

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: P317579

Luminaire Tested: **GAN-SA5D-827-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317579
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-SA5D-827-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29700 lumens
Efficiency: N/A
Efficacy: 92.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

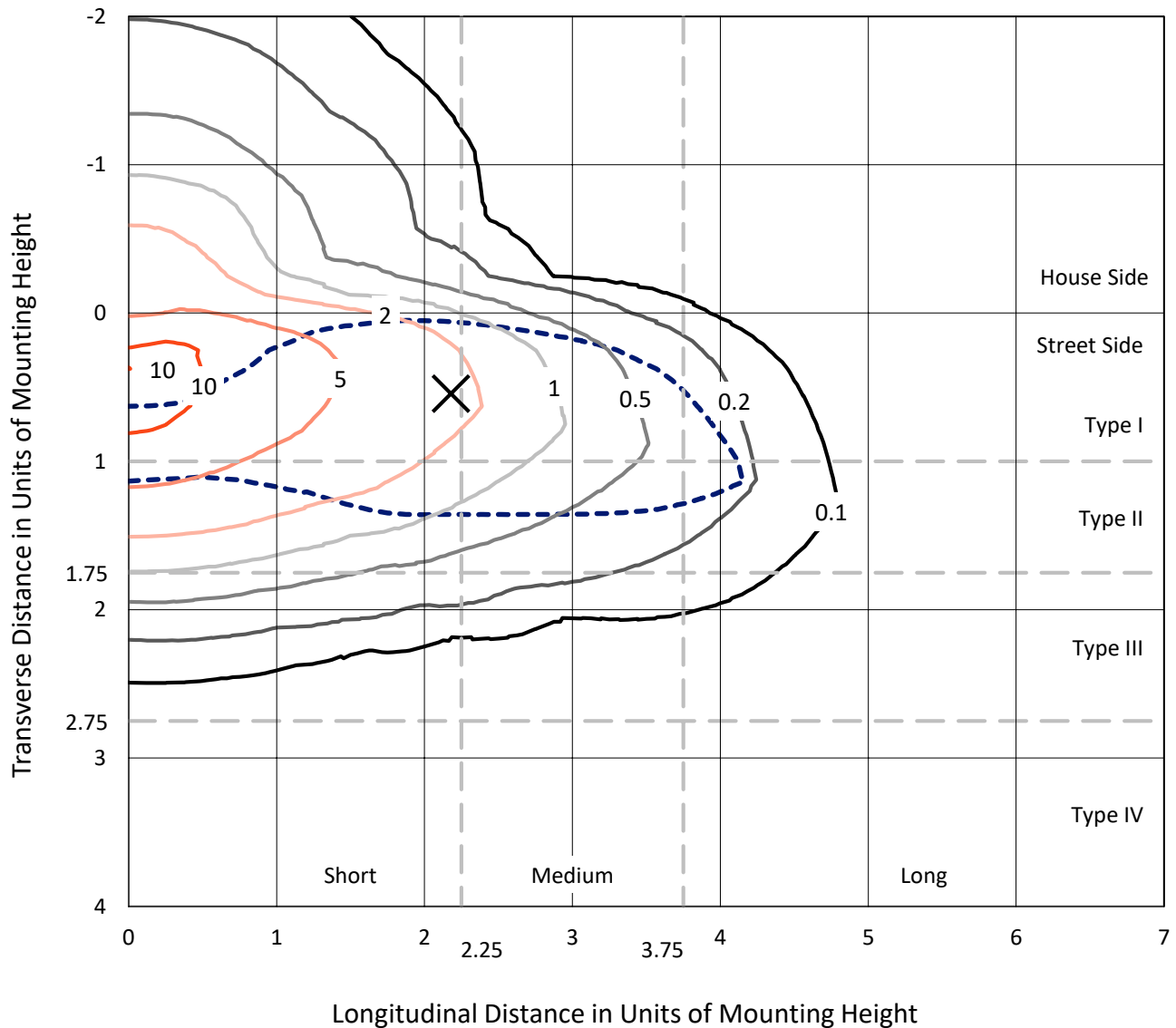
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

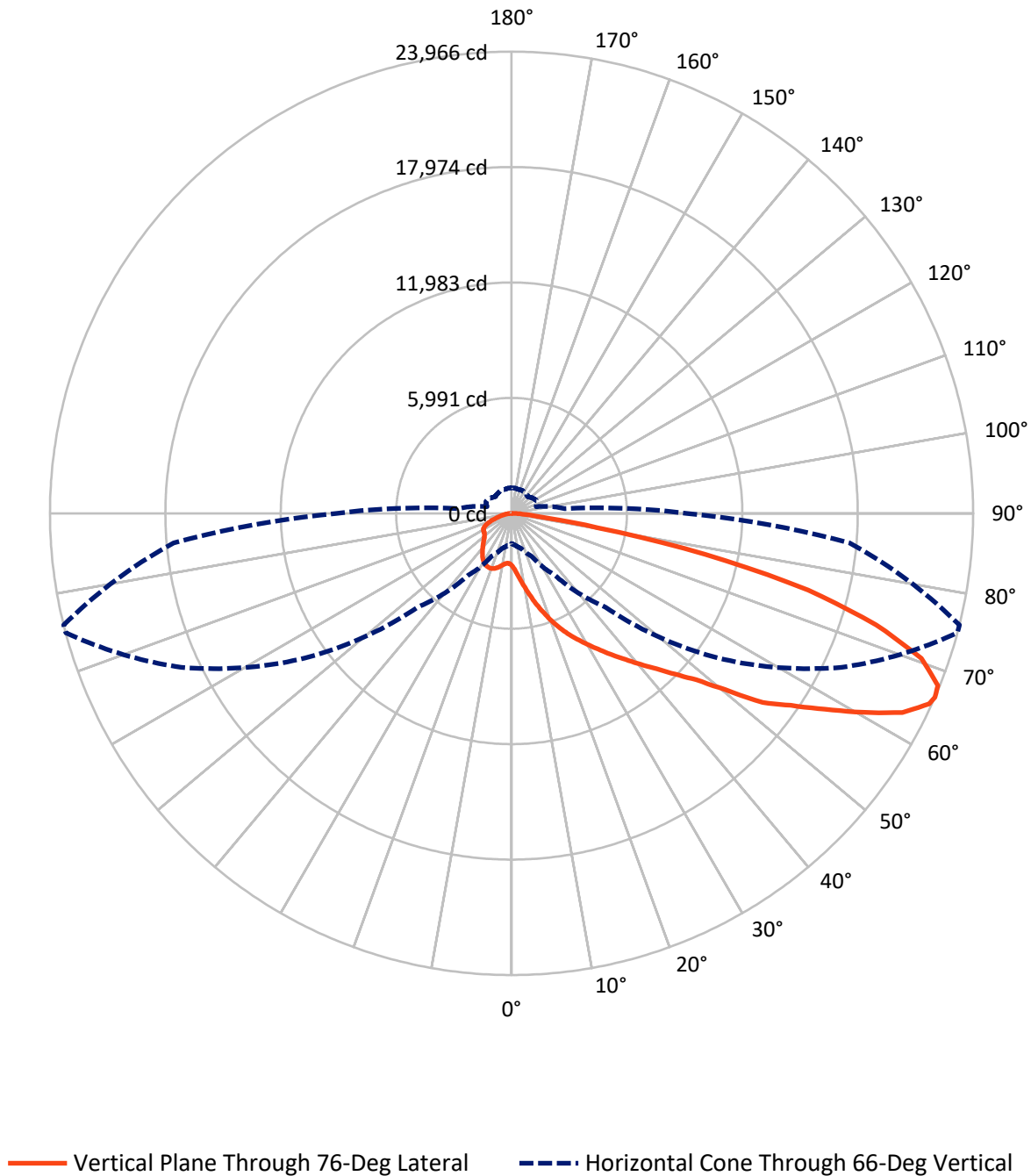
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.5 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	4997.5	0.0	4997.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	24702.5	0.0	24702.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	29700.0	0.0	29700.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	328.0	1.1
10°-20°	1295.2	4.4
20°-30°	2516.9	8.5
30°-40°	4108.1	13.8
40°-50°	5612.7	18.9
50°-60°	6537.7	22.0
60°-70°	5861.1	19.7
70°-80°	2962.0	10.0
80°-90°	478.3	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°	29700.0	100.0
0°-180°	29700.0	100.0

Coefficient of Utilization



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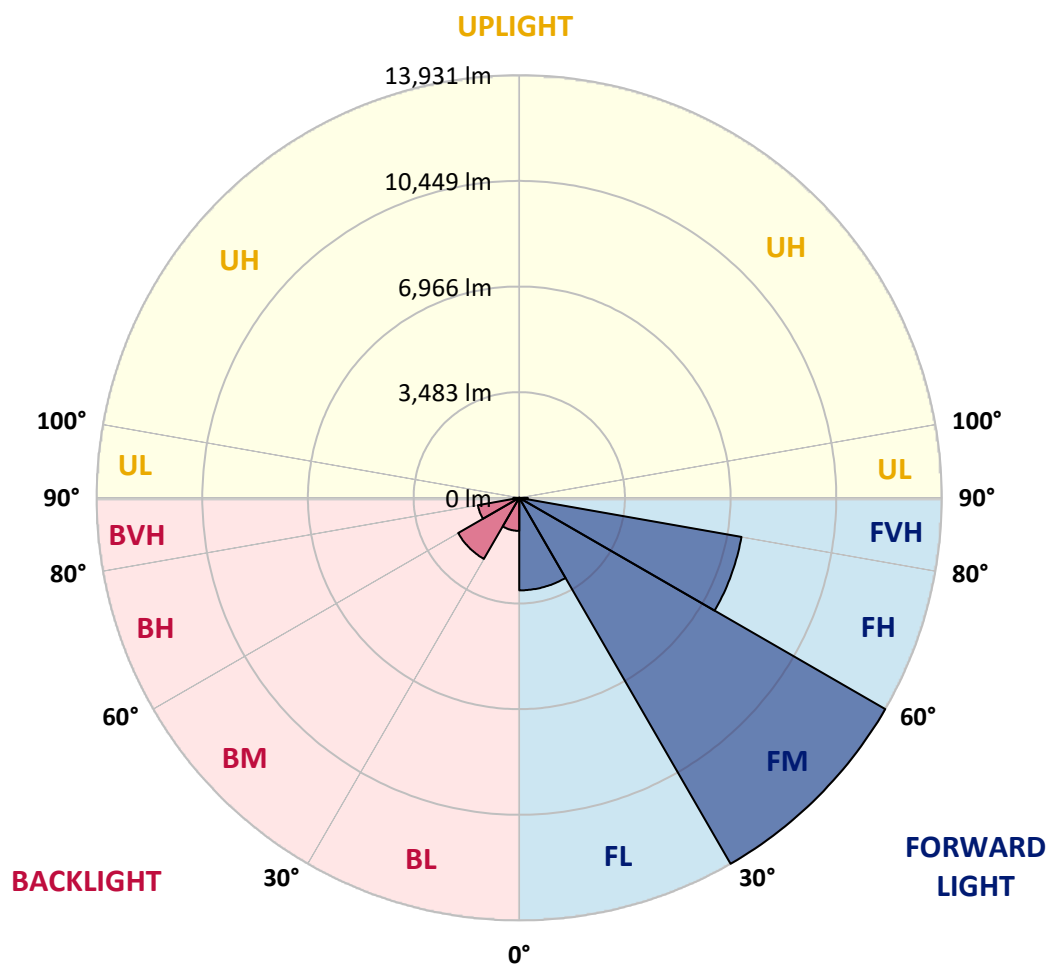
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3050.1	10.3			
FM	(30°-60°)	13931.4	46.9			
FH	(60°-80°)	7438.6	25.0			G3/7500
FVH	(80°-90°)	282.5	1.0			G3/500
BL	(0°-30°)	1090.0	3.7	B3/2500		
BM	(30°-60°)	2327.1	7.8	B2/2500		
BH	(60°-80°)	1384.5	4.7	B3/2500		G3/2500
