

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: P317802

Luminaire Tested: **GAN-SA8B-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317802
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46827 lumens
Efficiency: N/A
Efficacy: 140.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

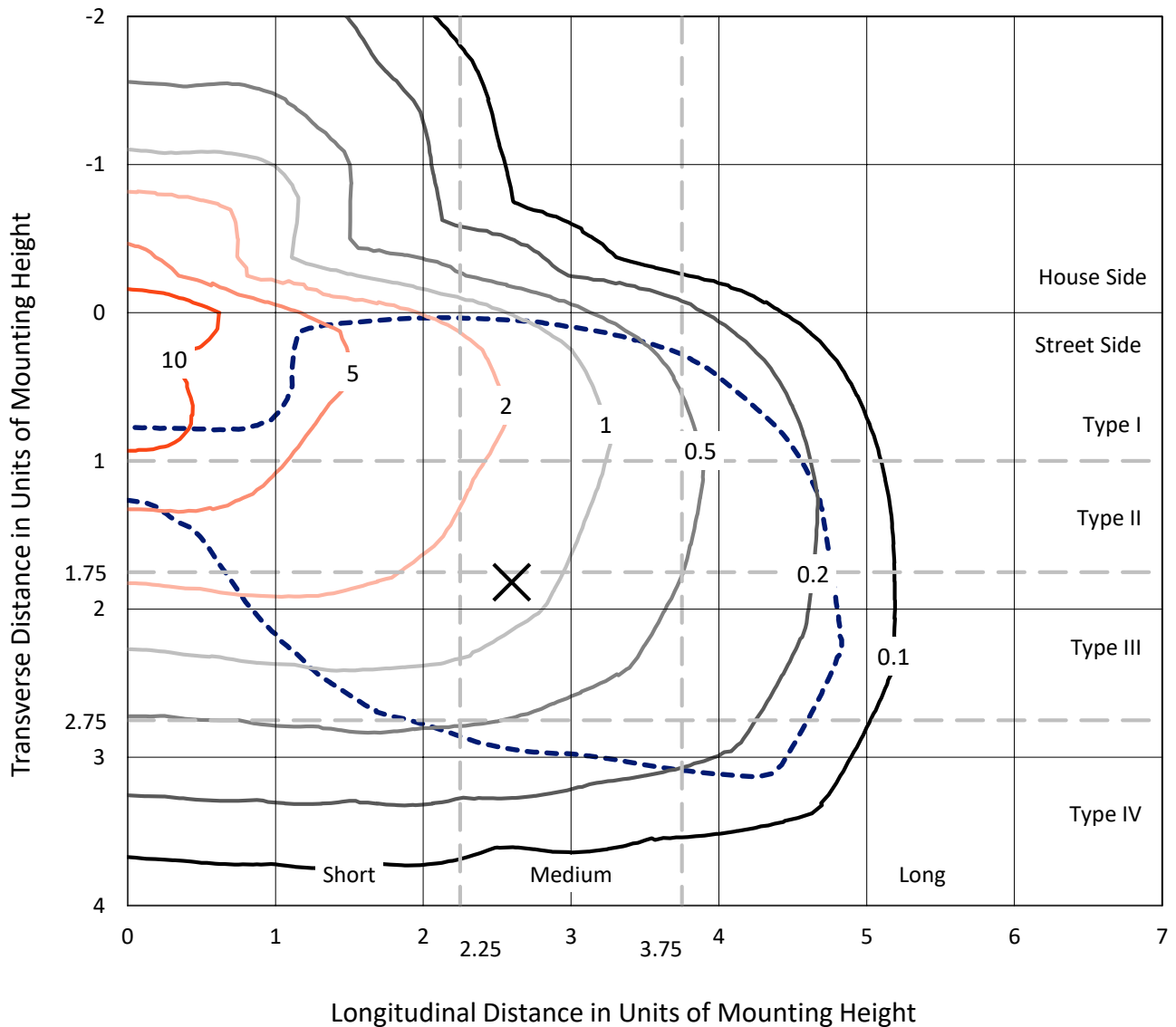
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

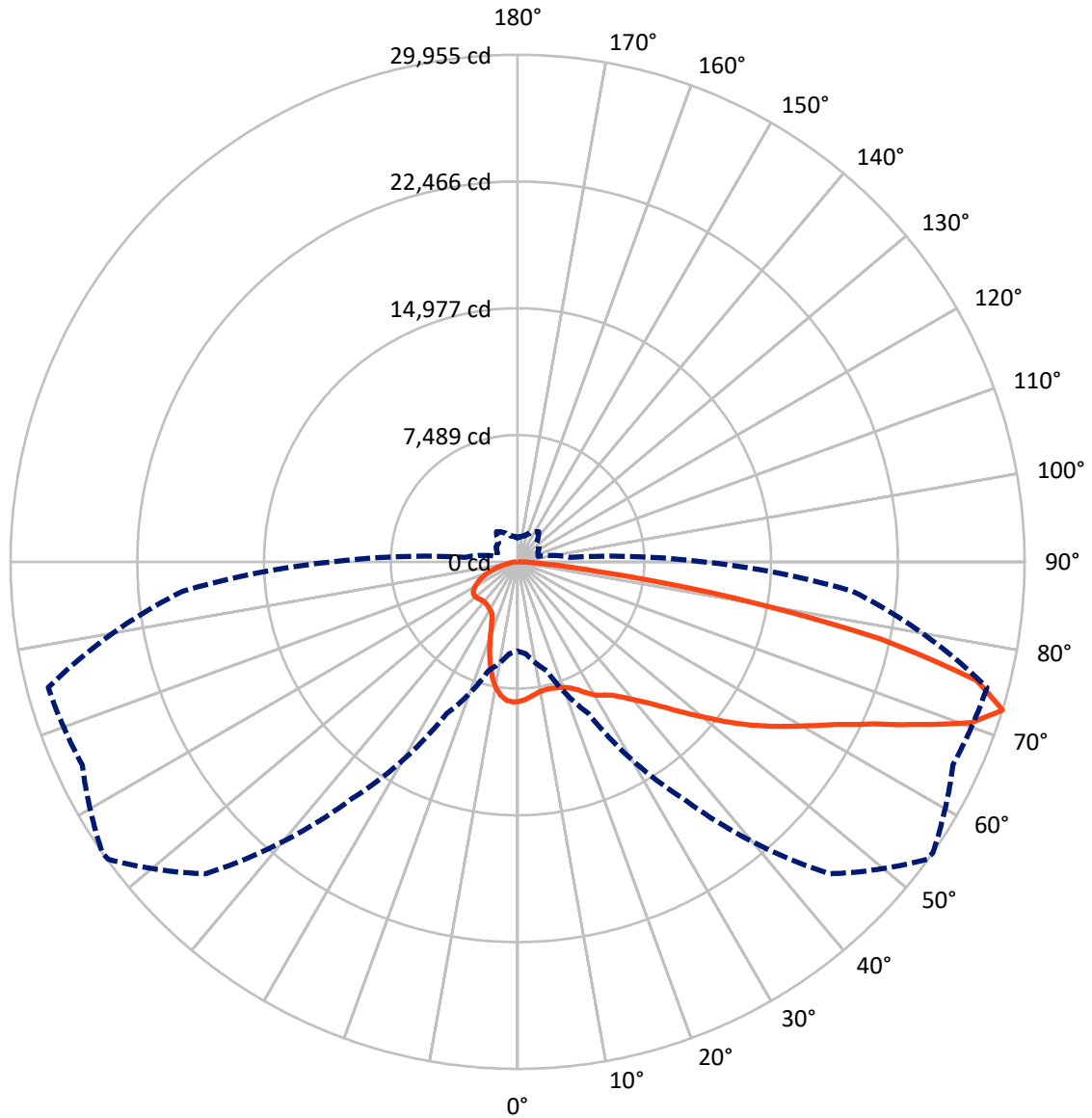
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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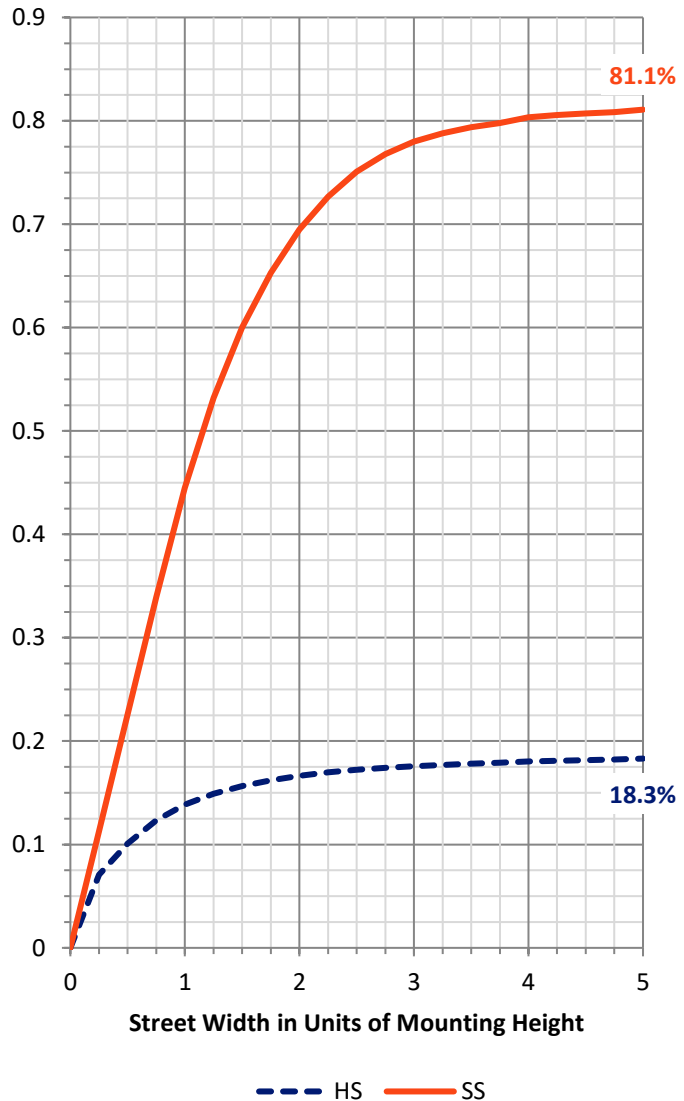
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8703.6	0.0	8703.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	38123.4	0.0	38123.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	46827.0	0.0	46827.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	747.4	1.6
10°-20°	1989.8	4.2
20°-30°	3280.6	7.0
30°-40°	4852.9	10.4
40°-50°	6773.6	14.5
50°-60°	8819.4	18.8
60°-70°	10838.8	23.1
70°-80°	8496.3	18.1
80°-90°	1028.2	2.2
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°	46827.0	100.0
0°-180°	46827.0	100.0

Coefficient of Utilization

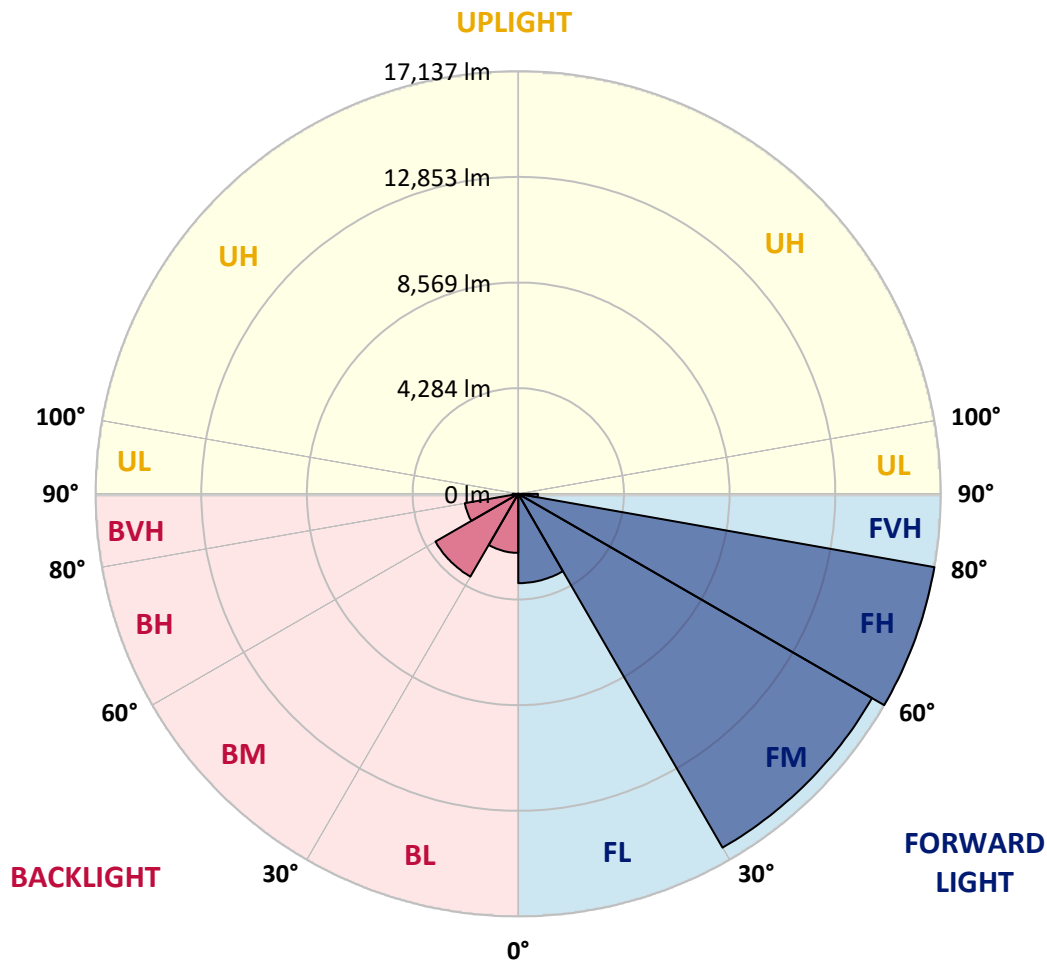


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3623.0	7.7			
FM (30°-60°)	16568.3	35.4			
