.9	2141.1	2102.3	2090.4
27.5°	4575.3	3712.9	2866.4	2515.7	2332.9	2211.6	2134.1	2080.5	2043.7	2013.9	2004.0
30°	4751.1	3747.7	2772.0	2396.4	2219.6	2109.3	2043.7	2007.0	1975.2	1937.4	1930.5
32.5°	4918.1	3747.7	2650.8	2266.3	2107.3	2018.9	1980.1	1957.3	1921.5	1884.8	1874.8
35°	5085.0	3724.8	2507.7	2130.2	2004.0	1954.3	1952.3	1925.5	1870.9	1821.2	1808.3
37.5°	5260.8	3678.1	2346.8	2003.0	1919.5	1925.5	1942.4	1882.8	1805.3	1734.7	1715.9
40°	5459.5	3613.5	2179.8	1892.7	1849.0	1912.6	1915.6	1821.2	1670.2	1605.6	1588.7
42.5°	5693.0	3549.0	2024.9	1795.3	1793.4	1873.8	1864.9	1688.0	1597.6	1564.8	1555.9
45°	6000.0	3512.2	1877.8	1702.9	1749.6	1811.2	1778.5	1614.5	1576.8	1557.9	1549.9
47.5°	6483.9	3531.1	1742.7	1629.4	1705.9	1748.6	1617.5	1584.7	1557.9	1535.0	1527.1
50°	7090.0	3520.1	1633.4	1578.7	1656.2	1683.1	1545.0	1546.0	1532.1	1506.2	1494.3
52.5°	7546.0	3434.7	1562.9	1549.9	1612.5	1566.8	1499.3	1508.2	1501.3	1463.5	1450.6
55°	7986.1	3361.2	1527.1	1539.0	1580.7	1421.8	1445.6	1467.5	1460.5	1423.8	1417.8
57.5°	8533.6	3347.3	1505.2	1542.0	1553.9	1349.2	1393.9	1422.8	1417.8	1401.9	1398.9
60°	9204.2	3351.2	1485.4	1547.0	1524.1	1295.6	1345.3	1382.0	1385.0	1382.0	1380.0
62.5°	9572.8	3242.9	1435.7	1533.0	1471.4	1248.9	1294.6	1348.2	1349.2	1355.2	1354.2
65°	9259.9	2919.0	1343.3	1484.4	1383.0	1210.1	1250.9	1309.5	1294.6	1321.4	1321.4
66°	8955.8	2732.3	1297.6	1452.6	1345.3	1195.2	1237.0	1289.6	1270.7	1307.5	1307.5
67.5°	8334.9	2417.3	1215.1	1385.0	1291.6	1174.4	1221.1	1256.8	1231.0	1285.7	1281.7
70°	7200.2	1869.9	1049.2	1232.0	1203.2	1143.6	1199.2	1191.3	1153.5	1237.0	1221.1
72.5°	6070.6	1420.8	842.5	1031.3	1069.1	1104.8	1168.4	1107.8	1060.1	1118.7	1084.0
75°	4710.4	1068.1	665.7	801.8	903.1	1044.2	1131.7	1011.4	942.9	936.9	918.0
77.5°	2546.5	733.2	527.6	612.0	717.3	968.7	1106.8	908.1	804.8	780.9	766.0
80°	1008.5	476.9	383.5	464.0	501.7	859.4	1047.2	787.9	663.7	639.8	617.0
82.5°	416.3	282.2	247.4	311.0	326.9	735.2	939.9	645.8	512.7	709.4	753.1
85°	178.8	155.0	147.0	161.0	184.8	515.7	748.1	492.8	553.4	493.8	392.5
87.5°	53.7	65.6	62.6	61.6	67.6	123.2	398.4	274.2	406.4	154.0	115.3
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)