

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: P317372

Luminaire Tested: **GAN-SA8C-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317372
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-SA8C-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 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: 49389 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 445
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

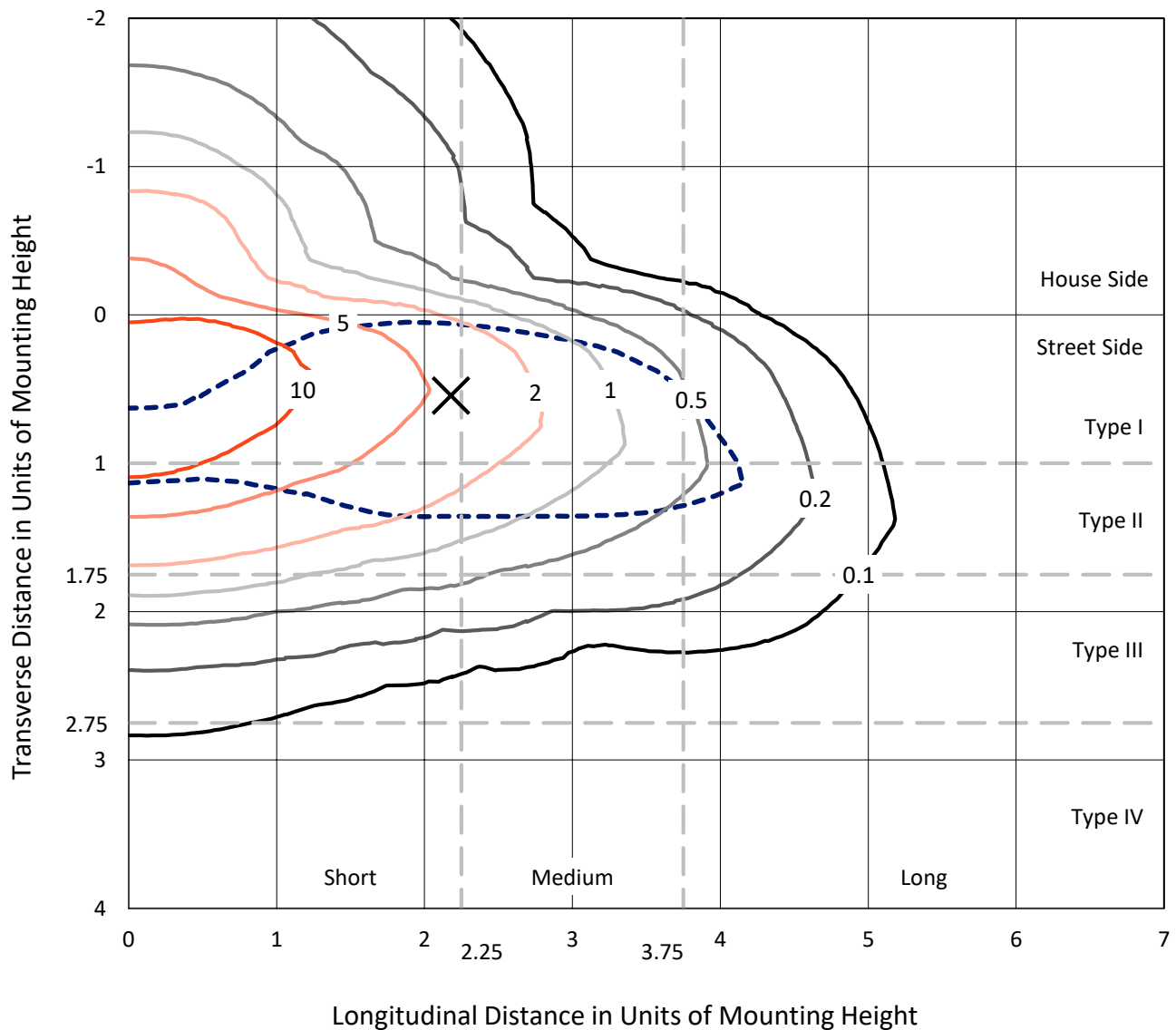


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Iso-Footcandle Lines of Horizontal Illumination

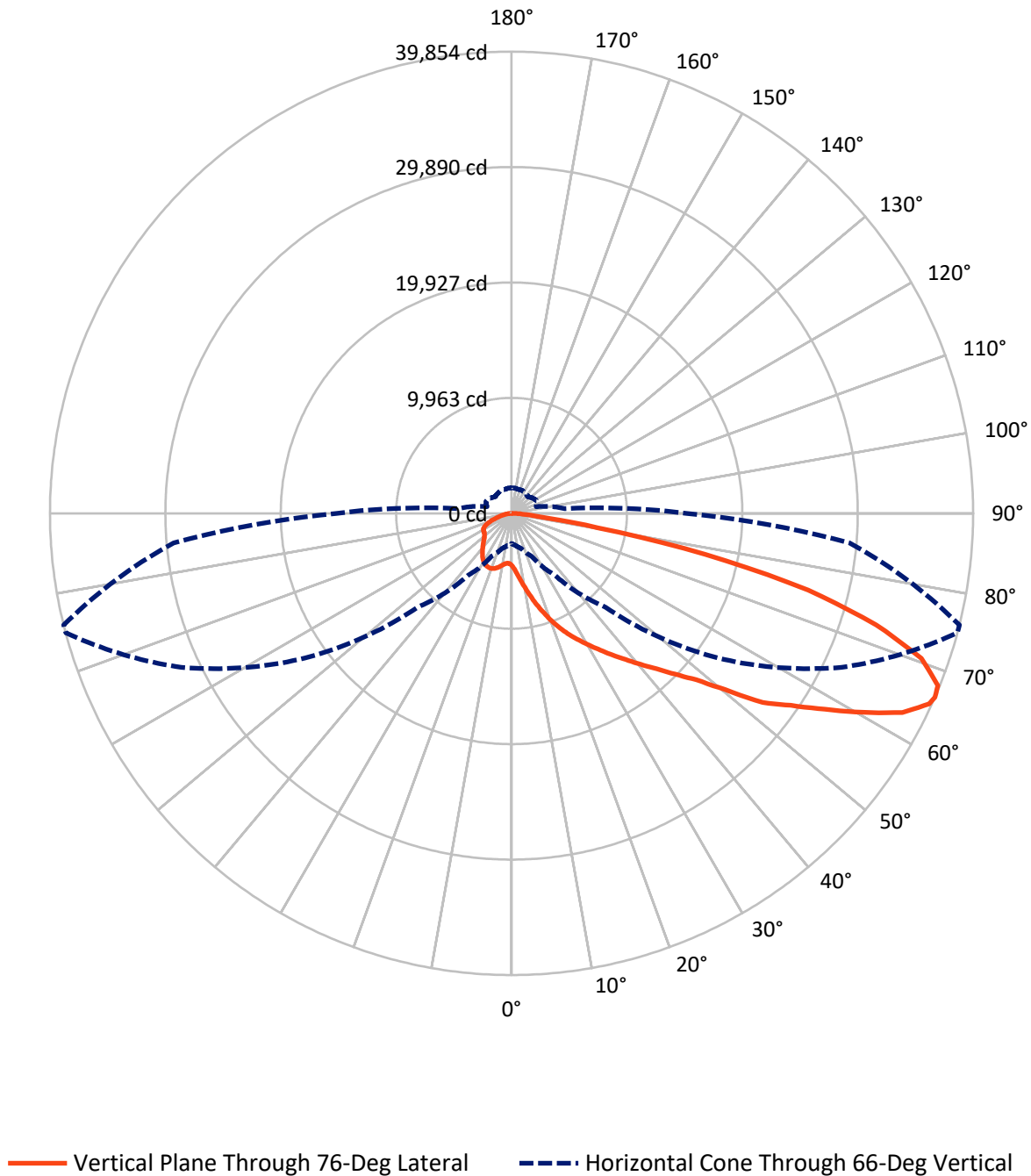
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.1 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	8310.5	0.0	8310.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	41078.5	0.0	41078.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	49389.0	0.0	49389.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	545.4	1.1
10°-20°	2153.8	4.4
20°-30°	4185.4	8.5
30°-40°	6831.5	13.8
40°-50°	9333.5	18.9
50°-60°	10871.7	22.0
60°-70°	9746.7	19.7
70°-80°	4925.5	10.0
80°-90°	795.4	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°	49389.0	100.0
0°-180°	49389.0	100.0

Coefficient of Utilization



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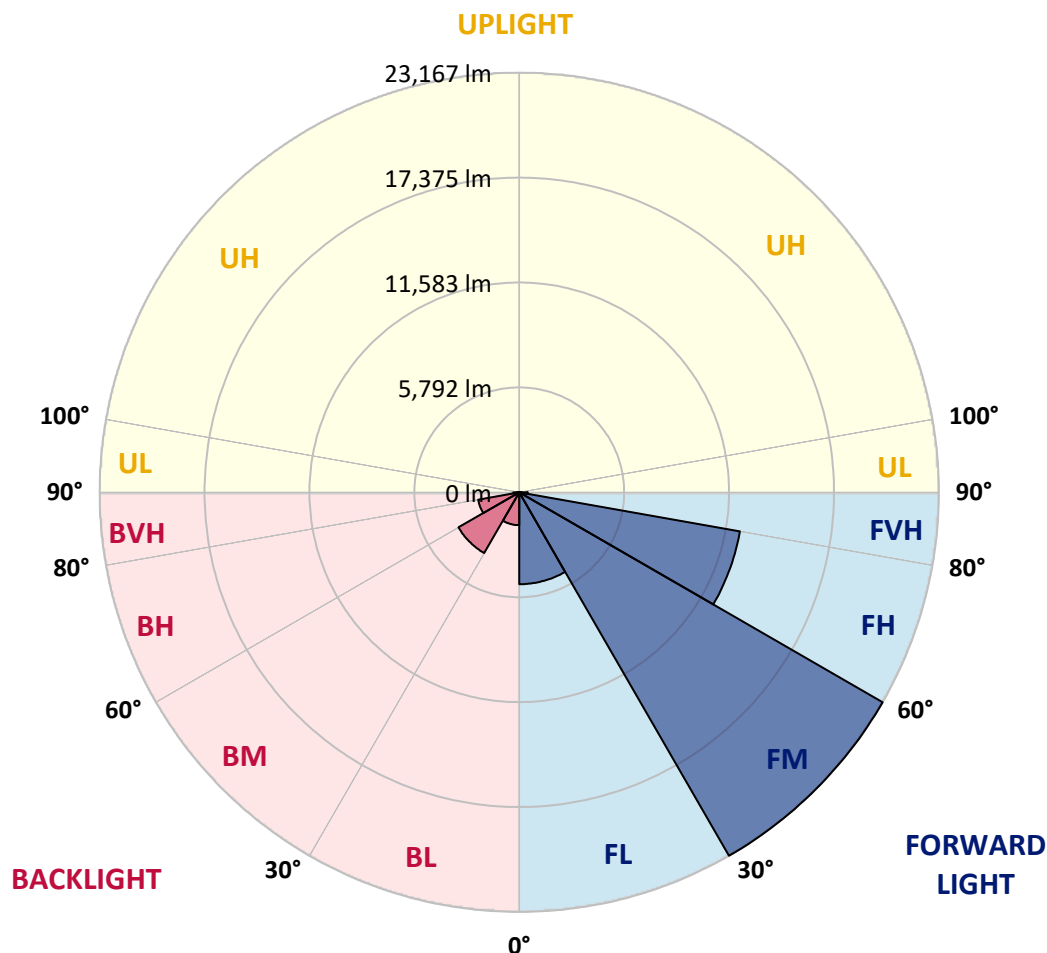
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5072.1	10.3			
FM	(30°-60°)	23166.9	46.9			
FH	(60°-80°)	12369.8	25.0			G5
FVH	(80°-90°)	469.7	1.0			G3/500
BL	(0°-30°)	1812.6	3.7	B3/2500		
BM	(30°-60°)	3869.9	7.8	B3/5000		
BH	(60°-80°)	2302.4	4.7	B3/2500		G3/2500
