

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: P318220

Luminaire Tested: **GAN-SA6D-827-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318220
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-SA6D-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33478 lumens
Efficiency: N/A
Efficacy: 87.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

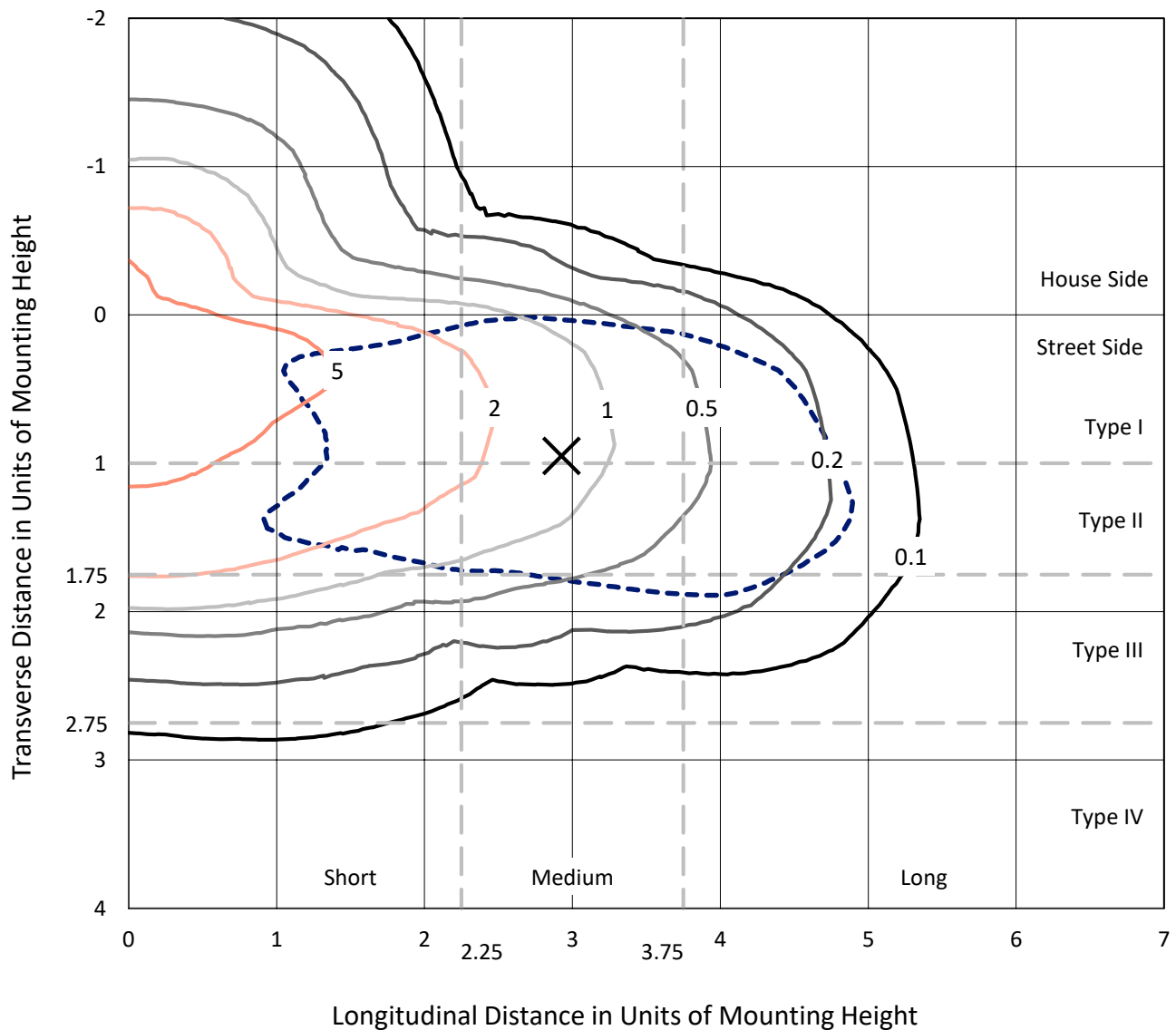
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

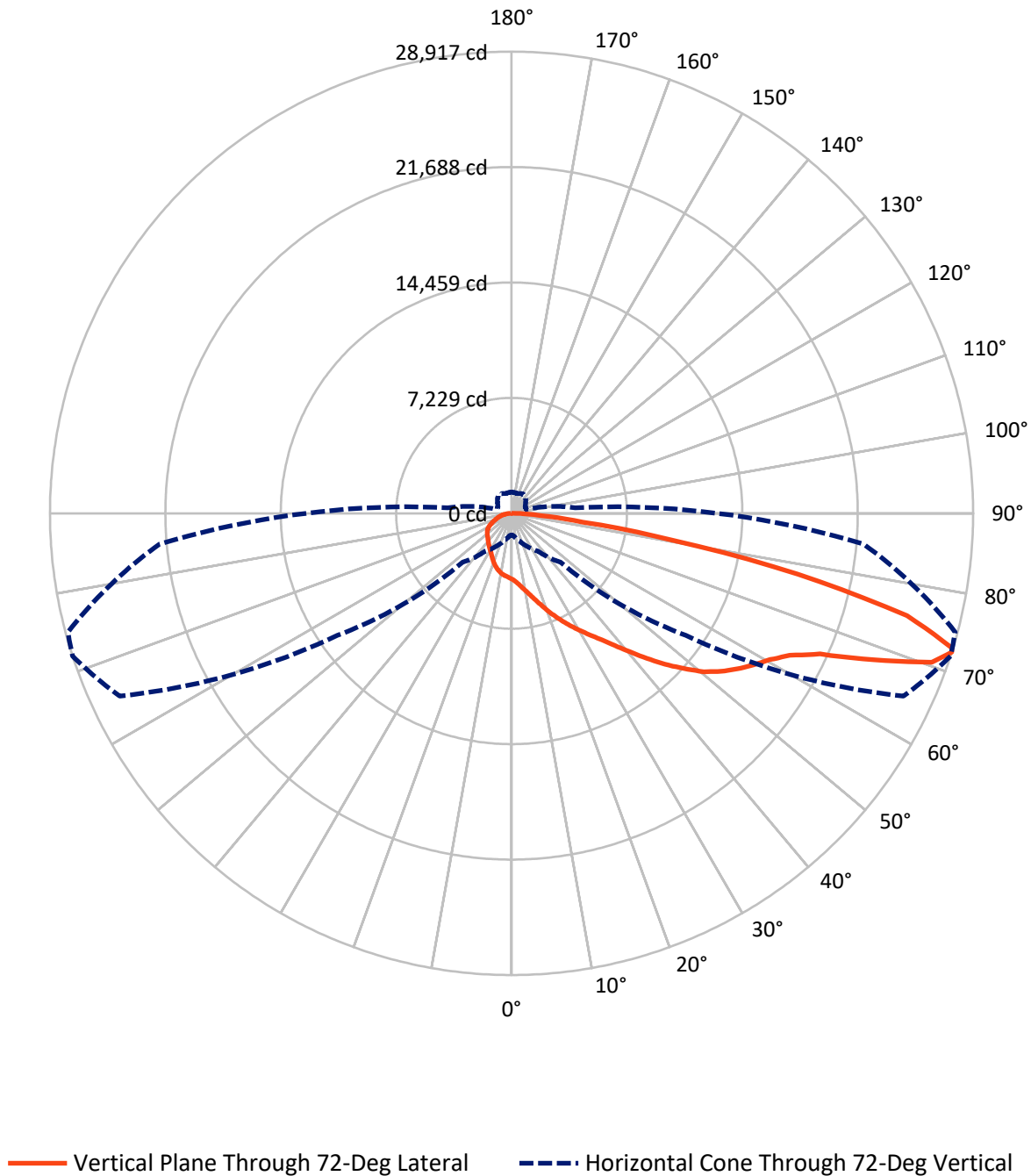
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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	6210.4	0.0	6210.4
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	27267.6	0.0	27267.6
	% Fixture	81.4	0.0	81.4
Total	Lumens	33478.0	0.0	33478.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	412.7	1.2
10°-20°	1333.7	4.0
20°-30°	2337.0	7.0
30°-40°	3465.0	10.4
40°-50°	5067.9	15.1
50°-60°	6973.3	20.8
60°-70°	7763.4	23.2
70°-80°	5260.5	15.7
80°-90°	864.6	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°	33478.0	100.0
0°-180°	33478.0	100.0

Coefficient of Utilization



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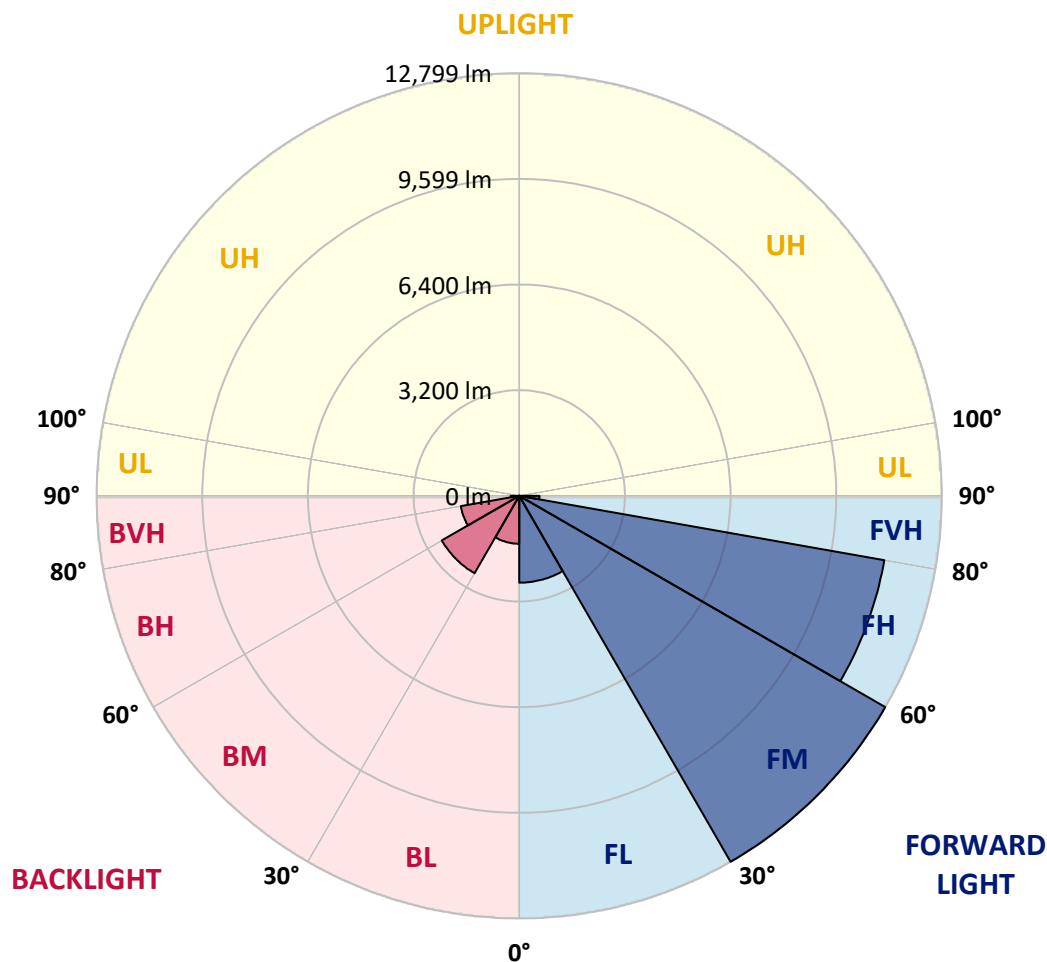
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2631.6	7.9			
FM	(30°-60°)	12799.1	38.2			
FH	(60°-80°)	11227.1	33.5			G4/12000
FVH	(80°-90°)	609.9	1.8			G4/750
BL	(0°-30°)	1451.8	4.3	B3/2500		
BM	(30°-60°)	2707.2	8.1	B3/5000		
BH	(60°-80°)	1796.7	5.4	B3/2500		G3/2500
BVH	(80°-90°)	254.7	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-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7
