

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: P317994

Luminaire Tested: **GAN-SA0A-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317994
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0A-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37854 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

Input Watts (W): 323
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

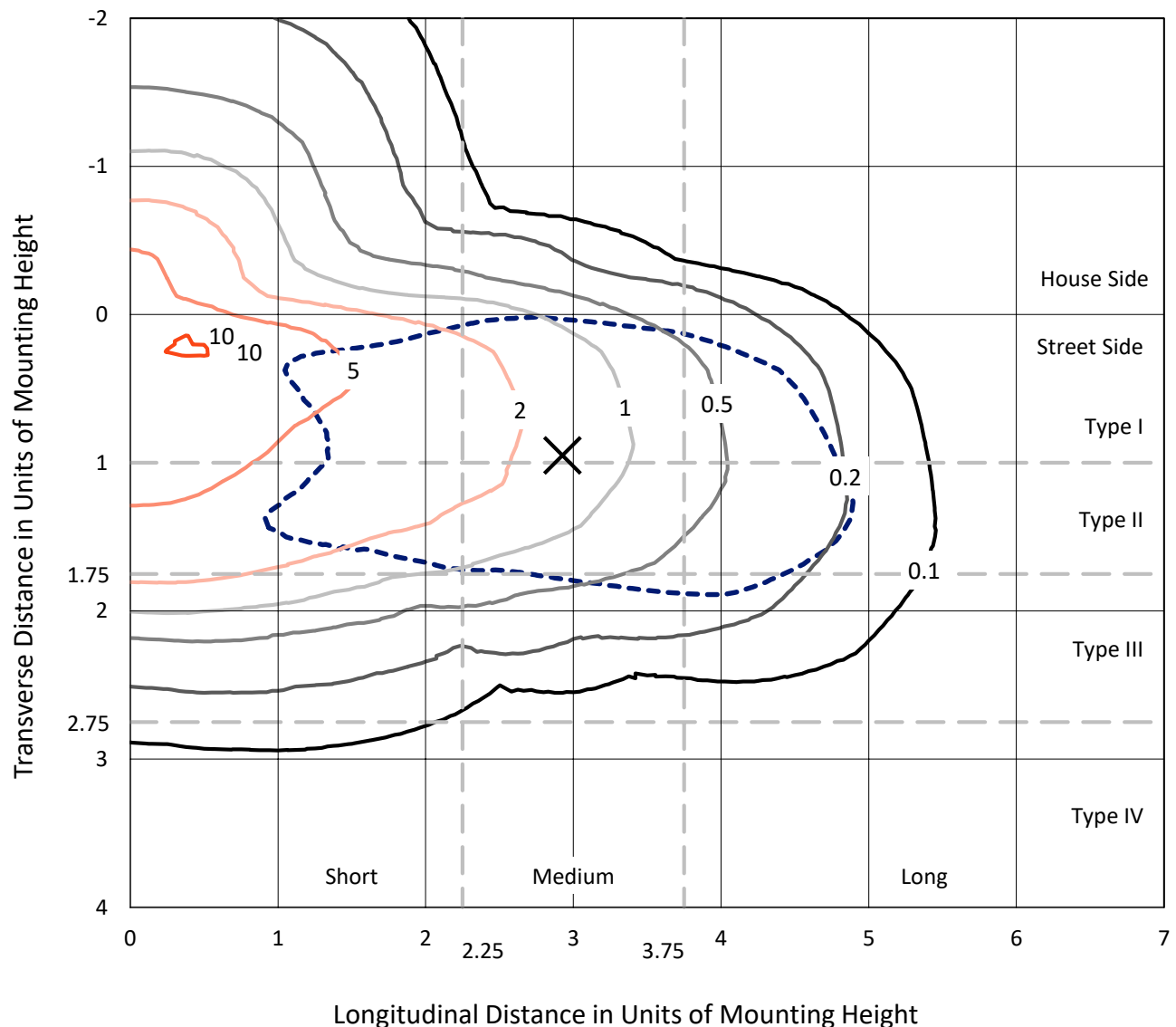


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Iso-Footcandle Lines of Horizontal Illumination

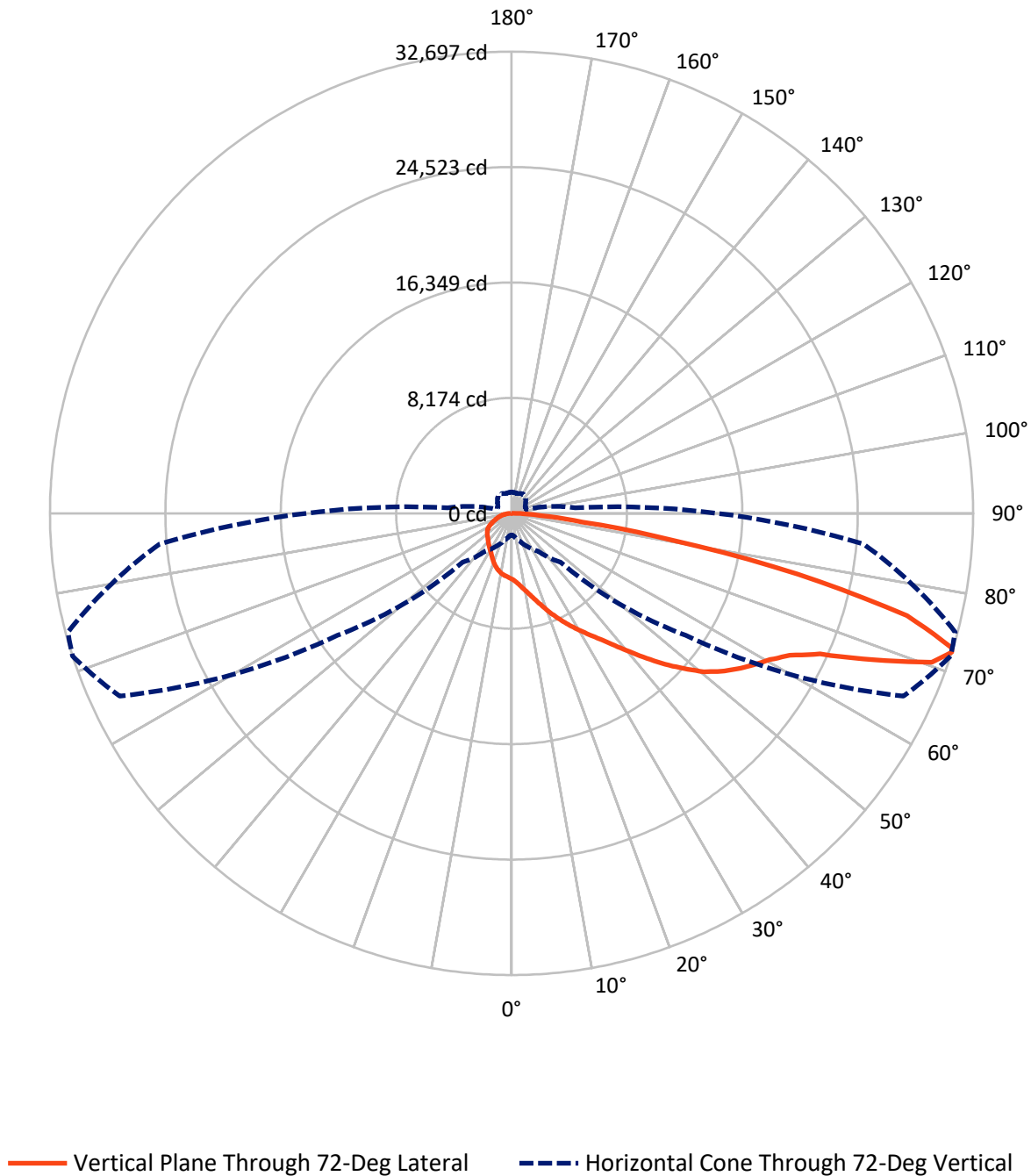
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7022.2	0.0	7022.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	30831.8	0.0	30831.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	37854.0	0.0	37854.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	466.6	1.2
10°-20°	1508.0	4.0
20°-30°	2642.5	7.0
30°-40°	3917.9	10.4
40°-50°	5730.3	15.1
50°-60°	7884.8	20.8
60°-70°	8778.2	23.2
70°-80°	5948.1	15.7
80°-90°	977.6	2.6
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°	37854.0	100.0
0°-180°	37854.0	100.0

Coefficient of Utilization



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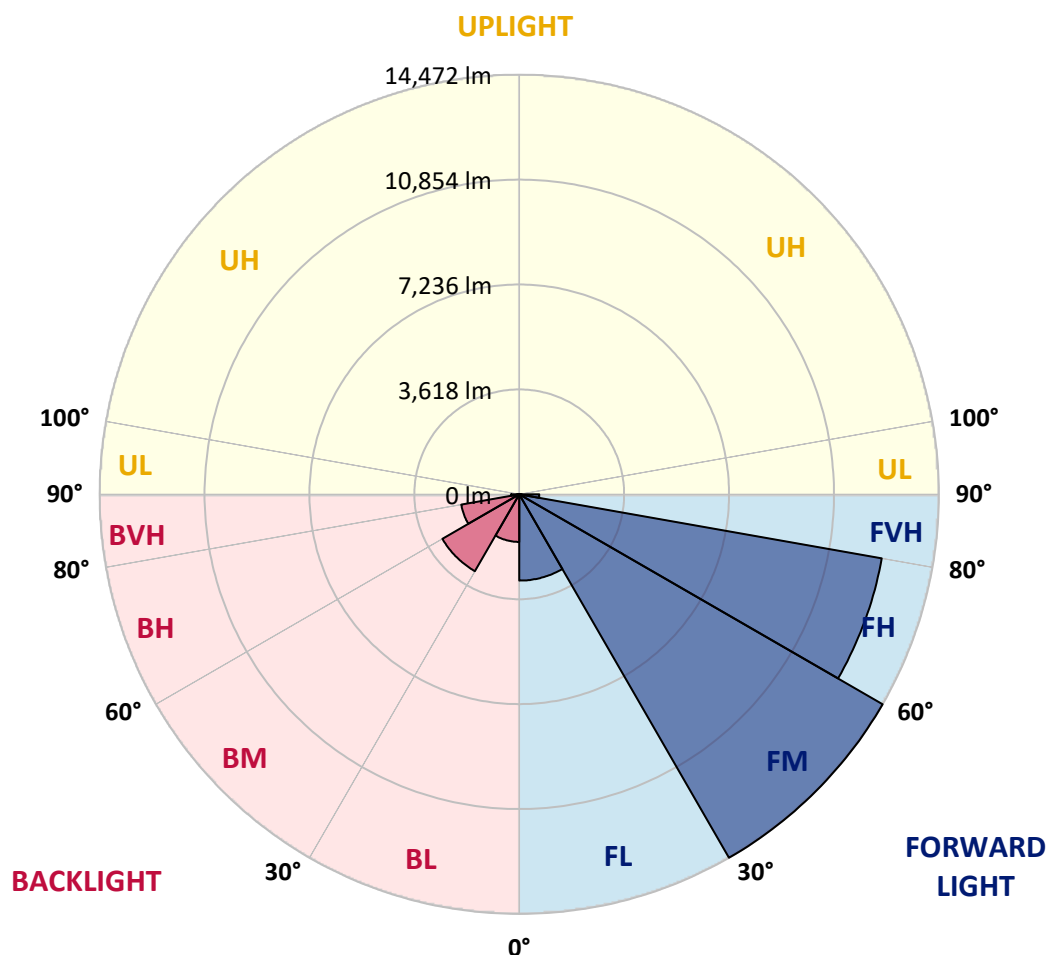
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2975.5	7.9			
FM	(30°-60°)	14472.1	38.2			
FH	(60°-80°)	12694.6	33.5			G5
FVH	(80°-90°)	689.6	1.8			G4/750
BL	(0°-30°)	1641.5	4.3	B3/2500		
BM	(30°-60°)	3061.0	8.1	B3/5000		
BH	(60°-80°)	2031.6	5.4	B3/2500		G3/2500
