

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: P317603

Luminaire Tested: **GAN-SA9B-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317603
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-SA9B-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 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: 42294 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

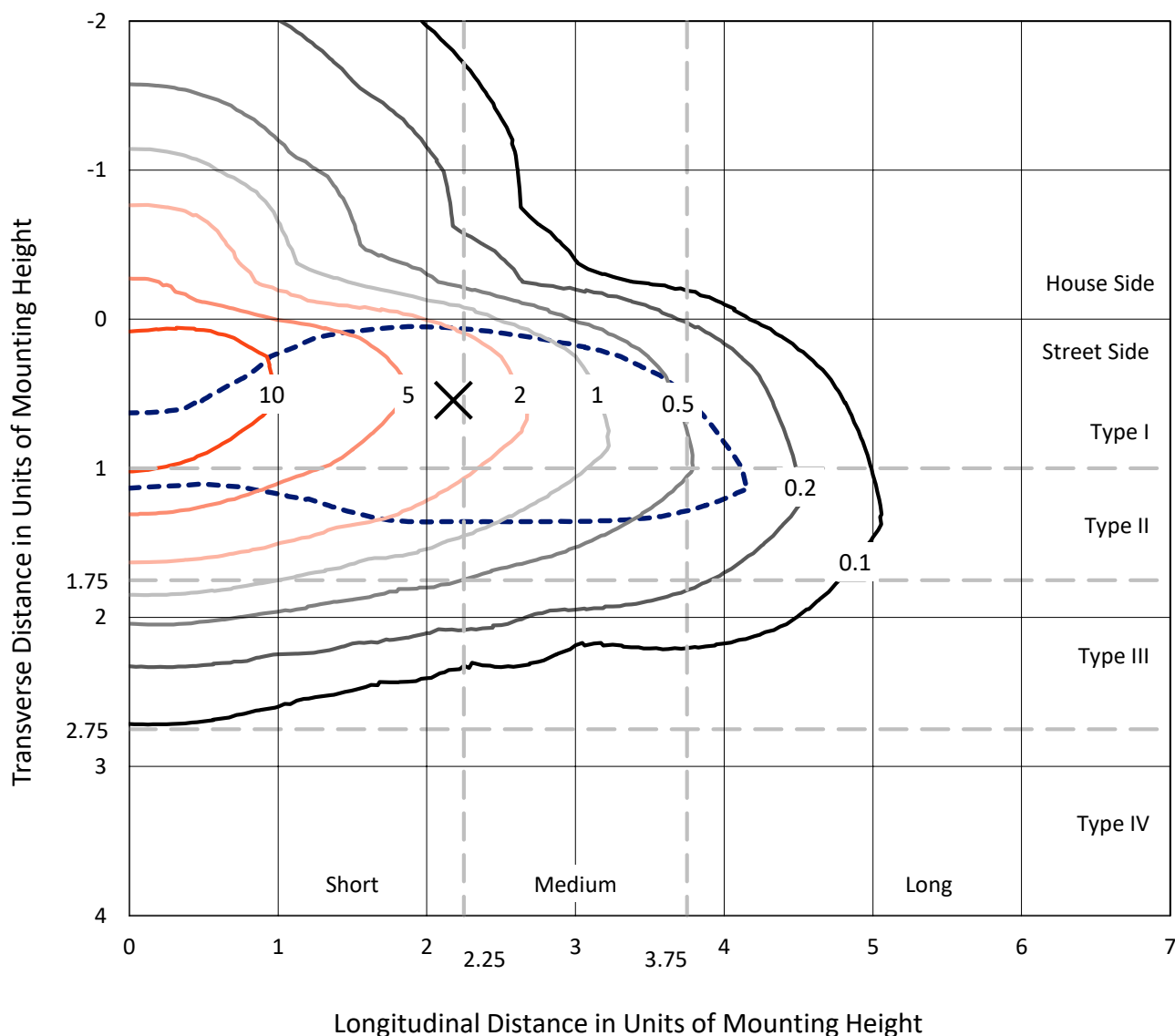
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

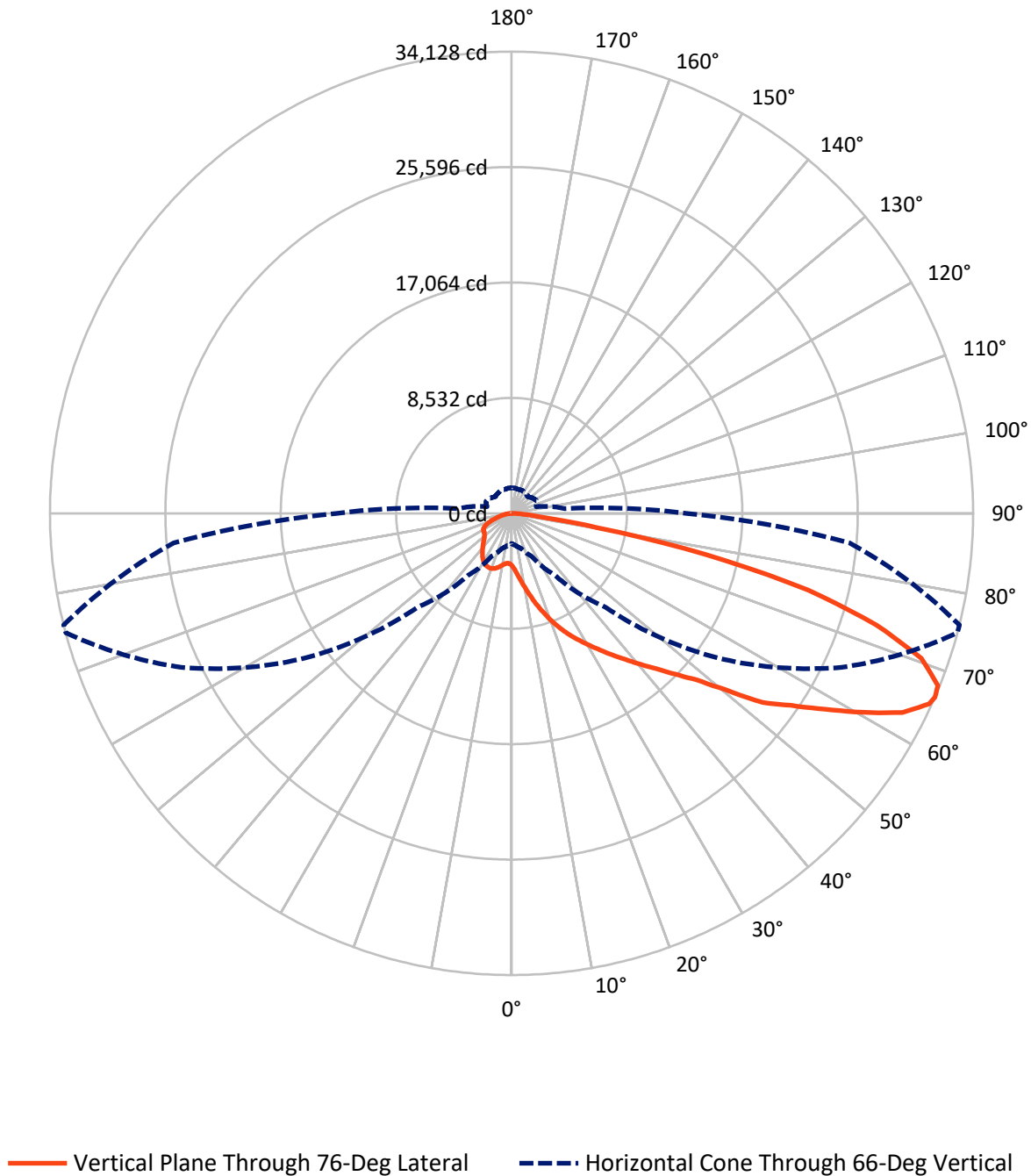
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.4 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	7116.6	0.0	7116.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	35177.4	0.0	35177.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	42294.0	0.0	42294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	467.1	1.1
10°-20°	1844.4	4.4
20°-30°	3584.2	8.5
30°-40°	5850.1	13.8
40°-50°	7992.7	18.9
50°-60°	9309.9	22.0
60°-70°	8346.5	19.7
70°-80°	4218.0	10.0
80°-90°	681.1	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°	42294.0	100.0
0°-180°	42294.0	100.0

Coefficient of Utilization



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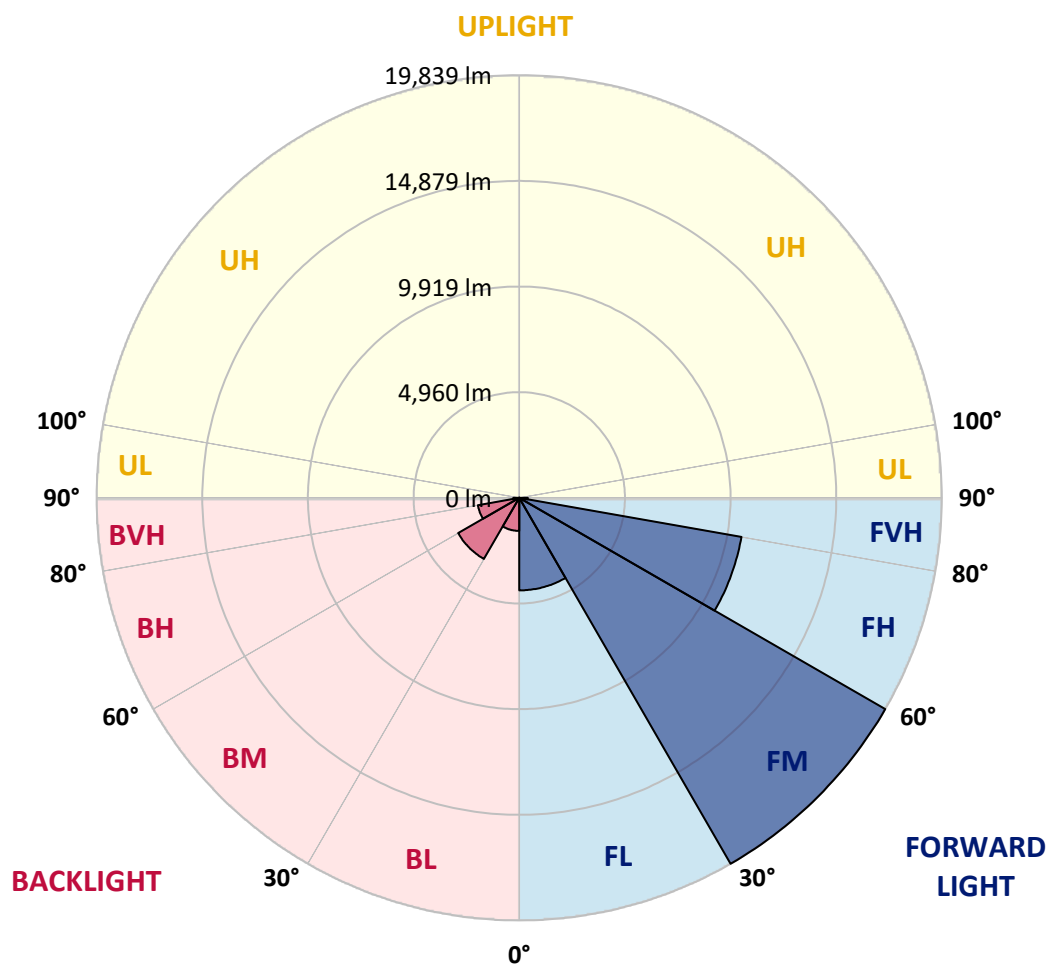
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4343.5	10.3			
FM	(30°-60°)	19838.8	46.9			
FH	(60°-80°)	10592.8	25.0			G4/12000
FVH	(80°-90°)	402.3	1.0			G3/500
BL	(0°-30°)	1552.2	3.7	B3/2500		
BM	(30°-60°)	3313.9	7.8	B3/5000		
BH	(60°-80°)	1971.6	4.7	B3/2500		G3/2500
BVH	(80°-90°)	278.9	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3862.4	3862.4	3862.4	3862.4	3862.4	3862.4	3862.4	3862.4	3862.4	3862.4	3862.4