2.5°	4549.8	4542.9	4518.7	4518.7	4472.6	4433.4	4359.6	4310.0	4251.2	4230.5	4161.3
5°	4990.1	4992.4	4962.5	4941.7	4873.7	4790.7	4665.1	4550.9	4436.8	4390.7	4248.9
7.5°	5360.1	5355.5	5347.5	5330.2	5266.8	5181.5	5012.0	4842.6	4674.3	4605.1	4360.7
10°	5597.6	5608.0	5614.9	5623.0	5596.5	5535.4	5375.1	5168.8	4948.6	4854.1	4494.5
12.5°	5717.5	5735.9	5768.2	5823.5	5867.3	5860.4	5744.0	5525.0	5263.3	5144.6	4661.6
15°	5787.8	5812.0	5862.7	5961.9	6085.2	6155.5	6124.4	5926.1	5634.5	5488.1	4865.6
17.5°	5831.6	5851.2	5929.6	6062.2	6245.4	6432.2	6514.0	6348.0	6054.1	5886.9	5099.6
20°	5861.6	5876.6	5974.5	6130.2	6367.6	6665.0	6893.3	6851.8	6516.3	6299.6	5344.0
22.5°	5928.4	5941.1	6034.5	6191.3	6454.1	6837.9	7258.7	7320.9	7003.9	6758.4	5605.7
25°	6115.2	6115.2	6193.6	6303.1	6549.8	6987.8	7567.6	7843.1	7501.9	7216.0	5847.7
27.5°	6471.4	6467.9	6496.7	6534.8	6721.5	7139.9	7843.1	8304.2	8018.3	7705.9	6082.9
30°	6893.3	6916.3	6919.8	6901.3	6988.9	7330.1	8097.9	8790.6	8538.2	8201.6	6323.8
32.5°	7436.2	7451.2	7433.9	7372.8	7360.1	7599.9	8348.0	9300.1	9100.7	8719.2	6544.0
35°	8125.5	8096.7	8042.5	7918.0	7799.3	7960.7	8633.9	9809.6	9732.4	9345.1	6847.2
37.5°	8864.4	8865.6	8798.7	8516.3	8352.6	8421.8	9028.1	10387.2	10496.7	10089.8	7235.6
40°	9456.9	9488.0	9529.5	9158.4	8946.3	9041.9	9529.5	11056.9	11400.4	10972.7	7741.7
42.5°	9870.7	9906.5	10024.1	9791.2	9571.0	9748.6	10119.7	11771.6	12414.8	11991.7	8334.2
45°	10308.8	10328.4	10411.4	10311.1	10170.4	10570.4	10784.8	12511.6	13488.0	13077.6	8997.0
