

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: P383554

Luminaire Tested: **GAN-SA8C-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383554
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-SA8C-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54175.1 lumens
Efficiency: N/A
Efficacy: 121.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

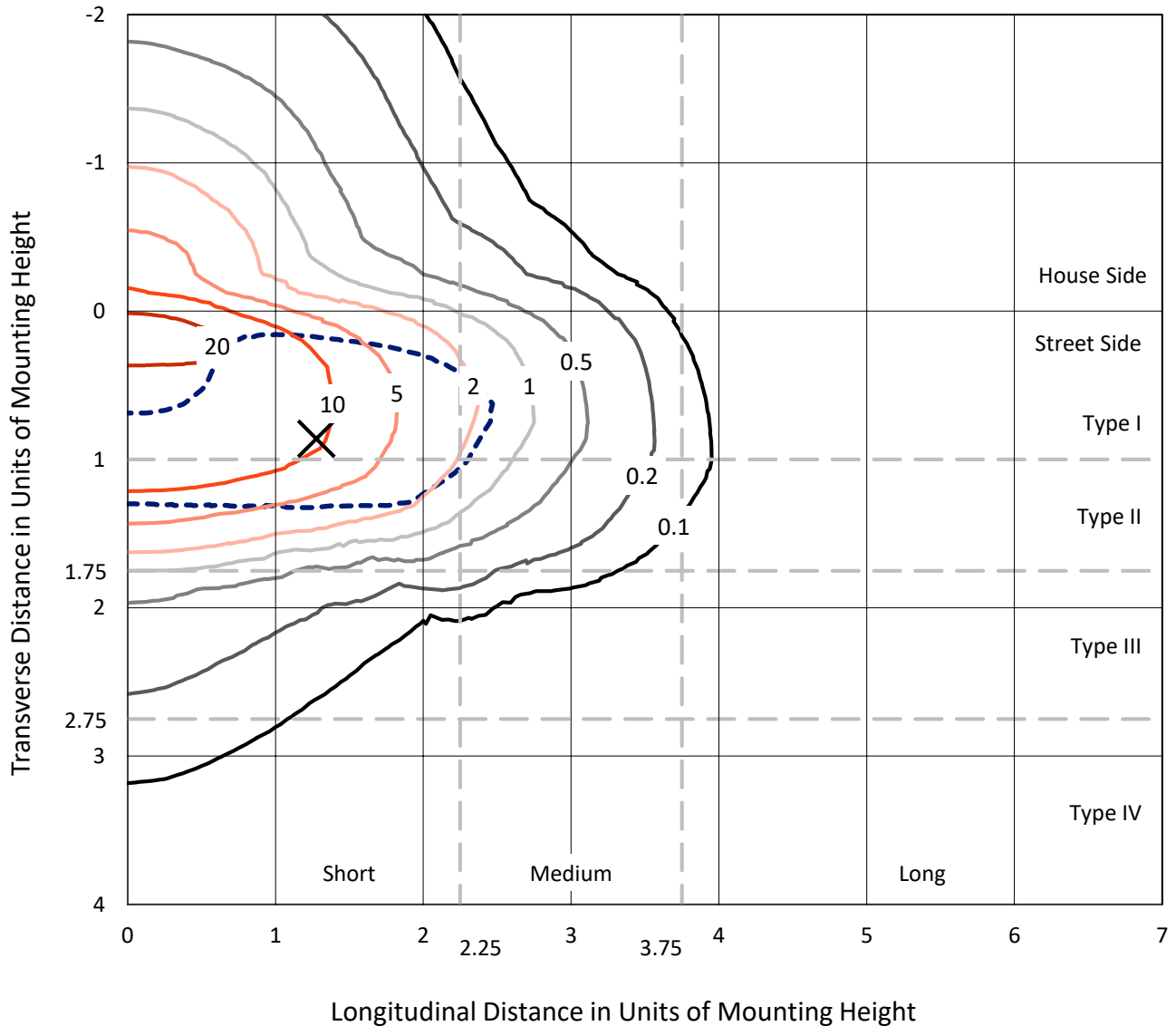
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

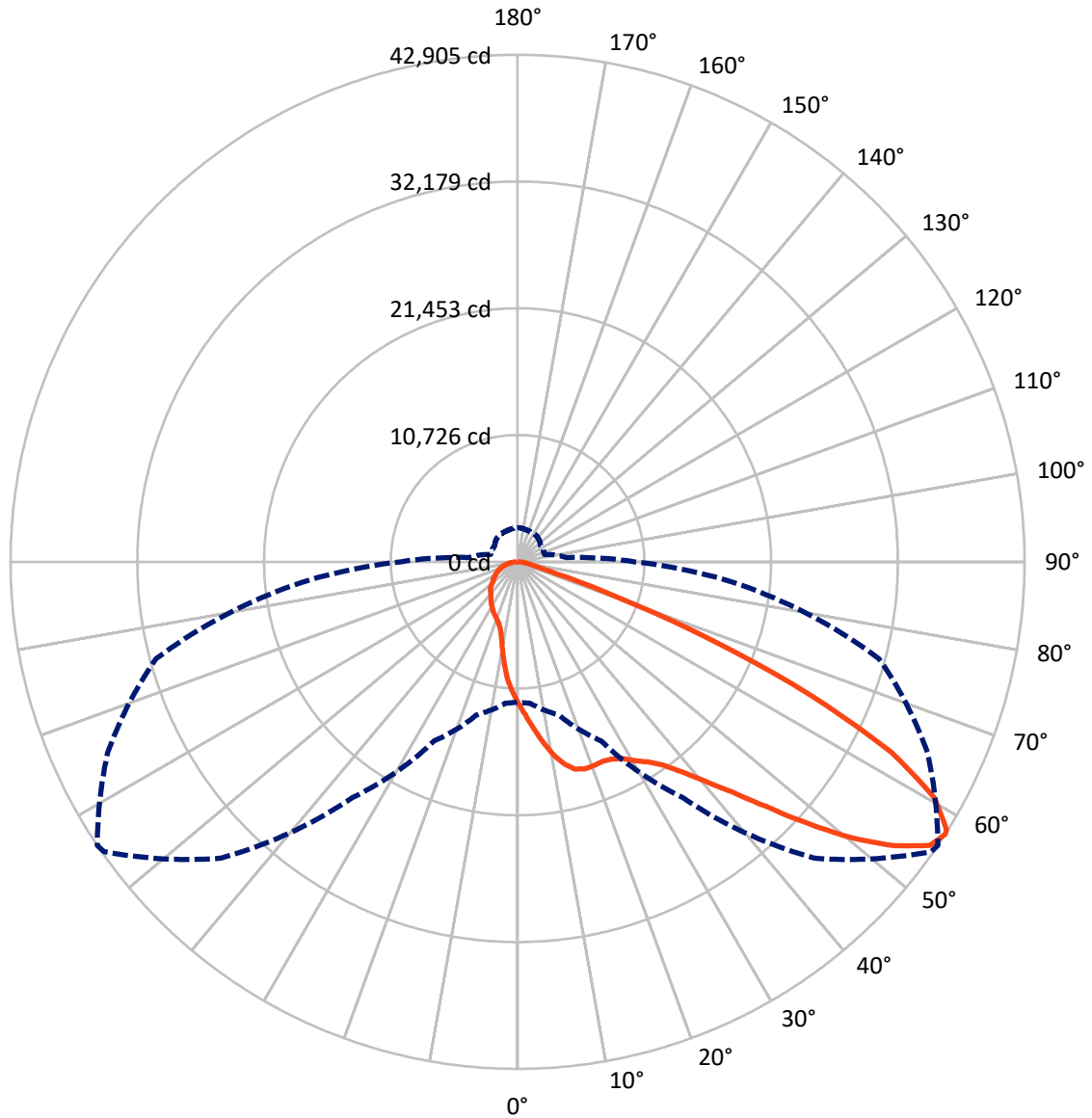
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 26.6 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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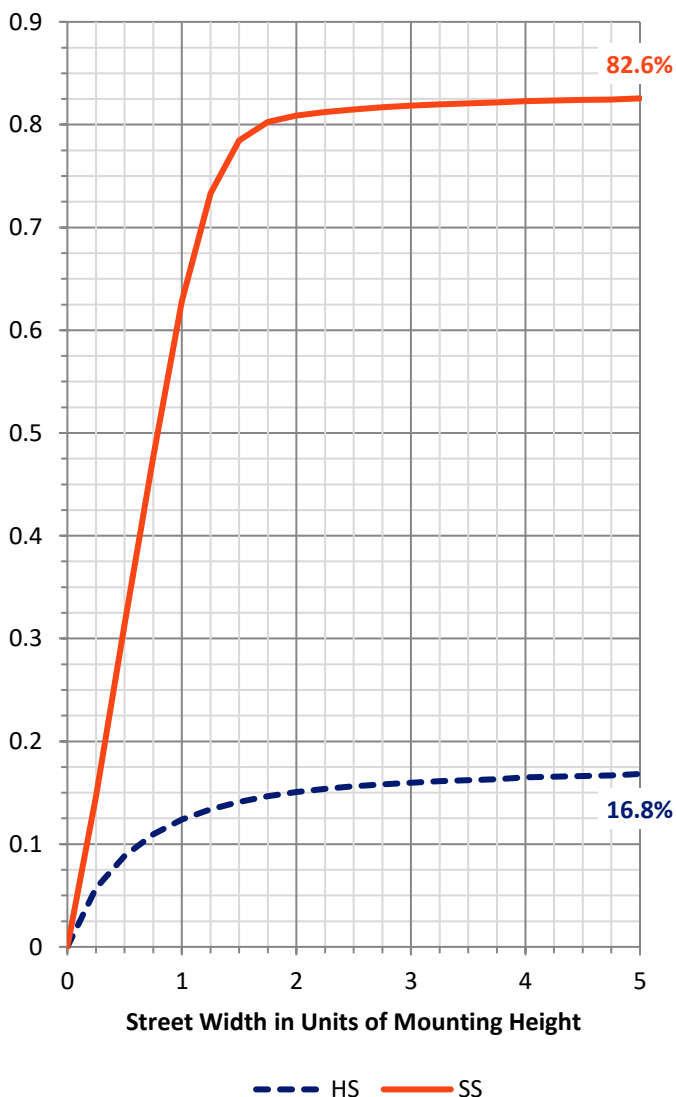
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9338.6	0.0	9338.6
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	44836.5	0.0	44836.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	54175.1	0.0	54175.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1147.8	2.1
10°-20°	3245.2	6.0
20°-30°	5285.8	9.8
30°-40°	7901.7	14.6
40°-50°	11985.2	22.1
50°-60°	13433.3	24.8
60°-70°	7934.2	14.6
70°-80°	2599.6	4.8
80°-90°	642.3	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°	54175.1	100.0
0°-180°	54175.1	100.0

Coefficient of Utilization

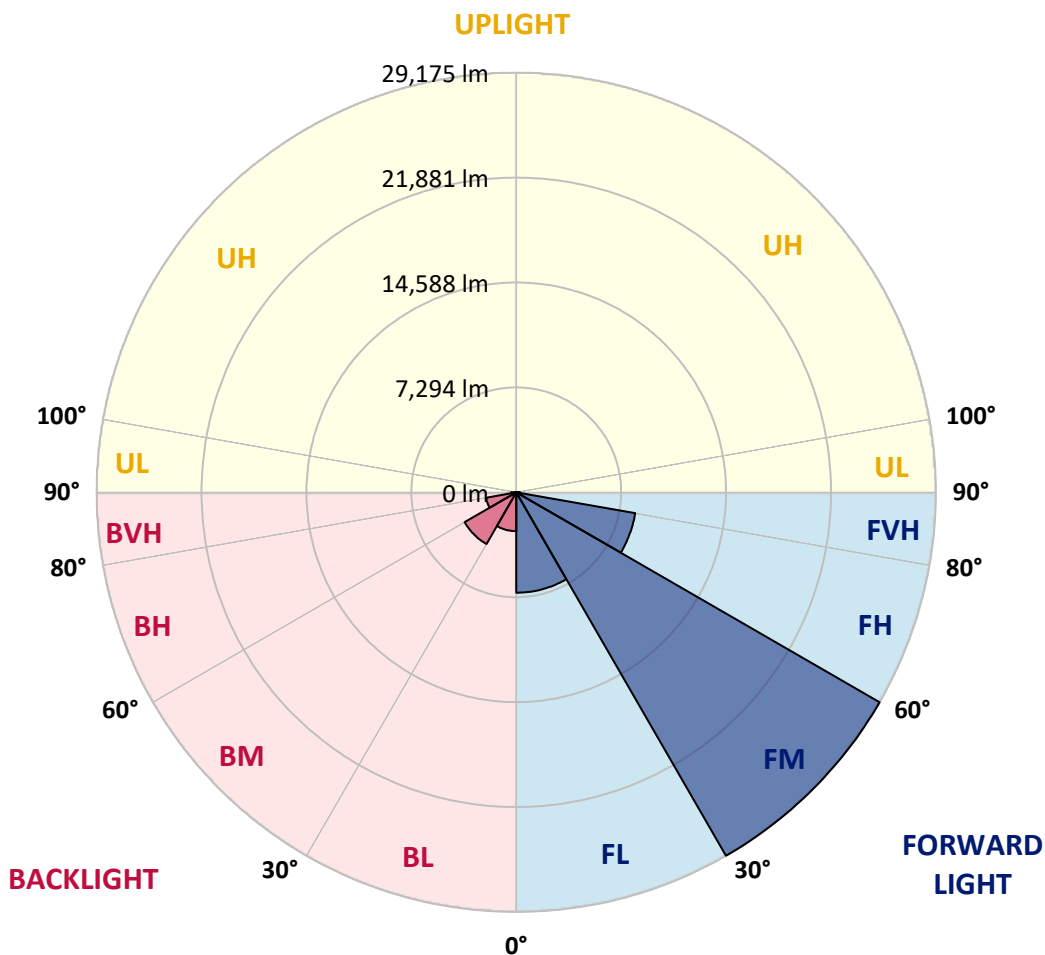


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6978.6	12.9			