2.5°	5127.4	5049.8	5042.7	4929.2	4903.4	4686.6	4527.2	4360.6	4171.1	4133.8	3984.4
5°	6586.2	6579.0	6479.9	6294.7	6149.7	5779.2	5413.1	5025.4	4600.4	4531.5	4195.5
7.5°	7898.5	7887.0	7810.9	7611.4	7401.7	6946.6	6423.9	5829.5	5140.3	5038.3	4481.2
10°	8895.0	8890.7	8864.8	8718.4	8540.3	8103.9	7526.6	6715.4	5767.7	5628.5	4838.8
12.5°	9664.6	9673.2	9690.5	9638.8	9554.0	9182.2	8590.6	7654.4	6436.8	6299.0	5236.5
15°	10185.8	10211.7	10300.7	10373.9	10418.4	10190.1	9617.2	8615.0	7186.4	7021.2	5677.3
17.5°	10448.6	10477.3	10630.9	10852.0	11055.9	11033.0	10577.8	9531.1	7905.7	7746.3	6151.1
20°	10675.4	10697.0	10869.3	11134.9	11495.3	11654.7	11399.1	10412.7	8694.0	8504.5	6653.7
22.5°	11333.0	11360.3	11412.0	11562.8	11881.5	12174.4	12051.0	11246.9	9416.2	9239.6	7130.4
25°	12602.3	12635.3	12523.4	12395.6	12455.9	12659.8	12682.7	12007.9	10148.5	9948.9	7642.9
27.5°	14131.5	14178.9	13987.9	13659.1	13371.9	13293.0	13265.7	12631.0	10847.7	10616.6	8149.8
30°	15629.1	15710.9	15462.5	15036.1	14509.1	14138.7	13864.4	13241.3	11536.9	11315.8	8627.9
32.5°	17092.2	17059.2	16698.8	16282.4	15665.0	15201.2	14537.8	13896.0	12312.3	12058.1	9103.2
35°	18094.4	18105.9	17771.3	17277.4	16688.7	16332.6	15439.5	14602.4	13103.4	12869.4	9643.1
37.5°	18947.3	18894.2	18515.1	18054.2	17547.3	17395.1	16494.9	15380.7	13960.6	13705.0	10217.4
40°	19231.6	19169.8	18921.4	18589.8	18183.4	18170.5	17659.3	16262.3	14929.8	14677.1	10865.0
42.5°	19059.3	18980.3	18878.4	18787.9	18663.0	18720.4	18753.4	17296.1	15995.2	15712.3	11614.5