BVH	(80°-90°)	325.7	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-G5

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3
2.5°	5987.5	5897.0	5888.6	5756.1	5725.9	5472.8	5286.6	5092.1	4870.8	4827.2	4652.8
5°	7691.0	7682.7	7567.0	7350.7	7181.3	6748.7	6321.2	5868.5	5372.2	5291.7	4899.3
7.5°	9223.5	9210.1	9121.3	8888.2	8643.4	8111.9	7501.6	6807.4	6002.6	5883.5	5233.0
10°	10387.2	10382.1	10352.0	10180.9	9973.0	9463.3	8789.3	7841.9	6735.3	6572.7	5650.5
12.5°	11285.9	11295.9	11316.1	11255.7	11156.8	10722.5	10031.7	8938.5	7516.7	7355.7	6114.9
15°	11894.5	11924.7	12028.7	12114.2	12166.2	11899.6	11230.6	10060.2	8391.9	8199.1	6629.7
17.5°	12201.4	12234.9	12414.3	12672.5	12910.6	12883.8	12352.3	11130.0	9231.9	9045.8	7183.0
20°	12466.3	12491.4	12692.6	13002.8	13423.7	13609.8	13311.3	12159.4	10152.4	9931.1	7769.8
22.5°	13234.2	13266.1	13326.4	13502.5	13874.7	14216.8	14072.6	13133.6	10995.8	10789.6	8326.5
25°	14716.4	14755.0	14624.2	14475.0	14545.4	14783.5	14810.3	14022.3	11850.9	11617.9	8925.1
27.5°	16502.1	16557.4	16334.4	15950.5	15615.1	15522.9	15491.1	14750.0	12667.5	12397.5	9517.0
30°	18250.9	18346.5	18056.4	17558.4	16943.1	16510.5	16190.2	15462.6	13472.3	13214.1	10075.3
32.5°	19959.5	19920.9	19500.0	19013.8	18292.8	17751.2	16976.6	16227.1	14377.7	14080.9	10630.3
35°	21129.8	21143.2	20752.5	20175.8	19488.3	19072.5	18029.6	17052.1	15301.6	15028.3	11260.7
37.5°	22125.8	22063.7	21621.1	21082.9	20491.0	20313.3	19262.0	17960.8	16302.6	16004.1	11931.4
40°	22457.8	22385.7	22095.6	21708.3	21233.8	21218.7	20621.8	18990.3	17434.4	17139.3	12687.6