FM (30°-60°)	29175.1	53.9			
FH (60°-80°)	8400.0	15.5			G4/12000
FVH (80°-90°)	282.8	0.5			G3/500
BL (0°-30°)	2700.3	5.0	B4/5000		
BM (30°-60°)	4145.1	7.7	B3/5000		
BH (60°-80°)	2133.8	3.9	B3/2500		G3/2500
BVH (80°-90°)	359.5	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	12016.1	12016.1	12016.1	12016.1	12016.1	12016.1	12016.1	12016.1	12016.1	12016.1	12016.1
2.5°	13797.8	13924.4	13868.6	13674.9	13526.0	13315.6	13081.1	13010.3	12762.7	12485.3	12152.0
5°	15981.7	15918.4	15827.2	15525.5	15207.2	14836.8	14248.4	14155.3	13604.2	12976.7	12313.9
7.5°	17225.4	17219.8	17165.8	16989.0	16698.5	16214.4	15505.1	15395.2	14563.1	13553.9	12526.2
10°	17044.8	17031.8	17121.2	17305.5	17393.0	17292.4	16694.8	16585.0	15562.8	14192.5	12772.0
12.5°	16019.0	16026.4	16169.8	16557.0	17083.9	17716.9	17620.1	17566.1	16599.8	14914.9	13069.9
15°	15220.3	15237.0	15350.6	15687.5	16309.4	17458.1	18182.4	18200.9	17603.4	15711.8	13418.0
17.5°	14870.2	14905.6	14957.8	15194.2	15763.9	16942.4	18316.5	18417.0	18482.1	16538.4	13753.2
20°	14981.9	15015.4	15030.3	15181.2	15648.4	16629.6	18223.3	18403.9	19156.1	17316.6	14088.3
22.5°	15482.8	15503.3	15512.6	15551.6	15914.7	16719.0	18161.9	18351.8	19643.9	18014.8	14341.5
25°	16313.2	16298.3	16238.6	16188.3	16432.3	17072.8	18303.4	18484.0	20040.5	18647.8	14507.2