FH (60°-80°)	17137.1	36.6			G5
FVH (80°-90°)	794.9	1.7			G5
BL (0°-30°)	2394.7	5.1	B3/2500		
BM (30°-60°)	3877.6	8.3	B3/5000		
BH (60°-80°)	2198.1	4.7	B3/2500		G3/2500
BVH (80°-90°)	233.2	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8259.3	8259.3	8259.3	8259.3	8259.3	8259.3	8259.3	8259.3	8259.3	8259.3	8259.3
2.5°	7990.4	7971.4	7995.1	8028.4	8064.7	8113.8	8142.2	8154.9	8203.9	8222.9	8264.0
5°	7620.3	7610.8	7650.3	7707.3	7787.9	7901.8	7993.6	8011.0	8140.7	8232.4	8316.2
7.5°	7351.4	7351.4	7397.3	7465.3	7555.4	7708.9	7838.6	7862.3	8082.1	8279.8	8434.8
10°	7137.9	7145.8	7199.6	7280.2	7386.2	7549.1	7721.5	7748.4	8066.3	8390.6	8637.3
12.5°	6995.6	7014.5	7063.6	7136.3	7267.6	7465.3	7683.6	7719.9	8099.5	8548.7	8880.9
15°	7085.7	7117.3	7122.1	7152.1	7224.9	7440.0	7705.7	7743.7	8170.7	8710.0	9157.6
17.5°	7481.1	7492.2	7443.2	7379.9	7345.1	7482.7	7772.1	7811.7	8256.1	8869.8	9423.4
20°	8082.1	8075.8	7969.8	7799.0	7621.9	7644.0	7881.3	7922.4	8371.6	9010.5	9689.1
22.5°	8841.3	8819.2	8656.3	8341.5	8039.4	7912.9	8072.6	8107.4	8545.6	9211.4	9973.8
25°	9761.8	9712.8	9497.7	9075.4	8631.0	8305.1	8360.5	8393.7	8798.6	9436.0	10234.7
27.5°	10732.9	10683.9	10410.3	9899.4	9307.9	8800.2	8757.5	8786.0	9086.5	9602.1	10427.7
30°	11748.4	11696.2	11446.3	10873.7	10026.0	9312.6	9127.6	9138.7	9288.9	9692.2	10585.9