47.5°	10769.9	10790.6	10875.9	10809.1	10735.3	11338.2	11478.8	13209.0	14516.2	14270.7	9704.7
50°	11339.3	11353.1	11433.8	11312.8	11335.8	11916.8	12098.9	13848.8	15594.0	15342.7	10414.8
52.5°	12116.2	12119.7	12231.5	12122.0	12013.6	12341.0	12632.7	14451.6	16438.9	16320.2	11124.9
55°	12724.9	12761.8	13128.3	13105.3	13043.0	12726.0	13078.8	15025.7	17192.8	17249.3	11878.8
57.5°	12336.4	12480.5	13222.8	13746.2	14255.7	13683.9	13681.6	15672.4	17893.7	18161.1	12707.6
60°	10804.4	11000.4	12094.3	13255.1	14849.3	15350.8	14933.5	16462.0	18601.4	19064.8	13746.2
62.5°	7716.3	8039.1	9521.5	11375.0	14035.5	16455.1	17481.0	17715.0	19564.0	20111.5	15096.0
65°	3900.8	4145.2	5387.8	7620.6	11213.7	15733.5	20249.8	20458.5	21236.6	21723.0	17174.4
67.5°	2370.0	2462.2	3068.5	4238.6	6874.8	12255.7	21153.6	25031.3	24473.4	24731.6	20138.0
70°	1746.4	1814.4	2192.5	2814.9	3953.8	7191.8	18380.1	28294.7	27928.1	27899.3	22328.2
72°	1360.2	1409.8	1744.1	2274.3	2891.0	4314.6	13322.0	27090.1	28917.1	28771.9	22127.6
72.5°	1289.9	1333.7	1638.0	2140.6	2731.9	3911.2	11977.9	26277.4	28845.7	28780.0	21868.2
75°	1015.5	1046.7	1212.7	1655.3	2138.3	2219.0	6563.6	20363.9	25589.2	26653.2	19668.9
77.5°	840.3	844.9	932.6	1204.6	1666.8	1568.9	3224.2	14128.9	18323.6	19493.6	13932.9
80°	684.7	690.5	732.0	844.9	1261.1	1160.8	1530.8	8124.4	10259.2	10271.9	6625.8
82.5°	545.2	546.4	592.5	617.9	906.0	830.0	877.2	3814.3	4482.9	4312.3	2381.5
85°	383.9	375.8	578.7	507.2	592.5	532.6	484.1	1510.1	1853.6	1772.9	745.8
87.5°	128.0	132.6	257.1	328.5	345.8	302.0	215.6	578.7	699.7	693.9	236.3