27.5°	17307.3	17288.7	17173.3	17035.5	17175.1	17623.9	18711.2	18854.5	20396.0	19239.9	14590.9
30°	18500.7	18452.4	18234.5	18070.6	18124.7	18450.5	19383.3	19513.6	20945.3	19912.0	14672.9
32.5°	19880.3	19828.2	19513.6	19241.8	19241.8	19513.6	20075.9	20183.8	21410.8	20671.6	14805.1
35°	21608.1	21543.0	21133.4	20677.2	20548.7	20686.5	21019.8	21096.1	22248.5	21628.6	15045.2
37.5°	23644.9	23557.4	23026.8	22416.1	22135.0	22127.5	22367.7	22524.1	23587.2	22885.3	15453.0
40°	25687.3	25625.8	25162.3	24681.9	24130.8	23954.0	24324.5	24372.9	25337.3	24445.5	15974.3
42.5°	27266.1	27254.9	27169.3	27232.6	26668.4	26311.0	26601.5	26640.6	27474.6	26134.1	16529.1
45°	28100.2	28118.9	28534.0	29453.8	29662.2	29401.6	29545.0	29556.1	29917.3	27837.7	17037.4
47.5°	27431.8	27528.6	28578.7	30636.0	32343.2	33209.0	32970.7	33108.4	32285.6	29301.1	17435.8
50°	24827.1	24946.3	26733.6	30109.1	33594.4	36893.5	36768.7	36737.1	34195.7	30373.5	17651.8
52.5°	21600.6	21693.7	23168.3	27370.4	32676.5	38930.3	40075.4	39911.5	35893.7	31175.9	17692.7
55°	16687.4	16832.6	18245.7	21904.1	28964.1	38152.1	42506.9	42359.8	37440.9	31596.7	17644.3
57°	11863.4	12016.1	13419.9	16717.2	24365.5	35458.1	42748.9	42905.3	38276.8	31667.4	17698.3
57.5°	10586.2	10742.6	12133.4	15335.7	22931.8	34484.3	42540.3	42801.0	38427.6	31656.2	17728.1
60°	5330.3	5389.9	6276.1	8560.5	14496.0	27878.6	39820.3	40492.4	38563.6	31108.8	17856.6