BVH	(80°-90°)	195.8	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°	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3
2.5°	3600.6	3546.1	3541.1	3461.4	3443.3	3291.0	3179.1	3062.2	2929.1	2902.8	2798.0
5°	4625.0	4620.0	4550.4	4420.3	4318.5	4058.3	3801.2	3529.0	3230.5	3182.1	2946.2
7.5°	5546.6	5538.5	5485.1	5344.9	5197.7	4878.1	4511.1	4093.6	3609.7	3538.1	3146.8
10°	6246.3	6243.3	6225.1	6122.3	5997.3	5690.7	5285.4	4715.7	4050.3	3952.5	3397.9
12.5°	6786.7	6792.8	6804.9	6768.6	6709.1	6448.0	6032.6	5375.2	4520.1	4423.3	3677.2
15°	7152.8	7170.9	7233.4	7284.8	7316.1	7155.8	6753.5	6049.7	5046.5	4930.5	3986.7
17.5°	7337.3	7357.4	7465.3	7620.6	7763.8	7747.6	7428.0	6693.0	5551.6	5439.7	4319.5
20°	7496.6	7511.7	7632.7	7819.2	8072.3	8184.2	8004.8	7312.1	6105.2	5972.1	4672.4
22.5°	7958.4	7977.5	8013.8	8119.7	8343.5	8549.2	8462.5	7897.9	6612.3	6488.3	5007.1
25°	8849.7	8872.9	8794.2	8704.5	8746.9	8890.0	8906.2	8432.3	7126.5	6986.4	5367.1
27.5°	9923.5	9956.8	9822.7	9591.8	9390.1	9334.7	9315.5	8869.9	7617.6	7455.2	5723.0
30°	10975.2	11032.6	10858.2	10558.7	10188.7	9928.6	9736.0	9298.4	8101.5	7946.3	6058.8
32.5°	12002.6	11979.4	11726.3	11433.9	11000.4	10674.7	10208.9	9758.2	8646.0	8467.6	6392.5
35°	12706.4	12714.4	12479.5	12132.7	11719.3	11469.2	10842.1	10254.2	9201.6	9037.2	6771.6
37.5°	13305.3	13268.0	13001.8	12678.1	12322.2	12215.3	11583.1	10800.7	9803.5	9624.1	7174.9
40°	13504.9	13461.6	13287.1	13054.2	12768.9	12759.8	12400.9	11419.8	10484.1	10306.7	7629.7
42.5°	13383.9	13328.5	13256.9	13193.4	13105.7	13146.0	13169.2	12145.8	11232.3	11033.6	8156.0