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°	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7	4118.7
2.5°	4139.4	4102.5	4048.4	3988.4	3941.1	3892.7	3857.0	3838.6	3817.8	3800.5	3821.3
5°	4183.2	4114.1	3998.8	3885.8	3802.8	3729.0	3676.0	3648.4	3623.0	3605.7	3608.0
7.5°	4254.7	4142.9	3949.2	3784.4	3669.1	3589.6	3535.4	3516.9	3500.8	3496.2	3502.0
10°	4330.8	4165.9	3883.5	3664.5	3533.1	3467.4	3443.2	3455.9	3467.4	3477.8	3489.3
12.5°	4417.2	4186.7	3787.8	3523.9	3412.1	3386.7	3410.9	3466.2	3506.6	3530.8	3545.8
15°	4530.2	4205.1	3677.2	3383.2	3308.3	3337.1	3419.0	3514.6	3585.0	3629.9	3636.8
17.5°	4633.9	4204.0	3535.4	3241.4	3224.2	3308.3	3431.6	3566.5	3661.0	3724.4	3737.1
20°	4741.1	4172.8	3370.6	3103.1	3138.9	3277.2	3437.4	3599.9	3714.1	3787.8	3805.1
22.5°	4841.4	4118.7	3189.6	2977.5	3067.4	3235.7	3415.5	3580.3	3694.5	3754.4	3772.9
25°	4909.4	4024.1	3006.3	2871.4	3004.0	3185.0	3344.0	3476.6	3561.9	3591.9	3596.5
27.5°	4944.0	3900.8	2833.4	2779.2	2938.3	3102.0	3211.5	3277.2	3301.4	3299.1	3294.5
30°	4948.6	3738.3	2684.7	2704.3	2862.2	2979.8	3031.7	3019.0	2987.8	2934.8	2939.4
32.5°	4933.6	3555.0	2560.2	2632.8	2765.4	2831.1	2833.4	2772.3	2689.3	2605.1	2582.1
35°	4938.3	3375.2	2450.7	2552.1	2647.8	2676.6	2650.1	2560.2	2447.2	2338.9	2315.8
37.5°	4989.0	3218.4	2356.2	2458.8	2517.5	2524.5	2486.4	2391.9	2308.9	2202.8	2193.6
40°	5110.0	3106.6	2266.2	2353.9	2387.3	2390.7	2336.6	2269.7	2276.6	2220.1	2219.0
42.5°	5327.9	3058.2	2186.7	2244.3	2265.1	2272.0	2230.5	2187.9	2247.8	2210.9	2198.2