32.5°	12768.5	12719.5	12439.5	11775.2	10805.7	9863.0	9394.9	9380.7	9410.7	9785.5	10764.6
35°	13802.9	13821.9	13494.5	12759.0	11669.3	10475.1	9711.2	9681.2	9614.7	9976.9	11017.6
37.5°	14910.0	14897.4	14473.5	13704.8	12572.4	11139.4	10165.1	10160.4	9931.1	10339.1	11414.6
40°	15650.2	15658.1	15400.3	14672.8	13485.0	11874.9	10747.2	10736.1	10435.6	10881.6	11935.0
42.5°	15939.7	15991.9	16058.3	15596.5	14440.3	12727.4	11441.5	11425.7	11139.4	11659.8	12547.1
45°	15960.2	16064.6	16475.8	16417.3	15408.2	13703.2	12328.8	12284.5	12078.9	12694.2	13277.8
47.5°	15783.1	15890.6	16573.9	16906.1	16273.4	14732.9	13366.4	13331.6	13154.4	13987.9	14068.6
50°	15395.6	15498.4	16371.5	17144.9	16985.1	15723.0	14562.1	14470.3	14375.4	15482.6	14973.3
52.5°	14669.6	14867.3	16101.0	17201.8	17410.6	16602.4	15819.5	15759.4	15811.6	17059.5	15879.6
55°	12950.4	13171.8	15403.5	17154.4	17725.3	17341.0	17076.9	17073.7	17344.2	18713.9	16852.3
57.5°	11987.2	12143.8	13983.2	17073.7	18098.6	18074.9	18321.6	18351.7	18878.3	20515.3	17870.8
60°	11443.1	11607.6	13263.6	16774.8	18677.5	19023.9	19591.7	19651.8	20437.8	22509.8	19096.6
62.5°	10948.0	11128.4	12817.5	16165.8	19359.2	20380.9	21113.2	21167.0	22089.1	24559.6	20281.2