42.5°	22256.5	22164.3	22045.3	21939.7	21793.8	21860.8	21899.4	20197.6	18678.5	18348.2	13562.8
45°	21513.8	21374.6	21458.4	21688.1	22005.0	22384.0	23053.0	21533.9	20071.8	19795.1	14590.7
47.5°	20371.9	20246.2	20507.7	20999.0	21860.8	22819.9	24144.5	23009.4	21735.1	21460.1	16054.4
50°	18765.7	18802.5	19176.4	20070.1	21372.9	23021.1	25489.2	24962.7	24152.9	23896.4	18051.4
52.5°	16129.9	16136.6	17189.6	18656.7	20507.7	22917.2	26235.4	27459.4	27454.3	27144.1	19952.8
55°	13681.9	13831.1	14664.4	16614.4	19106.0	22501.3	26756.8	28673.3	29622.3	29258.5	21725.0
57.5°	11290.9	11378.1	12167.8	14126.2	17105.7	21393.0	27291.7	30130.3	32120.6	31890.9	23928.2
60°	8571.3	8705.4	9522.0	11331.2	14547.1	19426.3	27342.0	31651.1	35106.8	34875.4	26387.9
62.5°	5563.3	5794.7	6559.3	8254.4	11451.9	16597.7	26175.0	32645.4	37937.1	37854.9	28571.0
65°	3197.5	3371.8	3903.4	5211.2	7900.6	13046.4	23400.1	32263.1	39679.2	39632.2	29387.6
66°	2612.3	2721.3	3128.7	4072.7	6519.0	11456.9	21787.1	31456.6	39851.9	39853.5	29293.7
67.5°	2089.2	2137.8	2320.6	2915.8	4810.5	9081.0	18904.8	29677.6	39637.2	39695.9	28688.4
70°	1728.7	1753.8	1810.8	1955.0	2625.7	5476.1	13418.6	25055.0	37482.7	37528.0	26325.9
72.5°	1550.9	1566.0	1587.8	1608.0	1852.8	3060.0	8195.7	20043.3	32863.4	32922.1	22726.0
75°	1405.1	1413.5	1410.1	1411.8	1554.3	1950.0	4235.4	14964.6	26572.4	26455.0	17409.2
77.5°	1234.1	1242.4	1225.7	1229.0	1374.9	1499.0	2107.6	10476.0	17932.3	17104.0	9808.7
80°	1042.9	1049.6	1042.9	1054.6	1197.2	1131.8	1225.7	5893.6	7929.1	7499.9	3487.5
82.5°	788.1	816.6	836.7	883.6	985.9	804.8	819.9	2295.4	2414.5	2298.8	1069.7
85°	345.4	420.9	630.4	675.7	741.1	482.9	538.2	935.6	982.5	952.4	389.0