45°	18423.2	18304.0	18375.8	18572.5	18843.9	19168.4	19741.3	18440.4	17188.4	16951.5	12494.6
47.5°	17445.4	17337.7	17561.7	17982.4	18720.4	19541.7	20676.0	19704.0	18612.7	18377.3	13748.1
50°	16069.9	16101.5	16421.6	17186.9	18302.6	19714.0	21827.6	21376.7	20683.2	20463.5	15458.2
52.5°	13812.7	13818.5	14720.2	15976.5	17561.7	19625.0	22466.5	23514.7	23510.4	23244.7	17086.4
55°	11716.4	11844.2	12557.8	14227.7	16361.3	19268.9	22913.1	24554.2	25366.9	25055.3	18604.1
57.5°	9668.9	9743.6	10419.9	12096.9	14648.4	18319.8	23371.1	25802.0	27506.3	27309.6	20490.8
60°	7340.0	7454.9	8154.1	9703.4	12457.3	16635.6	23414.2	27104.3	30063.5	29865.4	22597.2
62.5°	4764.1	4962.2	5617.0	7068.6	9806.8	14213.3	22414.8	27955.7	32487.2	32416.8	24466.6
65°	2738.1	2887.5	3342.6	4462.6	6765.7	11172.2	20038.5	27628.3	33979.0	33938.8	25165.9
66°	2237.0	2330.4	2679.3	3487.6	5582.5	9811.1	18657.2	26937.7	34126.9	34128.4	25085.5
67.5°	1789.1	1830.7	1987.2	2496.9	4119.4	7776.5	16189.0	25414.3	33943.1	33993.4	24567.1
70°	1480.3	1501.9	1550.7	1674.2	2248.5	4689.4	11491.0	21455.7	32098.1	32136.9	22544.0
72.5°	1328.1	1341.1	1359.7	1377.0	1586.6	2620.4	7018.4	17164.0	28142.4	28192.6	19461.3
75°	1203.2	1210.4	1207.5	1209.0	1331.0	1669.9	3626.9	12814.8	22755.1	22654.6	14908.3
77.5°	1056.8	1064.0	1049.6	1052.5	1177.4	1283.6	1804.8	8971.1	15356.3	14647.0	8399.6
80°	893.1	898.8	893.1	903.1	1025.2	969.2	1049.6	5047.0	6790.1	6422.5	2986.5
82.5°	674.8	699.3	716.5	756.7	844.3	689.2	702.1	1965.7	2067.6	1968.5	916.1
85°	295.8	360.4	539.9	578.6	634.6	413.5	460.9	801.2	841.4	815.6	333.1
