

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: P321002

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321002
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8B-750-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46986 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

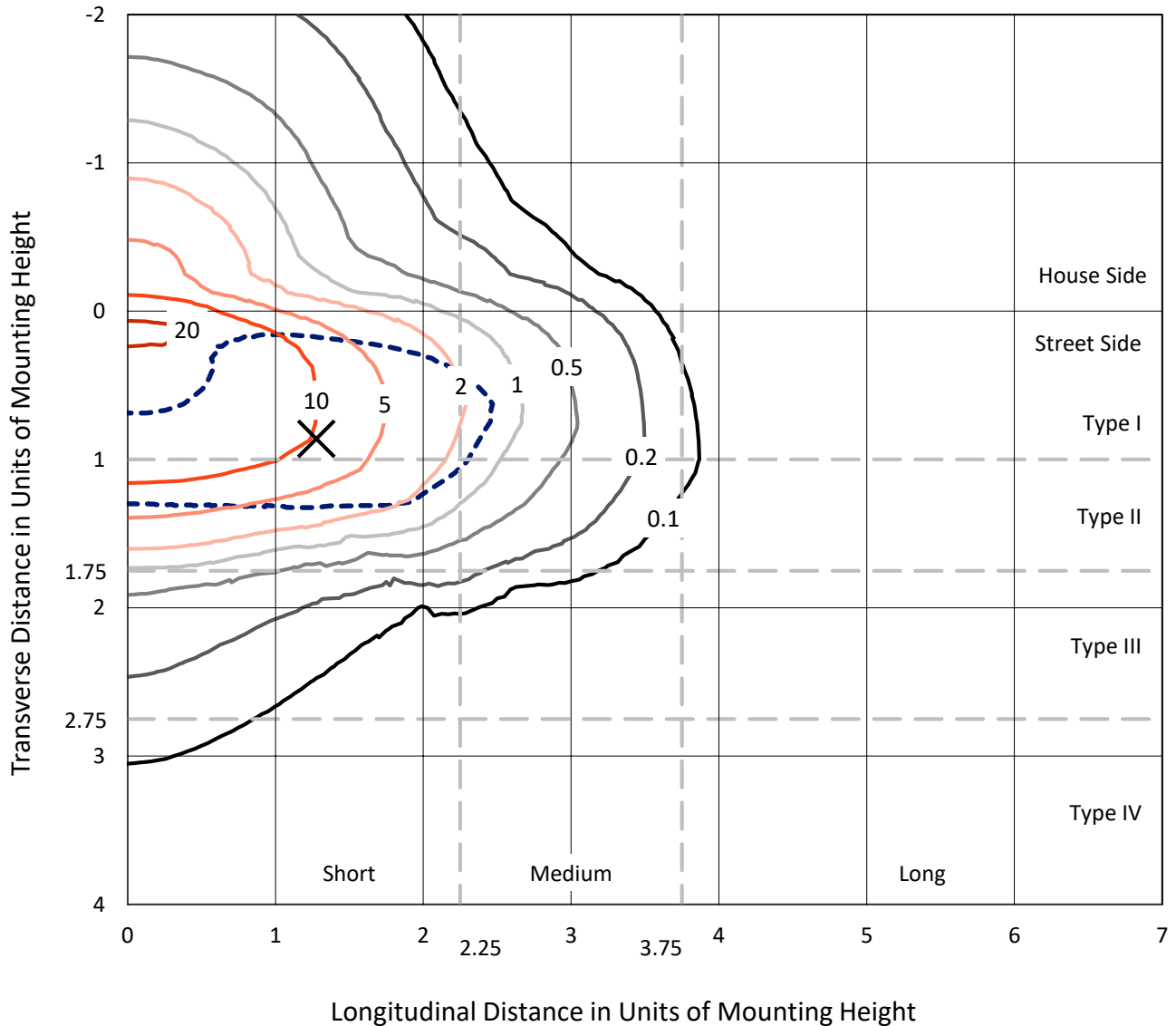
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

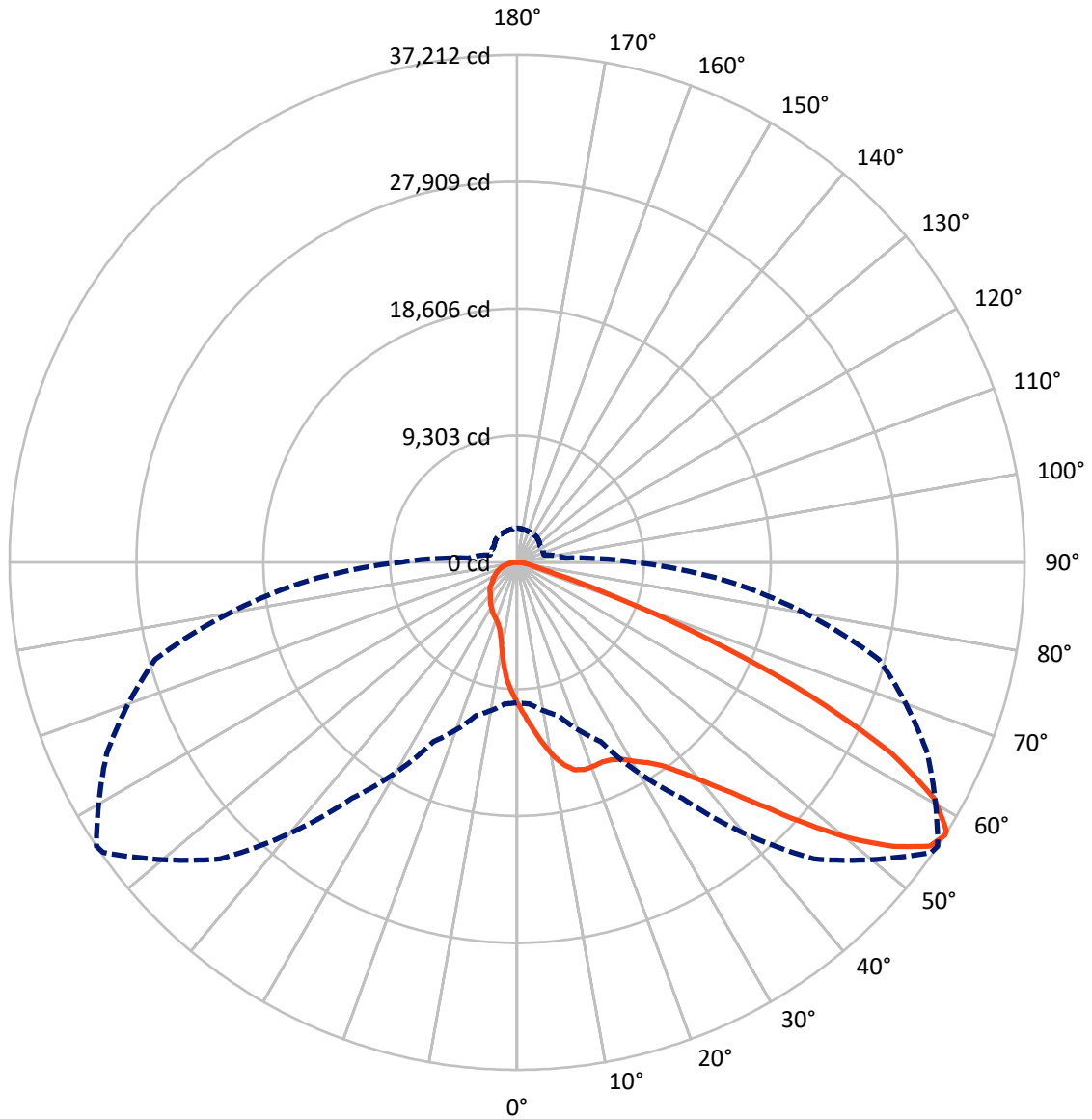
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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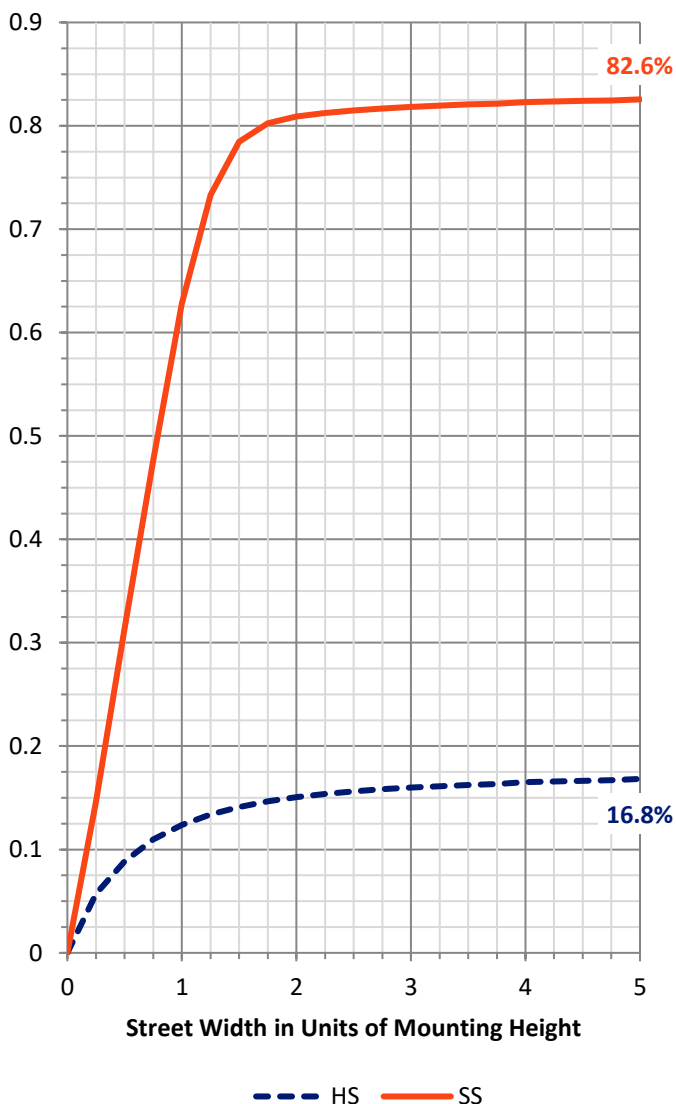
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8099.4	0.0	8099.4
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	38886.6	0.0	38886.6
	% Fixture	82.8	0.0	82.8
Total	Lumens	46986.0	0.0	46986.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	995.5	2.1
10°-20°	2814.6	6.0
20°-30°	4584.4	9.8
30°-40°	6853.1	14.6
40°-50°	10394.8	22.1
50°-60°	11650.7	24.8
60°-70°	6881.3	14.6
70°-80°	2254.6	4.8
80°-90°	557.0	1.2
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°	46986.0	100.0
0°-180°	46986.0	100.0

Coefficient of Utilization

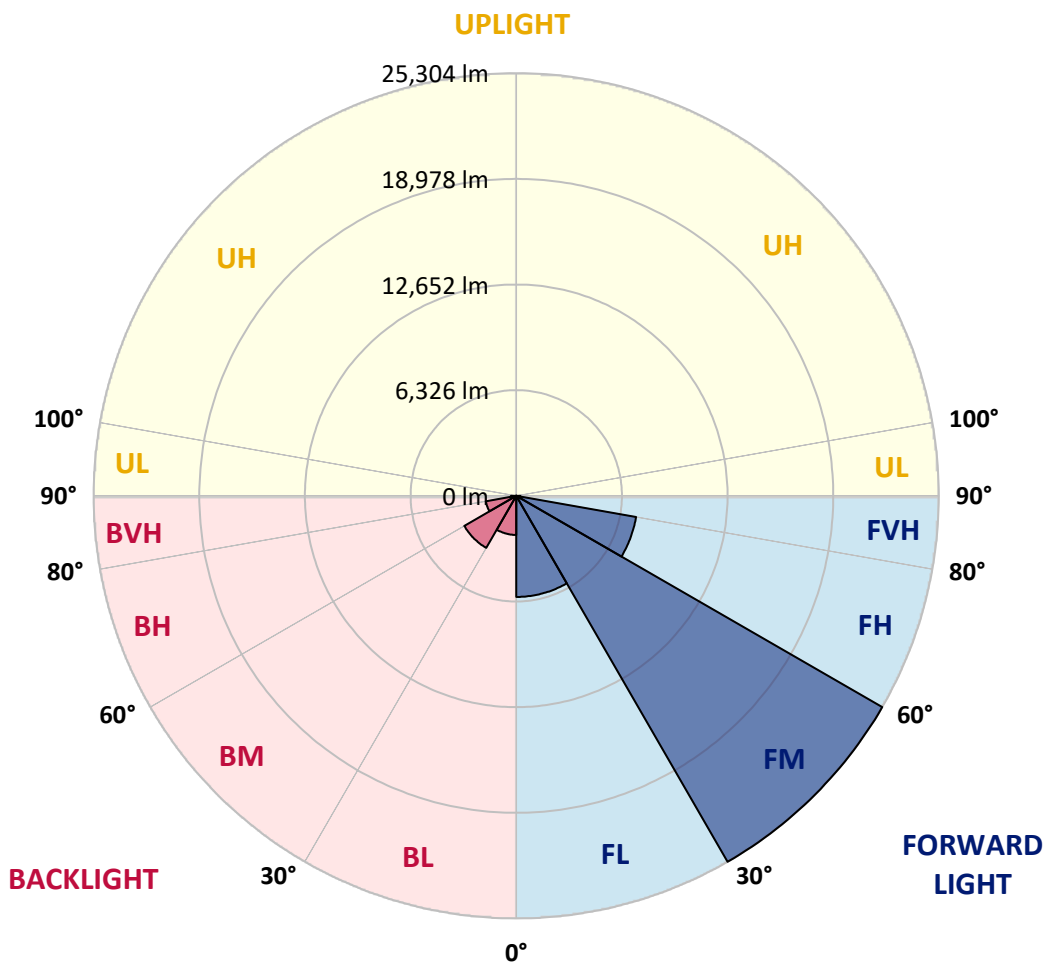


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6052.5	12.9			
FM (30°-60°)	25303.5	53.9			
FH (60°-80°)	7285.3	15.5			G3/7500
FVH (80°-90°)	245.3	0.5			G3/500