87.5°	90.5	98.9	311.9	392.3	410.8	218.0	280.0	425.9	449.4	425.9	129.1
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°	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3	4510.3
2.5°	4560.6	4478.5	4330.9	4200.1	4101.2	4034.1	3967.1	3933.5	3913.4	3893.3	3896.7
5°	4706.5	4540.5	4287.3	4107.9	4007.3	3943.6	3910.1	3896.7	3888.3	3868.2	3868.2
7.5°	4926.2	4691.4	4342.7	4158.2	4079.4	4030.8	4010.7	4004.0	3993.9	3970.4	3973.8
10°	5202.8	4874.2	4458.4	4278.9	4206.8	4153.2	4124.7	4114.6	4096.2	4069.4	4072.7
12.5°	5528.1	5100.5	4610.9	4423.1	4336.0	4263.9	4216.9	4188.4	4156.5	4121.3	4123.0
15°	5883.5	5347.0	4775.2	4552.2	4433.2	4332.6	4257.1	4208.5	4158.2	4114.6	4113.0
17.5°	6244.0	5585.1	4901.0	4622.7	4461.7	4329.2	4227.0	4151.5	4089.5	4035.8	4030.8
20°	6633.0	5799.7	4971.4	4616.0	4408.1	4250.4	4114.6	4020.7	3952.0	3898.3	3889.9
22.5°	7028.7	6000.9	4983.2	4547.2	4289.0	4096.2	3953.7	3849.7	3779.3	3724.0	3703.8
25°	7390.9	6156.9	4934.5	4414.8	4123.0	3915.1	3775.9	3670.3	3613.3	3547.9	3527.8
27.5°	7721.2	6265.8	4837.3	4245.4	3936.9	3732.3	3601.6	3511.0	3449.0	3398.7	3381.9
30°	8018.0	6324.5	4678.0	4044.2	3745.8	3559.6	3449.0	3386.9	3333.3	3269.6	3257.8
32.5°	8299.7	6324.5	4473.4	3824.6	3556.3	3407.1	3341.7	3303.1	3242.7	3180.7	3163.9
35°	8581.4	6286.0	4232.0	3594.9	3381.9	3298.1	3294.7	3249.4	3157.2	3073.4	3051.6
37.5°	8878.1	6207.2	3960.4	3380.2	3239.4	3249.4	3278.0	3177.4	3046.6	2927.5	2895.7
40°	9213.5	6098.2	3678.7	3194.1	3120.3	3227.7	3232.7	3073.4	2818.5	2709.6	2681.0
42.5°	9607.5	5989.2	3417.1	3029.8	3026.4	3162.3	3147.2	2848.7	2696.1	2640.8	2625.7