BVH	(80°-90°)	288.0	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4657.0	4657.0	4657.0	4657.0	4657.0	4657.0	4657.0	4657.0	4657.0	4657.0	4657.0
2.5°	5144.5	5136.7	5109.3	5109.3	5057.2	5012.9	4929.4	4873.4	4806.9	4783.5	4705.3
5°	5642.4	5645.0	5611.1	5587.7	5510.8	5416.9	5274.8	5145.8	5016.8	4964.6	4804.3
7.5°	6060.8	6055.6	6046.4	6026.9	5955.2	5858.8	5667.2	5475.6	5285.3	5207.1	4930.7
10°	6329.3	6341.0	6348.8	6358.0	6328.0	6258.9	6077.7	5844.4	5595.5	5488.6	5081.9
12.5°	6464.8	6485.7	6522.2	6584.8	6634.3	6626.5	6494.8	6247.2	5951.3	5817.1	5270.9
15°	6544.3	6571.7	6629.1	6741.2	6880.6	6960.1	6924.9	6700.8	6371.0	6205.5	5501.6
17.5°	6593.9	6616.0	6704.7	6854.6	7061.8	7272.9	7365.5	7177.8	6845.4	6656.4	5766.2
20°	6627.8	6644.7	6755.5	6931.5	7200.0	7536.2	7794.3	7747.4	7368.1	7123.1	6042.5
22.5°	6703.4	6717.7	6823.3	7000.5	7297.7	7731.7	8207.5	8277.9	7919.4	7641.8	6338.4
25°	6914.5	6914.5	7003.1	7127.0	7405.9	7901.2	8556.8	8868.3	8482.5	8159.3	6612.1
27.5°	7317.3	7313.3	7345.9	7388.9	7600.1	8073.2	8868.3	9389.7	9066.4	8713.2	6878.0
30°	7794.3	7820.4	7824.3	7803.4	7902.5	8288.3	9156.3	9939.7	9654.2	9273.7	7150.4
32.5°	8408.2	8425.1	8405.6	8336.5	8322.2	8593.3	9439.2	10515.8	10290.3	9858.9	7399.4
35°	9187.6	9155.0	9093.8	8953.0	8818.8	9001.2	9762.4	11091.9	11004.6	10566.6	7742.2
37.5°	10023.1	10024.4	9948.8	9629.5	9444.4	9522.6	10208.2	11744.9	11868.7	11408.6	8181.4
40°	10693.1	10728.2	10775.2	10355.5	10115.6	10223.8	10775.2	12502.2	12890.6	12407.0	8753.6
42.5°	11161.0	11201.4	11334.3	11071.0	10822.1	11022.8	11442.5	13310.3	14037.6	13559.2	9423.5
45°	11656.3	11678.4	11772.3	11658.9	11499.9	11952.1	12194.6	14147.0	15251.0	14787.0	10173.0