BL (0°-30°)	2342.0	5.0	B3/2500		
BM (30°-60°)	3595.1	7.7	B3/5000		
BH (60°-80°)	1850.6	3.9	B3/2500		G3/2500
BVH (80°-90°)	311.8	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-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10421.5	10421.5	10421.5	10421.5	10421.5	10421.5	10421.5	10421.5	10421.5	10421.5	10421.5
2.5°	11966.8	12076.6	12028.2	11860.3	11731.1	11548.6	11345.2	11283.8	11069.0	10828.5	10539.4
5°	13860.9	13806.0	13726.9	13465.3	13189.2	12867.9	12357.6	12276.9	11798.9	11254.7	10679.9
7.5°	14939.6	14934.7	14887.9	14734.5	14482.6	14062.8	13447.6	13352.3	12630.5	11755.3	10864.0
10°	14783.0	14771.6	14849.2	15009.0	15084.9	14997.7	14479.4	14384.1	13497.6	12309.2	11077.1
12.5°	13893.2	13899.7	14024.0	14359.9	14816.9	15365.9	15281.9	15235.1	14397.0	12935.7	11335.5
15°	13200.5	13215.0	13313.5	13605.8	14145.1	15141.4	15769.6	15785.7	15267.4	13626.8	11637.4
17.5°	12896.9	12927.6	12972.8	13177.9	13672.0	14694.1	15885.8	15973.0	16029.5	14343.7	11928.1
20°	12993.8	13022.9	13035.8	13166.6	13571.9	14422.9	15805.1	15961.7	16614.1	15018.7	12218.7
22.5°	13428.2	13445.9	13454.0	13487.9	13802.8	14500.4	15751.8	15916.5	17037.1	15624.2	12438.3
25°	14148.4	14135.4	14083.8	14040.2	14251.7	14807.2	15874.5	16031.1	17381.1	16173.2	12582.1
27.5°	15010.6	14994.5	14894.4	14774.9	14896.0	15285.1	16228.1	16352.5	17689.5	16686.7	12654.7
