

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: P317403

Luminaire Tested: **GAN-SA9B-730-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317403
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-SA9B-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48470 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G5

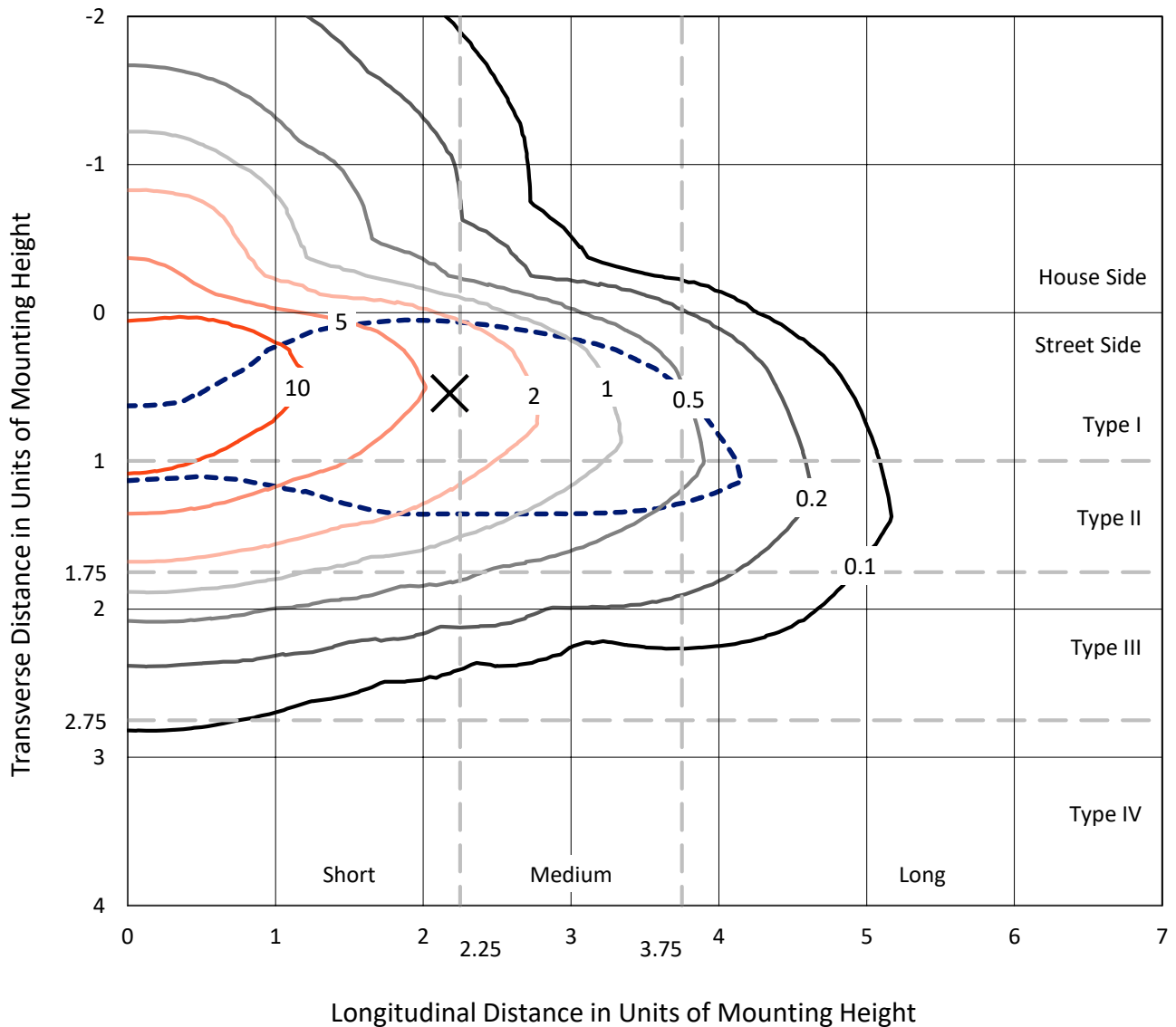
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P317403
 CATALOG NUMBER: GAN-SA9B-730-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