45°	12937.3	12853.6	12904.0	13042.1	13232.7	13460.6	13862.9	12949.4	12070.1	11903.8	8774.1
47.5°	12250.6	12175.0	12332.3	12627.7	13146.0	13722.7	14519.3	13836.7	13070.4	12905.0	9654.3
50°	11284.7	11306.9	11531.7	12069.1	12852.6	13843.7	15327.9	15011.3	14524.3	14370.0	10855.2
52.5°	9699.7	9703.7	10336.9	11219.2	12332.3	13781.2	15776.6	16512.6	16509.6	16323.1	11998.6
55°	8227.6	8317.3	8818.4	9991.1	11489.4	13531.2	16090.2	17242.6	17813.3	17594.5	13064.3
57.5°	6789.8	6842.2	7317.1	8494.8	10286.5	12864.7	16411.8	18118.8	19315.7	19177.5	14389.2
60°	5154.3	5235.0	5726.0	6814.0	8747.9	11682.0	16442.1	19033.3	21111.4	20972.3	15868.3
62.5°	3345.5	3484.6	3944.4	4963.8	6886.6	9981.0	15740.3	19631.3	22813.4	22764.0	17181.1
65°	1922.8	2027.7	2347.3	3133.7	4751.0	7845.4	14071.6	19401.4	23861.0	23832.8	17672.2
66°	1570.9	1636.4	1881.5	2449.1	3920.2	6889.6	13101.6	18916.4	23964.9	23965.9	17615.7
67.5°	1256.3	1285.6	1395.5	1753.4	2892.8	5460.9	11368.4	17846.6	23835.8	23871.1	17251.7
70°	1039.5	1054.7	1088.9	1175.7	1579.0	3293.1	8069.3	15066.8	22540.2	22567.4	15831.0
72.5°	932.7	941.7	954.8	966.9	1114.2	1840.1	4928.5	12053.0	19762.3	19797.6	13666.3
75°	844.9	850.0	848.0	849.0	934.7	1172.6	2546.9	8998.9	15979.3	15908.7	10469.0
77.5°	742.1	747.1	737.1	739.1	826.8	901.4	1267.4	6299.7	10783.6	10285.5	5898.5
80°	627.2	631.2	627.2	634.2	719.9	680.6	737.1	3544.1	4768.2	4510.0	2097.2
82.5°	473.9	491.0	503.1	531.4	592.9	484.0	493.1	1380.3	1451.9	1382.4	643.3
85°	207.7	253.1	379.1	406.3	445.7	290.4	323.7	562.6	590.9	572.7	233.9
87.5°	54.4	59.5	187.5	235.9	247.0	131.1	168.4	256.1	270.2	256.1	77.6