30°	16045.7	16003.7	15814.8	15672.7	15719.5	16002.1	16811.1	16924.1	18165.8	17269.7	12725.8
32.5°	17242.2	17197.0	16924.1	16688.3	16688.3	16924.1	17411.8	17505.4	18569.5	17928.5	12840.4
35°	18740.7	18684.2	18328.9	17933.3	17821.9	17941.4	18230.4	18296.6	19296.2	18758.4	13048.7
37.5°	20507.2	20431.3	19971.1	19441.5	19197.7	19191.2	19399.5	19535.1	20457.2	19848.4	13402.3
40°	22278.6	22225.3	21823.2	21406.6	20928.7	20775.3	21096.6	21138.6	21975.0	21201.5	13854.5
42.5°	23647.9	23638.2	23563.9	23618.8	23129.5	22819.5	23071.4	23105.3	23828.7	22666.1	14335.7
45°	24371.3	24387.4	24747.5	25545.2	25726.1	25500.0	25624.3	25634.0	25947.3	24143.6	14776.5
47.5°	23791.6	23875.6	24786.3	26570.6	28051.3	28802.1	28595.4	28714.9	28001.2	25412.8	15122.0
50°	21532.6	21635.9	23186.1	26113.6	29136.4	31997.7	31889.5	31862.1	29657.9	26342.9	15309.4
52.5°	18734.2	18815.0	20093.8	23738.3	28340.3	33764.2	34757.3	34615.2	31130.6	27038.8	15344.9
55°	14472.9	14598.9	15824.5	18997.4	25120.5	33089.3	36866.1	36738.6	32472.4	27403.8	15302.9
57°	10289.1	10421.5	11639.1	14498.8	21132.1	30752.7	37076.1	37211.7	33197.5	27465.1	15349.7
57.5°	9181.4	9317.1	10523.3	13300.6	19888.8	29908.2	36895.2	37121.3	33328.3	27455.4	15375.6
60°	4623.0	4674.7	5443.3	7424.6	12572.4	24179.1	34536.1	35119.0	33446.1	26980.7	15487.0