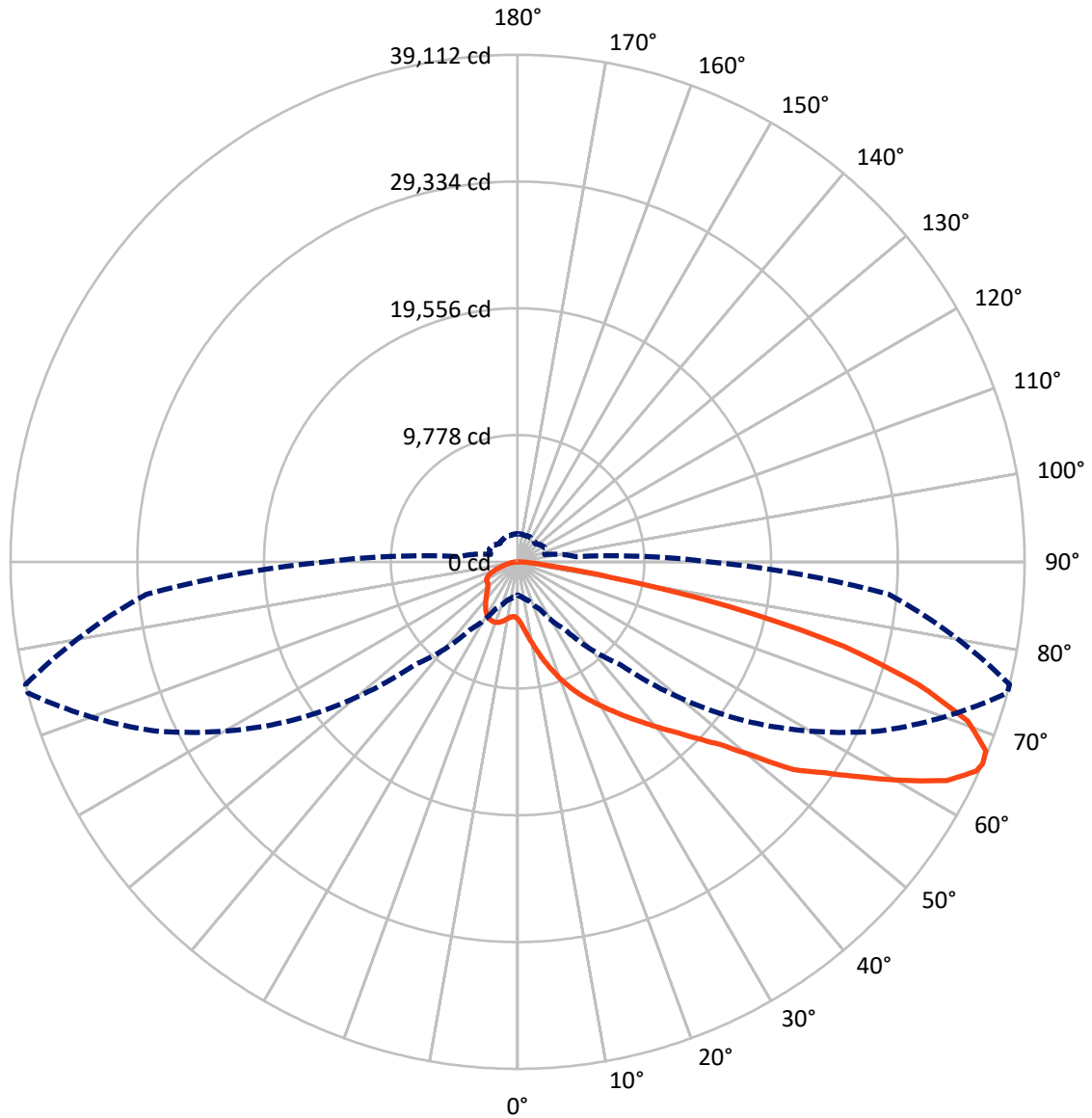
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - N/A