87.5°	77.5	84.7	267.1	336.0	351.8	186.7	239.8	364.7	384.8	364.7	110.6
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°	3862.4	3862.4	3862.4	3862.4	3862.4	3862.4	3862.4	3862.4	3862.4	3862.4	3862.4
2.5°	3905.5	3835.1	3708.8	3596.8	3512.1	3454.6	3397.2	3368.5	3351.2	3334.0	3336.9
5°	4030.4	3888.2	3671.4	3517.8	3431.6	3377.1	3348.4	3336.9	3329.7	3312.5	3312.5
7.5°	4218.5	4017.5	3718.8	3560.9	3493.4	3451.7	3434.5	3428.8	3420.2	3400.1	3402.9
10°	4455.4	4174.0	3817.9	3664.3	3602.5	3556.6	3532.2	3523.5	3507.7	3484.8	3487.6
12.5°	4733.9	4367.8	3948.5	3787.7	3713.1	3651.3	3611.1	3586.7	3559.4	3529.3	3530.7
15°	5038.3	4578.9	4089.3	3898.3	3796.3	3710.2	3645.6	3603.9	3560.9	3523.5	3522.1
17.5°	5347.0	4782.8	4196.9	3958.6	3820.8	3707.3	3619.7	3555.1	3502.0	3456.1	3451.7
20°	5680.2	4966.6	4257.3	3952.9	3774.8	3639.8	3523.5	3443.1	3384.3	3338.3	3331.1
22.5°	6019.0	5138.9	4267.3	3894.0	3672.9	3507.7	3385.7	3296.7	3236.4	3189.0	3171.8
25°	6329.2	5272.4	4225.7	3780.6	3530.7	3352.7	3233.5	3143.0	3094.2	3038.2	3021.0
27.5°	6612.0	5365.7	4142.4	3635.5	3371.3	3196.2	3084.2	3006.6	2953.5	2910.4	2896.1
30°	6866.2	5416.0	4006.0	3463.2	3207.7	3048.3	2953.5	2900.4	2854.4	2799.9	2789.8
32.5°	7107.4	5416.0	3830.8	3275.1	3045.4	2917.6	2861.6	2828.6	2776.9	2723.8	2709.4
35°	7348.6	5382.9	3624.0	3078.4	2896.1	2824.3	2821.4	2782.6	2703.7	2631.9	2613.2
37.5°	7602.7	5315.5	3391.4	2894.6	2774.0	2782.6	2807.1	2720.9	2608.9	2507.0	2479.7
40°	7889.9	5222.1	3150.2	2735.3	2672.1	2764.0	2768.3	2631.9	2413.6	2320.3	2295.9
42.5°	8227.3	5128.8	2926.2	2594.6	2591.7	2708.0	2695.1	2439.5	2308.8	2261.4	2248.5