62.5°	2874.2	2837.1	2812.9	3420.0	6116.6	16034.4	29667.6	30789.9	31190.3	25831.0	15217.3
65°	2527.1	2457.6	2191.2	2142.8	2701.5	7787.9	22341.6	23738.3	26370.3	24019.3	14574.7
67.5°	2373.7	2305.8	2005.5	1824.7	1826.3	3087.4	13870.6	15443.4	20542.7	20956.1	13058.4
70°	2215.4	2154.1	1873.1	1660.0	1555.0	1710.0	6381.5	7574.7	13391.0	16472.0	10914.0
72.5°	2012.0	1970.0	1703.6	1483.9	1372.5	1280.5	2443.1	2885.5	7752.4	11062.6	7579.6
75°	1798.8	1760.1	1532.4	1322.5	1186.8	1007.6	1375.8	1482.3	3938.4	5659.7	3731.7
77.5°	1564.7	1542.1	1362.8	1169.1	1060.9	834.8	973.7	1025.4	1689.0	2427.0	1871.5
80°	1245.0	1288.6	1191.7	1041.5	941.4	668.5	689.5	723.4	983.4	1185.2	1062.5
82.5°	810.6	886.5	933.3	846.1	775.1	526.4	495.7	510.3	641.1	723.4	461.8
85°	337.5	379.5	613.6	553.9	515.1	384.3	332.6	339.1	397.2	411.8	188.9
87.5°	150.2	159.9	269.7	253.5	218.0	132.4	142.1	155.0	211.5	200.2	72.7
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°	10421.5	10421.5	10421.5	10421.5	10421.5	10421.5	10421.5	10421.5	10421.5	10421.5	10421.5
2.5°	10431.2	10295.6	10063.1	9806.3	9596.4	9428.5	9258.9	9142.7	9007.0	8934.4	8897.2
5°	10439.3	10172.9	9683.6	9181.4	8732.5	8322.4	7931.6	7631.3	7350.3	7198.5	7156.5
7.5°	10473.2	10072.8	9281.5	8454.8	7657.1	6928.9	6366.9	6014.9	5761.4	5648.4	5616.1
10°	10500.7	9954.9	8784.2	7560.2	6475.1	5737.2	5301.2	5104.2	5017.0	5002.5	4987.9