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°	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3	2712.3
2.5°	2742.5	2693.1	2604.4	2525.7	2466.3	2425.9	2385.6	2365.4	2353.3	2341.2	2343.2
5°	2830.2	2730.4	2578.2	2470.3	2409.8	2371.5	2351.3	2343.2	2338.2	2326.1	2326.1
7.5°	2962.3	2821.2	2611.5	2500.5	2453.2	2423.9	2411.8	2407.8	2401.7	2387.6	2389.6
10°	3128.7	2931.1	2681.0	2573.1	2529.8	2497.5	2480.4	2474.3	2463.2	2447.1	2449.1
12.5°	3324.3	3067.2	2772.8	2659.8	2607.4	2564.1	2535.8	2518.7	2499.5	2478.4	2479.4
15°	3538.1	3215.4	2871.6	2737.5	2665.9	2605.4	2560.0	2530.8	2500.5	2474.3	2473.3
17.5°	3754.8	3358.6	2947.2	2779.8	2683.0	2603.4	2541.9	2496.5	2459.2	2426.9	2423.9
20°	3988.8	3487.6	2989.6	2775.8	2650.8	2556.0	2474.3	2417.9	2376.5	2344.3	2339.2
22.5°	4226.7	3608.6	2996.6	2734.5	2579.2	2463.2	2377.5	2315.0	2272.7	2239.4	2227.3
25°	4444.5	3702.4	2967.4	2654.8	2479.4	2354.3	2270.7	2207.1	2172.8	2133.5	2121.4
27.5°	4643.1	3768.0	2908.9	2553.0	2367.4	2244.4	2165.8	2111.3	2074.0	2043.8	2033.7
30°	4821.6	3803.2	2813.1	2432.0	2252.5	2140.6	2074.0	2036.7	2004.5	1966.2	1959.1
32.5°	4991.0	3803.2	2690.1	2299.9	2138.6	2048.8	2009.5	1986.3	1950.0	1912.7	1902.6
35°	5160.4	3780.1	2544.9	2161.8	2033.7	1983.3	1981.3	1954.1	1898.6	1848.2	1835.1
37.5°	5338.9	3732.7	2381.6	2032.7	1948.0	1954.1	1971.2	1910.7	1832.0	1760.5	1741.3
40°	5540.5	3667.1	2212.2	1920.8	1876.4	1940.9	1944.0	1848.2	1694.9	1629.4	1612.2
42.5°	5777.5	3601.6	2054.9	1822.0	1819.9	1901.6	1892.5	1713.1	1621.3	1588.0	1579.0