65°	10101.9	10305.9	12164.3	15765.7	19979.2	22150.7	23047.5	23083.9	23985.4	26707.4	21187.5
67.5°	8906.2	9092.8	10932.2	14881.6	20437.8	24300.2	25619.3	25639.8	25866.0	28224.2	21650.9
70°	7509.6	7580.8	9176.6	13056.4	19895.3	26310.4	28437.7	28442.5	27580.5	29195.3	21575.0
72.5°	5276.3	5444.0	6661.8	9883.6	17097.4	26065.3	29900.7	29954.5	28377.6	28705.0	19851.0
75°	3236.0	3413.2	4178.7	5989.6	10846.8	20499.5	27626.3	27999.6	26883.0	25593.9	16216.5
77.5°	2163.7	2230.1	2726.7	3492.2	4914.1	11794.2	21239.7	21942.0	22332.6	18664.8	10370.8
80°	1206.8	1333.3	1807.8	2170.0	2185.8	4686.4	12735.3	12899.8	12425.3	7432.1	3199.6
82.5°	639.0	708.6	1206.8	1274.8	1192.5	1569.0	4746.5	4751.2	3969.9	1992.9	950.6
85°	495.1	553.6	827.2	778.2	608.9	695.9	1565.8	1651.2	1350.7	816.1	310.0
87.5°	246.7	306.8	561.5	493.5	238.8	199.3	559.9	597.9	533.0	319.5	112.3
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°	8259.3	8259.3	8259.3	8259.3	8259.3	8259.3	8259.3	8259.3	8259.3	8259.3	8259.3
2.5°	8279.8	8294.1	8311.5	8292.5	8286.2	8260.9	8218.2	8208.7	8186.5	8188.1	8200.8
5°	8352.6	8376.3	8366.8	8294.1	8207.1	8085.3	7958.8	7851.2	7780.0	7775.3	7770.6
7.5°	8491.8	8507.6	8433.3	8226.1	7982.5	7701.0	7435.2	7202.7	7062.0	7027.2	7019.3
10°	8710.0	8706.9	8502.8	8085.3	7599.7	7096.8	6669.7	6347.1	6158.9	6103.5	6089.3