62.5°	3314.0	3271.2	3243.3	3943.3	7052.5	18487.7	34206.9	35500.9	35962.6	29783.3	17545.6
65°	2913.7	2833.7	2526.5	2470.7	3114.8	8979.5	25759.9	27370.4	30405.2	27694.4	16804.7
67.5°	2736.9	2658.6	2312.4	2103.8	2105.7	3559.7	15992.9	17806.3	23685.9	24162.5	15056.4
70°	2554.4	2483.7	2159.7	1914.0	1792.9	1971.6	7357.8	8733.7	15439.9	18992.3	12583.9
72.5°	2319.8	2271.4	1964.2	1711.0	1582.5	1476.4	2816.9	3327.0	8938.5	12755.2	8739.3
75°	2074.1	2029.4	1766.9	1524.9	1368.4	1161.7	1586.2	1709.1	4540.9	6525.6	4302.6
77.5°	1804.1	1778.0	1571.3	1347.9	1223.2	962.6	1122.7	1182.2	1947.5	2798.3	2157.8
80°	1435.4	1485.7	1374.0	1200.9	1085.4	770.8	795.0	834.1	1133.9	1366.6	1225.1
82.5°	934.6	1022.1	1076.1	975.6	893.6	606.9	571.6	588.4	739.1	834.1	532.5
85°	389.1	437.5	707.5	638.6	594.0	443.1	383.5	391.0	458.0	474.7	217.8
87.5°	173.2	184.4	311.0	292.3	251.3	152.7	163.9	178.8	243.9	230.8	83.7
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°	12016.1	12016.1	12016.1	12016.1	12016.1	12016.1	12016.1	12016.1	12016.1	12016.1	12016.1
2.5°	12027.2	11870.9	11602.8	11306.8	11064.7	10871.1	10675.6	10541.6	10385.2	10301.3	10258.6
5°	12036.5	11729.4	11165.3	10586.2	10068.6	9595.8	9145.2	8798.8	8474.9	8299.9	8251.6
7.5°	12075.7	11614.0	10701.6	9748.4	8828.6	7989.0	7341.1	6935.2	6643.0	6512.6	6475.4
10°	12107.3	11478.1	10128.3	8717.0	7465.8	6615.0	6112.3	5885.1	5784.6	5767.9	5751.1