12.5°	10565.2	9833.8	8261.0	6626.9	5556.3	5046.1	4894.3	4881.4	4905.6	4941.1	4941.1
15°	10667.0	9714.3	7663.6	5826.0	4971.8	4792.6	4823.2	4894.3	4960.5	5015.4	5023.5
17.5°	10741.3	9567.3	7020.9	5184.9	4660.1	4708.6	4818.4	4918.5	4986.3	5039.6	5044.5
20°	10794.5	9339.7	6334.6	4695.7	4480.9	4631.1	4768.3	4857.1	4904.0	4957.3	4965.3
22.5°	10767.1	9034.5	5725.9	4345.3	4335.6	4518.0	4648.8	4755.4	4719.9	4668.2	4702.1
25°	10634.7	8614.6	5099.4	4083.7	4182.2	4366.3	4527.7	4456.7	4337.2	4314.6	4327.5
27.5°	10398.9	8078.5	4519.7	3841.5	4004.6	4225.8	4216.1	4145.0	4103.1	4074.0	4091.8
30°	10145.4	7497.2	4012.6	3629.9	3807.6	3990.0	3952.9	3951.3	3909.3	3862.5	3885.1
32.5°	9895.1	6912.7	3610.6	3455.5	3659.0	3683.2	3764.0	3788.2	3705.8	3607.3	3600.9
35°	9677.1	6360.5	3305.4	3297.3	3479.8	3483.0	3600.9	3567.0	3361.9	3260.2	3260.2
37.5°	9514.1	5809.8	3072.9	3155.2	3244.0	3328.0	3387.7	3247.2	3213.3	3156.8	3155.2
40°	9443.0	5325.4	2927.5	3047.0	3077.7	3184.3	3030.9	3085.8	3101.9	3072.9	3072.9
42.5°	9368.7	4904.0	2801.6	2964.7	2959.8	2945.3	2867.8	2938.8	3003.4	3005.0	3000.2
45°	9294.4	4540.7	2690.2	2788.7	2856.5	2699.8	2714.4	2790.3	2880.7	2913.0	2913.0
47.5°	9212.1	4253.2	2588.4	2603.0	2707.9	2603.0	2591.7	2649.8	2756.4	2808.0	2819.3
50°	9031.2	3994.9	2472.2	2439.9	2468.9	2504.5	2514.2	2541.6	2659.5	2741.8	2761.2