12.5°	8953.6	8917.2	8526.6	7829.1	7058.8	6361.3	5820.4	5461.4	5265.2	5202.0	5186.2
15°	9205.1	9114.9	8468.1	7446.3	6394.5	5568.9	5001.1	4669.0	4563.0	4528.2	4521.9
17.5°	9439.2	9265.2	8300.4	6927.5	5636.9	4779.7	4336.8	4204.0	4229.3	4275.1	4276.7
20°	9668.5	9366.4	8031.5	6272.7	4838.2	4129.6	3979.4	4077.4	4197.6	4291.0	4303.6
22.5°	9894.7	9437.6	7685.1	5516.7	4123.3	3764.3	3870.3	4049.0	4186.6	4287.8	4305.2
25°	10084.5	9455.0	7207.5	4710.1	3626.7	3626.7	3818.1	3987.3	4123.3	4223.0	4240.4
27.5°	10154.1	9337.9	6533.7	3963.6	3376.8	3563.4	3745.3	3886.1	4001.5	4107.5	4126.5
30°	10181.0	9121.3	5755.6	3364.1	3274.0	3495.4	3647.2	3767.4	3876.6	3976.2	3993.6
32.5°	10185.7	8860.3	4929.9	3024.1	3202.8	3424.2	3525.5	3631.4	3748.5	3788.0	3794.3
35°	10215.8	8551.9	4060.0	2850.1	3136.4	3357.8	3438.5	3514.4	3324.6	3338.8	3351.5
37.5°	10302.7	8246.6	3332.5	2752.0	3093.7	3323.0	3419.5	3144.3	2995.6	2960.8	2956.1
40°	10465.7	7920.8	2793.2	2673.0	3077.9	3340.4	3297.7	2935.5	2679.3	2487.9	2459.4
42.5°	10691.8	7569.7	2448.4	2620.8	3088.9	3424.2	3128.5	2734.6	2309.2	2185.8	2170.0
45°	10946.5	7201.2	2261.7	2584.4	3126.9	3489.1	3093.7	2467.3	2136.8	2043.5	2035.6
47.5°	11193.2	6750.4	2165.3	2568.6	3179.1	3436.9	2946.6	2385.1	2054.5	2005.5	2010.3
50°	11476.3	6343.9	2106.7	2551.2	3224.9	3403.7	2780.5	2342.4	2022.9	2083.0	2146.3