12.5°	12181.8	11338.4	9525.0	7640.8	6406.4	5818.2	5643.1	5628.2	5656.2	5697.2	5697.2
15°	12299.0	11200.6	8836.1	6717.4	5732.5	5525.8	5561.2	5643.1	5719.4	5782.8	5792.1
17.5°	12384.7	11031.2	8095.1	5978.2	5373.2	5429.1	5555.7	5671.1	5749.2	5810.7	5816.3
20°	12446.1	10768.7	7303.9	5414.2	5166.5	5339.6	5497.9	5600.3	5654.3	5715.7	5725.0
22.5°	12414.5	10416.8	6602.0	5010.1	4999.0	5209.3	5360.1	5483.0	5442.0	5382.5	5421.6
25°	12261.9	9932.7	5879.6	4708.5	4822.1	5034.4	5220.5	5138.6	5000.8	4974.7	4989.6
27.5°	11990.0	9314.6	5211.2	4429.2	4617.3	4872.4	4861.2	4779.2	4730.9	4697.3	4717.8
30°	11697.7	8644.4	4626.6	4185.4	4390.1	4600.5	4557.7	4555.8	4507.4	4453.4	4479.5
32.5°	11409.1	7970.4	4163.0	3984.2	4218.9	4246.7	4339.9	4367.7	4272.8	4159.3	4151.8
35°	11157.8	7333.6	3811.1	3801.8	4012.2	4015.9	4151.8	4112.7	3876.3	3759.0	3759.0
37.5°	10969.7	6698.8	3543.0	3638.0	3740.3	3837.1	3906.1	3744.1	3705.0	3639.8	3638.0
40°	10887.8	6140.2	3375.5	3513.2	3548.6	3671.5	3494.6	3558.0	3576.5	3543.0	3543.0
42.5°	10802.2	5654.3	3230.2	3418.3	3412.7	3396.0	3306.5	3388.5	3462.9	3464.8	3459.2
45°	10716.5	5235.4	3101.8	3215.3	3293.5	3113.0	3129.7	3217.2	3321.4	3358.7	3358.7
47.5°	10621.6	4903.9	2984.5	3001.3	3122.3	3001.3	2988.2	3055.2	3178.1	3237.7	3250.7
50°	10413.0	4606.1	2850.4	2813.2	2846.7	2887.7	2898.8	2930.5	3066.4	3161.3	3183.7