REPORT NUMBER: P317403
CATALOG NUMBER: GAN-SA9B-730-U-T2R

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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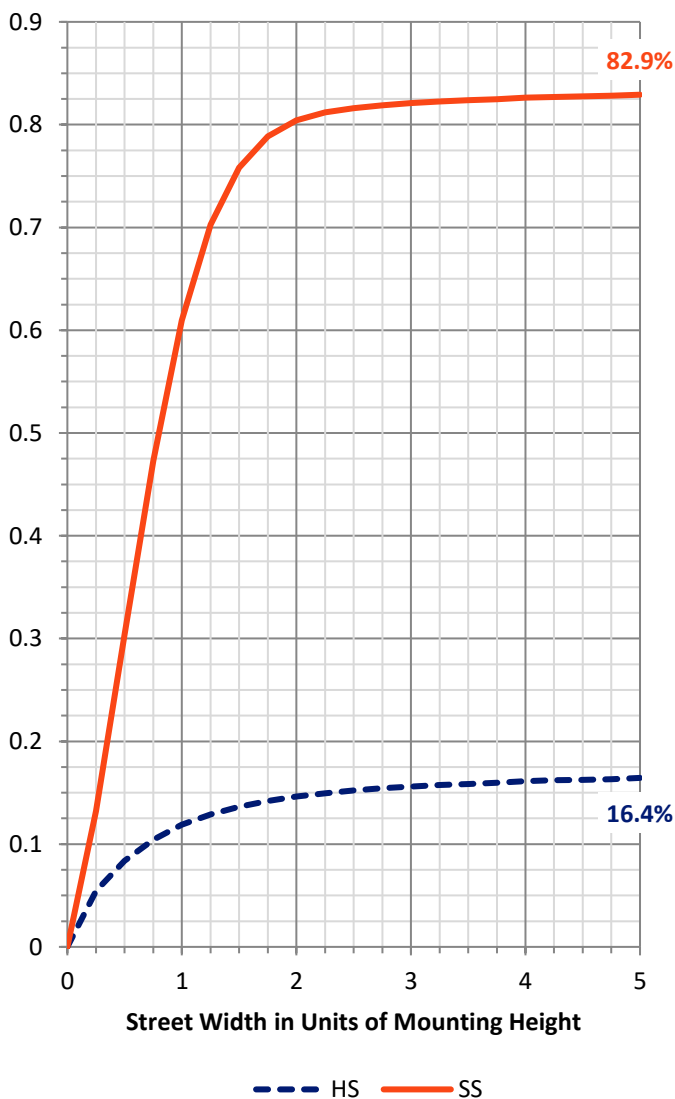
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8155.8	0.0	8155.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	40314.2	0.0	40314.2
	% Fixture	83.2	0.0	83.2
Total	Lumens	48470.0	0.0	48470.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	535.3	1.1
10°-20°	2113.8	4.4
20°-30°	4107.5	8.5
30°-40°	6704.4	13.8
40°-50°	9159.9	18.9
50°-60°	10669.4	22.0
60°-70°	9565.3	19.7
70°-80°	4833.9	10.0
80°-90°	780.6	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°	48470.0	100.0
0°-180°	48470.0	100.0