52.5°	8781.0	3764.0	2323.6	2289.7	2289.7	2423.7	2468.9	2477.0	2577.1	2675.6	2695.0
55°	8572.7	3617.0	2170.2	2163.8	2157.3	2338.1	2415.7	2428.6	2498.0	2575.5	2585.2
57°	8587.2	3605.7	2052.3	2058.8	2057.2	2250.9	2365.6	2393.0	2428.6	2494.8	2506.1
57.5°	8595.3	3613.8	2026.5	2029.7	2028.1	2226.7	2351.1	2381.7	2409.2	2478.6	2489.9
60°	8716.4	3634.8	1921.5	1886.0	1894.1	2097.5	2268.7	2307.5	2325.2	2417.3	2431.8
62.5°	8537.1	3541.1	1837.6	1752.0	1752.0	1961.9	2154.1	2215.4	2242.9	2367.2	2391.4
65°	8017.2	3277.9	1739.1	1600.2	1616.4	1826.3	2016.8	2116.9	2158.9	2313.9	2339.8
67.5°	7214.7	2972.7	1634.1	1464.6	1480.7	1684.2	1874.7	1982.9	2049.1	2255.8	2276.8
70°	6169.9	2599.7	1492.0	1320.9	1340.2	1529.2	1706.8	1829.5	1928.0	2200.9	2207.4
72.5°	4548.7	2131.5	1293.4	1162.6	1183.6	1348.3	1537.2	1679.3	1811.7	2063.6	2060.4
75°	2704.7	1666.4	1073.8	1002.8	1017.3	1170.7	1383.8	1556.6	1755.2	2010.4	2041.0
77.5°	1640.6	1254.7	875.2	839.7	857.4	1014.1	1274.0	1458.1	1731.0	1895.7	1886.0
80°	991.5	896.2	699.2	676.6	694.3	867.1	1178.8	1383.8	1513.0	1619.6	1619.6
82.5°	518.3	547.4	513.5	495.7	519.9	704.0	1072.2	1207.8	1337.0	1148.1	1072.2
85°	211.5	285.8	311.6	310.0	324.6	487.7	925.2	1033.4	862.3	818.7	838.1
87.5°	71.0	121.1	151.8	130.8	137.3	306.8	641.1	499.0	592.6	413.4	392.4
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)