52.5°	10124.5	4339.9	2679.1	2640.0	2640.0	2794.5	2846.7	2856.0	2971.5	3085.0	3107.4
55°	9884.3	4170.4	2502.2	2494.8	2487.3	2695.9	2785.2	2800.1	2880.3	2969.6	2980.8
57°	9901.0	4157.4	2366.3	2373.8	2371.9	2595.4	2727.6	2759.2	2800.1	2876.5	2889.5
57.5°	9910.4	4166.7	2336.6	2340.3	2338.5	2567.4	2710.8	2746.2	2777.8	2857.9	2870.9
60°	10050.0	4190.9	2215.6	2174.6	2183.9	2418.5	2615.9	2660.5	2681.0	2787.1	2803.9
62.5°	9843.4	4083.0	2118.7	2020.1	2020.1	2262.1	2483.7	2554.4	2586.1	2729.4	2757.3
65°	9243.8	3779.5	2005.2	1845.0	1863.7	2105.7	2325.4	2440.8	2489.2	2668.0	2697.8
67.5°	8318.5	3427.5	1884.1	1688.6	1707.2	1941.9	2161.6	2286.3	2362.6	2601.0	2625.1
70°	7113.9	2997.5	1720.3	1523.0	1545.3	1763.1	1967.9	2109.4	2223.0	2537.6	2545.1
72.5°	5244.7	2457.6	1491.3	1340.5	1364.7	1554.6	1772.5	1936.3	2088.9	2379.4	2375.6
75°	3118.5	1921.4	1238.1	1156.1	1172.9	1349.8	1595.6	1794.8	2023.8	2318.0	2353.3
77.5°	1891.6	1446.6	1009.1	968.2	988.7	1169.2	1469.0	1681.2	1995.8	2185.8	2174.6
80°	1143.1	1033.3	806.2	780.1	800.6	999.8	1359.1	1595.6	1744.5	1867.4	1867.4
82.5°	597.7	631.1	592.1	571.6	599.5	811.8	1236.3	1392.7	1541.6	1323.7	1236.3
85°	243.9	329.6	359.3	357.4	374.2	562.3	1066.8	1191.5	994.2	943.9	966.3
87.5°	81.9	139.6	175.0	150.8	158.3	353.7	739.1	575.3	683.3	476.6	452.5
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)