52.5°	11715.1	5923.2	2054.5	2516.4	3242.3	3345.1	2737.8	2350.3	2022.9	2138.4	2198.5
55°	11998.3	5605.3	1994.4	2443.6	3209.1	3179.1	2707.8	2397.8	2046.6	1973.9	1980.2
57.5°	12363.6	5500.9	1928.0	2329.7	3098.4	2937.1	2693.5	2443.6	2032.4	1986.5	2002.3
60°	12869.7	5611.6	1901.1	2181.1	2926.0	2747.3	2695.1	2419.9	1932.8	1853.7	1855.3
62.5°	13352.1	5735.0	1899.5	2087.8	2714.1	2578.1	2658.7	2342.4	1882.1	1836.3	1853.7
65°	13510.3	5610.0	1823.6	1983.4	2475.3	2375.6	2592.3	2260.2	1844.2	1774.6	1771.4
67.5°	13298.4	5222.5	1670.2	1814.1	2201.6	2139.9	2505.3	2162.1	1784.1	1727.1	1717.7
70°	12668.9	4357.4	1480.4	1591.1	1890.0	1874.2	2367.7	2048.2	1703.4	1654.4	1613.3
72.5°	10974.9	3104.7	1247.9	1323.8	1538.9	1589.5	2177.9	1899.5	1589.5	1483.6	1420.3
75°	9013.7	2298.1	1024.9	1040.7	1168.8	1306.4	1916.9	1725.6	1455.1	1274.8	1225.8
77.5°	5519.9	1406.1	816.1	822.4	838.3	1042.3	1578.5	1531.0	1284.3	1062.9	1028.1
80°	1787.2	767.1	589.9	620.0	572.6	763.9	1221.0	1303.3	1102.4	888.9	850.9
82.5°	680.1	447.6	398.6	419.1	397.0	512.4	890.5	1043.9	903.1	730.7	594.7
85°	329.0	253.1	235.7	264.1	245.2	262.6	569.4	768.7	684.8	476.1	442.9
87.5°	117.0	112.3	90.2	121.8	104.4	93.3	174.0	387.5	452.3	327.4	292.6
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)