45°	5609.1	3069.7	2119.9	2137.1	2175.2	2207.5	2182.1	2130.2	2153.3	1993.1	1940.0
47.5°	5934.2	3143.5	2066.8	2044.9	2110.6	2171.7	2132.5	2054.1	1972.3	1813.2	1783.3
50°	6314.6	3257.6	2018.4	1953.9	2040.3	2123.3	2084.1	1972.3	1849.0	1771.7	1761.4
52.5°	6711.1	3397.1	1970.0	1853.6	1951.6	2086.4	2066.8	1953.9	1801.7	1725.6	1711.8
55°	7160.7	3537.7	1908.9	1737.1	1855.9	2069.1	2058.8	1887.0	1766.0	1723.3	1712.9
57.5°	7719.8	3697.9	1828.2	1616.1	1766.0	2006.9	1974.6	1846.7	1729.1	1696.8	1693.3
60°	8448.3	3934.2	1711.8	1487.0	1656.5	1911.2	1904.3	1787.9	1670.3	1647.2	1642.6
62.5°	9541.1	4325.0	1551.6	1357.9	1534.3	1748.7	1812.1	1708.3	1608.0	1606.9	1609.2
65°	11235.6	4912.9	1377.5	1244.9	1410.9	1611.5	1704.9	1626.5	1544.6	1567.7	1571.2
67.5°	13199.8	5400.5	1206.9	1134.3	1285.3	1481.2	1608.0	1544.6	1460.5	1520.4	1521.6
70°	13853.4	4964.8	1057.0	1024.8	1155.0	1355.6	1503.1	1454.7	1369.4	1429.4	1423.6
72°	12892.0	4008.0	960.2	941.8	1057.0	1251.9	1409.8	1370.6	1286.4	1326.8	1311.8
72.5°	12588.9	3821.3	936.0	921.0	1030.5	1225.3	1385.6	1349.8	1265.7	1300.3	1286.4
75°	11229.8	3318.7	804.6	808.1	899.1	1096.2	1249.5	1238.0	1151.6	1155.0	1150.4
77.5°	8145.1	2433.4	677.8	700.9	765.4	963.7	1112.4	1105.5	1010.9	993.6	990.2
80°	3779.8	1241.5	552.2	562.5	629.4	805.8	948.7	939.5	863.4	841.5	828.8
82.5°	1294.5	590.2	415.0	421.9	487.6	649.0	823.0	817.3	753.9	711.2	684.7
85°	462.2	293.9	290.5	283.6	348.1	510.7	717.0	685.9	592.5	504.9	502.6
87.5°	149.9	125.6	149.9	148.7	202.9	345.8	521.0	443.8	430.0	357.3	350.4
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)