47.5°	12177.6	12201.1	12297.5	12221.9	12138.5	12820.2	12979.2	14935.6	16413.7	16136.0	10973.3
50°	12821.5	12837.1	12928.4	12791.5	12817.6	13474.5	13680.4	15659.0	17632.3	17348.2	11776.2
52.5°	13700.0	13703.9	13830.3	13706.5	13584.0	13954.1	14283.9	16340.7	18587.7	18453.5	12579.1
55°	14388.2	14429.9	14844.4	14818.3	14747.9	14389.5	14788.3	16989.8	19440.1	19504.0	13431.5
57.5°	13948.9	14111.9	14951.2	15543.0	16119.1	15472.6	15470.0	17721.0	20232.6	20535.0	14368.6
60°	12216.7	12438.3	13675.2	14987.7	16790.3	17357.3	16885.5	18613.8	21032.9	21556.8	15543.0
62.5°	8724.9	9089.9	10766.0	12861.9	15870.1	18606.0	19766.0	20030.6	22121.2	22740.3	17069.3
65°	4410.7	4687.0	6092.1	8616.7	12679.4	17790.0	22896.7	23132.7	24012.4	24562.5	19419.3
67.5°	2679.8	2784.1	3469.6	4792.6	7773.4	13857.7	23918.6	28303.2	27672.4	27964.3	22770.3
70°	1974.6	2051.5	2479.1	3182.9	4470.6	8131.9	20782.6	31993.1	31578.6	31546.1	25246.8
72°	1538.0	1594.1	1972.0	2571.6	3268.9	4878.6	15063.3	30631.1	32697.0	32532.7	25020.0
72.5°	1458.5	1508.0	1852.1	2420.4	3089.0	4422.4	13543.6	29712.2	32616.2	32541.9	24726.7
75°	1148.3	1183.5	1371.2	1871.7	2417.8	2509.0	7421.5	23025.8	28934.1	30137.1	22239.8
77.5°	950.2	955.4	1054.4	1362.0	1884.7	1773.9	3645.6	15975.7	20718.8	22041.7	15754.1
80°	774.2	780.7	827.7	955.4	1425.9	1312.5	1730.9	9186.3	11600.2	11614.6	7491.9
82.5°	616.5	617.8	669.9	698.6	1024.5	938.4	991.9	4312.9	5068.9	4876.0	2692.8
85°	434.0	424.9	654.3	573.5	669.9	602.2	547.4	1707.4	2095.9	2004.6	843.3
87.5°	144.7	149.9	290.7	371.5	391.0	341.5	243.7	654.3	791.2	784.6	267.2