45°	8671.0	5075.7	2713.7	2461.0	2528.5	2617.5	2570.1	2333.2	2278.7	2251.4	2239.9
47.5°	9370.3	5103.0	2518.5	2354.8	2465.3	2527.1	2337.5	2290.2	2251.4	2218.4	2206.9
50°	10246.1	5087.2	2360.5	2281.5	2393.5	2432.3	2232.7	2234.2	2214.1	2176.7	2159.5
52.5°	10905.2	4963.7	2258.6	2239.9	2330.4	2264.3	2166.7	2179.6	2169.5	2115.0	2096.3
55°	11541.2	4857.4	2206.9	2224.1	2284.4	2054.7	2089.1	2120.7	2110.7	2057.6	2048.9
57.5°	12332.4	4837.3	2175.3	2228.4	2245.6	1949.9	2014.5	2056.1	2048.9	2026.0	2021.7
60°	13301.6	4843.1	2146.6	2235.6	2202.6	1872.3	1944.1	1997.2	2001.6	1997.2	1994.4
62.5°	13834.3	4686.6	2074.8	2215.5	2126.5	1804.8	1870.9	1948.4	1949.9	1958.5	1957.0
65°	13382.0	4218.5	1941.2	2145.1	1998.7	1748.8	1807.7	1892.4	1870.9	1909.7	1909.7
66°	12942.6	3948.5	1875.2	2099.2	1944.1	1727.3	1787.6	1863.7	1836.4	1889.6	1889.6
67.5°	12045.2	3493.4	1756.0	2001.6	1866.6	1697.2	1764.6	1816.3	1779.0	1858.0	1852.2
70°	10405.5	2702.2	1516.2	1780.4	1738.8	1652.6	1733.1	1721.6	1667.0	1787.6	1764.6
72.5°	8773.0	2053.2	1217.6	1490.4	1545.0	1596.6	1688.5	1601.0	1532.0	1616.8	1566.5
75°	6807.3	1543.5	962.0	1158.7	1305.2	1509.1	1635.4	1461.7	1362.6	1354.0	1326.7
77.5°	3680.0	1059.6	762.4	884.5	1036.7	1399.9	1599.5	1312.4	1163.0	1128.6	1107.0
80°	1457.4	689.2	554.2	670.5	725.1	1242.0	1513.4	1138.6	959.1	924.7	891.7
82.5°	601.6	407.8	357.5	449.4	472.4	1062.5	1358.3	933.3	740.9	1025.2	1088.4
85°	258.5	224.0	212.5	232.6	267.1	745.2	1081.2	712.2	799.8	713.6	567.2
87.5°	77.5	94.8	90.5	89.0	97.6	178.0	575.8	396.3	587.3	222.6	166.6
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)