45°	6089.0	3564.3	1905.7	1728.2	1775.6	1838.1	1804.8	1638.5	1600.1	1581.0	1572.9
47.5°	6580.1	3583.4	1768.5	1653.6	1731.2	1774.6	1641.5	1608.2	1581.0	1557.8	1549.7
50°	7195.1	3572.3	1657.6	1602.2	1680.8	1708.0	1567.9	1568.9	1554.8	1528.6	1516.5
52.5°	7657.9	3485.6	1586.0	1572.9	1636.4	1590.1	1521.5	1530.6	1523.5	1485.2	1472.1
55°	8104.6	3411.0	1549.7	1561.8	1604.2	1442.9	1467.1	1489.2	1482.2	1444.9	1438.8
57.5°	8660.1	3396.9	1527.5	1564.9	1577.0	1369.2	1414.6	1443.9	1438.8	1422.7	1419.7
60°	9340.7	3400.9	1507.4	1569.9	1546.7	1314.8	1365.2	1402.5	1405.5	1402.5	1400.5
62.5°	9714.8	3291.0	1457.0	1555.8	1493.3	1267.4	1313.8	1368.2	1369.2	1375.3	1374.3
65°	9397.2	2962.3	1363.2	1506.4	1403.5	1228.1	1269.4	1328.9	1313.8	1341.0	1341.0
66°	9088.7	2772.8	1316.8	1474.1	1365.2	1213.0	1255.3	1308.8	1289.6	1326.9	1326.9
67.5°	8458.5	2453.2	1233.1	1405.5	1310.8	1191.8	1239.2	1275.5	1249.3	1304.7	1300.7
70°	7307.0	1897.6	1064.7	1250.3	1221.0	1160.5	1217.0	1208.9	1170.6	1255.3	1239.2
72.5°	6160.6	1441.8	855.0	1046.6	1084.9	1121.2	1185.7	1124.2	1075.8	1135.3	1100.0
75°	4780.3	1083.9	675.5	813.7	916.5	1059.7	1148.4	1026.4	956.9	950.8	931.7
77.5°	2584.2	744.1	535.4	621.1	728.0	983.1	1123.2	921.6	816.7	792.5	777.4
80°	1023.4	484.0	389.2	470.9	509.2	872.2	1062.7	799.6	673.5	649.3	626.1
82.5°	422.5	286.4	251.1	315.6	331.7	746.1	953.8	655.4	520.3	719.9	764.3
85°	181.5	157.3	149.2	163.3	187.5	523.3	759.2	500.1	561.6	501.1	398.3
87.5°	54.4	66.5	63.5	62.5	68.6	125.0	404.3	278.3	412.4	156.3	117.0
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)