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°	4657.0	4657.0	4657.0	4657.0	4657.0	4657.0	4657.0	4657.0	4657.0	4657.0	4657.0
2.5°	4680.5	4638.8	4577.5	4509.7	4456.3	4401.6	4361.2	4340.3	4316.8	4297.3	4320.8
5°	4730.0	4651.8	4521.5	4393.7	4299.9	4216.5	4156.5	4125.2	4096.6	4077.0	4079.6
7.5°	4810.8	4684.4	4465.4	4279.0	4148.7	4058.8	3997.5	3976.7	3958.4	3953.2	3959.7
10°	4896.9	4710.5	4391.1	4143.5	3994.9	3920.6	3893.2	3907.6	3920.6	3932.3	3945.4
12.5°	4994.6	4733.9	4283.0	3984.5	3858.0	3829.4	3856.7	3919.3	3964.9	3992.3	4009.2
15°	5122.3	4754.8	4157.8	3825.5	3740.7	3773.3	3865.9	3974.1	4053.6	4104.4	4112.2
17.5°	5239.6	4753.5	3997.5	3665.1	3645.6	3740.7	3880.2	4032.7	4139.6	4211.3	4225.6
20°	5360.9	4718.3	3811.1	3508.7	3549.1	3705.6	3886.7	4070.5	4199.5	4283.0	4302.5
22.5°	5474.3	4657.0	3606.5	3366.7	3468.3	3658.6	3862.0	4048.3	4177.4	4245.2	4266.0
25°	5551.2	4550.2	3399.3	3246.8	3396.6	3601.3	3781.1	3931.0	4027.5	4061.4	4066.6
27.5°	5590.3	4410.7	3203.7	3142.5	3322.4	3507.4	3631.3	3705.6	3732.9	3730.3	3725.1
30°	5595.5	4226.9	3035.6	3057.8	3236.3	3369.3	3427.9	3413.6	3378.4	3318.4	3323.7
32.5°	5578.5	4019.7	2894.8	2977.0	3126.8	3201.1	3203.7	3134.7	3040.8	2945.7	2919.6
35°	5583.7	3816.3	2771.0	2885.7	2993.9	3026.5	2996.5	2894.8	2767.1	2644.6	2618.5
37.5°	5641.1	3639.1	2664.1	2780.1	2846.6	2854.4	2811.4	2704.5	2610.7	2490.8	2480.4
40°	5777.9	3512.6	2562.5	2661.5	2699.3	2703.2	2642.0	2566.4	2574.2	2510.3	2509.0
42.5°	6024.3	3457.9	2472.5	2537.7	2561.2	2569.0	2522.1	2473.8	2541.6	2499.9	2485.6