45°	10125.6	5927.1	3169.0	2873.9	2952.7	3056.6	3001.3	2724.6	2660.9	2629.1	2615.7
47.5°	10942.2	5959.0	2940.9	2749.8	2878.9	2951.0	2729.7	2674.3	2629.1	2590.5	2577.1
50°	11964.9	5940.6	2756.5	2664.3	2795.1	2840.3	2607.3	2608.9	2585.5	2541.9	2521.8
52.5°	12734.6	5796.4	2637.5	2615.7	2721.3	2644.2	2530.1	2545.2	2533.5	2469.8	2448.0
55°	13477.3	5672.3	2577.1	2597.2	2667.6	2399.4	2439.6	2476.5	2464.8	2402.7	2392.7
57.5°	14401.2	5648.8	2540.2	2602.2	2622.4	2277.0	2352.4	2401.0	2392.7	2365.8	2360.8
60°	15533.0	5655.5	2506.7	2610.6	2572.1	2186.4	2270.3	2332.3	2337.3	2332.3	2328.9
62.5°	16155.0	5472.8	2422.8	2587.2	2483.2	2107.6	2184.7	2275.3	2277.0	2287.0	2285.3
65°	15626.9	4926.2	2266.9	2505.0	2334.0	2042.2	2111.0	2209.9	2184.7	2230.0	2230.0
66°	15113.8	4610.9	2189.8	2451.3	2270.3	2017.1	2087.5	2176.4	2144.5	2206.5	2206.5
67.5°	14065.9	4079.4	2050.6	2337.3	2179.7	1981.9	2060.7	2121.0	2077.4	2169.7	2162.9
70°	12151.1	3155.6	1770.6	2079.1	2030.5	1929.9	2023.8	2010.4	1946.7	2087.5	2060.7
72.5°	10244.7	2397.7	1421.8	1740.4	1804.1	1864.5	1971.8	1869.5	1789.0	1888.0	1829.3
75°	7949.2	1802.5	1123.4	1353.1	1524.1	1762.2	1909.8	1706.9	1591.2	1581.1	1549.3
77.5°	4297.4	1237.4	890.3	1032.8	1210.6	1634.8	1867.8	1532.5	1358.1	1317.9	1292.7
80°	1701.9	804.8	647.2	783.0	846.7	1450.3	1767.2	1329.6	1120.0	1079.8	1041.2
82.5°	702.5	476.2	417.5	524.8	551.6	1240.8	1586.2	1089.9	865.2	1197.2	1270.9
85°	301.8	261.6	248.2	271.6	311.9	870.2	1262.6	831.6	933.9	833.3	662.3
87.5°	90.5	110.7	105.6	104.0	114.0	207.9	672.4	462.8	685.8	259.9	194.5
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)