45°	6342.3	3470.9	2396.9	2416.5	2459.5	2496.0	2467.3	2408.7	2434.7	2253.6	2193.6
47.5°	6709.9	3554.4	2337.0	2312.2	2386.5	2455.6	2411.3	2322.6	2230.1	2050.2	2016.4
50°	7140.0	3683.4	2282.2	2209.3	2307.0	2400.9	2356.5	2230.1	2090.6	2003.3	1991.6
52.5°	7588.4	3841.1	2227.5	2095.9	2206.6	2359.1	2337.0	2209.3	2037.2	1951.2	1935.5
55°	8096.7	4000.1	2158.4	1964.2	2098.5	2339.6	2327.9	2133.7	1996.8	1948.6	1936.8
57.5°	8728.8	4181.3	2067.2	1827.4	1996.8	2269.2	2232.7	2088.0	1955.1	1918.6	1914.7
60°	9552.6	4448.5	1935.5	1681.4	1873.0	2161.0	2153.2	2021.6	1888.6	1862.6	1857.3
62.5°	10788.2	4890.3	1754.4	1535.4	1734.8	1977.2	2048.9	1931.6	1818.2	1816.9	1819.5
65°	12704.2	5555.1	1557.6	1407.7	1595.4	1822.1	1927.7	1839.1	1746.5	1772.6	1776.5
67.5°	14925.2	6106.4	1364.7	1282.5	1453.3	1674.9	1818.2	1746.5	1651.4	1719.2	1720.5
70°	15664.2	5613.7	1195.2	1158.7	1306.0	1532.8	1699.6	1644.9	1548.4	1616.2	1609.7
72°	14577.2	4531.9	1085.7	1064.9	1195.2	1415.5	1594.1	1549.7	1454.6	1500.2	1483.3
72.5°	14234.4	4320.8	1058.4	1041.4	1165.2	1385.5	1566.7	1526.3	1431.1	1470.2	1454.6
75°	12697.7	3752.5	909.8	913.7	1016.6	1239.5	1412.9	1399.8	1302.1	1306.0	1300.8
77.5°	9209.8	2751.5	766.4	792.5	865.5	1089.6	1257.8	1250.0	1143.1	1123.5	1119.6
80°	4273.8	1403.8	624.3	636.1	711.7	911.1	1072.7	1062.3	976.2	951.5	937.1
82.5°	1463.7	667.3	469.2	477.0	551.3	733.8	930.6	924.1	852.4	804.2	774.2
85°	522.7	332.4	328.5	320.6	393.6	577.4	810.7	775.5	669.9	570.9	568.3
87.5°	169.4	142.1	169.4	168.1	229.4	391.0	589.1	501.8	486.2	404.1	396.2
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)