Coefficient of Utilization

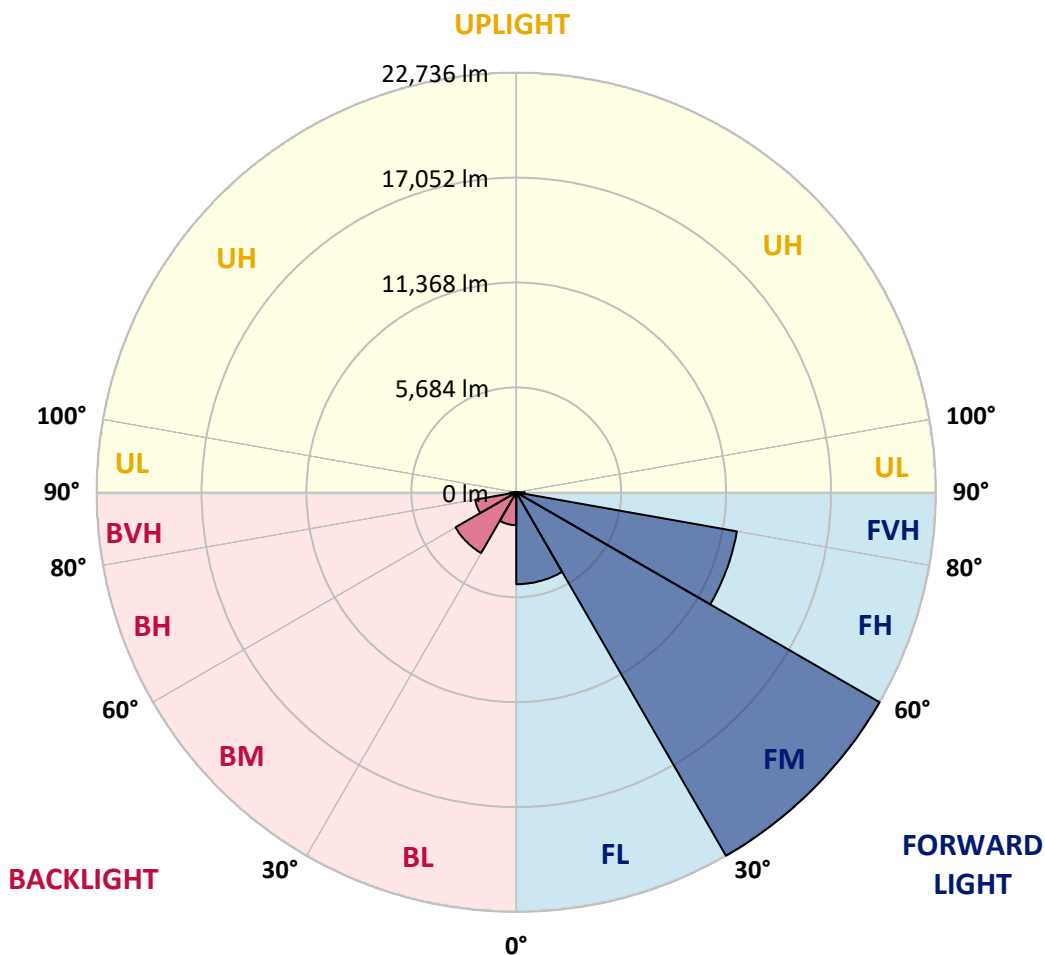


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 CATALOG NUMBER: GAN-SA9B-730-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4977.7	10.3			
FM (30°-60°)	22735.8	46.9			
FH (60°-80°)	12139.6	25.0			G5
FVH (80°-90°)	461.0	1.0			G3/500
BL (0°-30°)	1778.8	3.7	B3/2500		
BM (30°-60°)	3797.9	7.8	B3/5000		
BH (60°-80°)	2259.6	4.7	B3/2500		G3/2500
BVH (80°-90°)	319.6	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°	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4
2.5°	5876.1	5787.2	5779.0	5649.0	5619.4	5370.9	5188.3	4997.4	4780.2	4737.4	4566.3
5°	7547.9	7539.7	7426.2	7213.9	7047.7	6623.2	6203.5	5759.3	5272.2	5193.2	4808.2
7.5°	9051.9	9038.8	8951.5	8722.8	8482.6	7960.9	7362.0	6680.7	5890.9	5774.1	5135.6
10°	10193.9	10189.0	10159.3	9991.5	9787.5	9287.2	8625.7	7696.0	6610.0	6450.4	5545.3
12.5°	11075.9	11085.8	11105.5	11046.3	10949.2	10523.0	9845.0	8772.2	7376.8	7218.8	6001.2
15°	11673.2	11702.8	11804.8	11888.8	11939.8	11678.1	11021.6	9873.0	8235.7	8046.5	6506.3
17.5°	11974.3	12007.2	12183.3	12436.7	12670.4	12644.0	12122.4	10922.9	9060.1	8877.5	7049.3
20°	12234.3	12259.0	12456.5	12760.9	13173.9	13356.6	13063.7	11933.2	9963.5	9746.3	7625.3
22.5°	12988.0	13019.2	13078.5	13251.2	13616.5	13952.2	13810.7	12889.2	10791.2	10588.8	8171.6
25°	14442.6	14480.4	14352.1	14205.6	14274.7	14508.4	14534.7	13761.3	11630.4	11401.7	8759.0
27.5°	16195.0	16249.3	16030.5	15653.7	15324.6	15234.1	15202.8	14475.5	12431.8	12166.9	9339.9
30°	17911.3	18005.1	17720.4	17231.7	16627.8	16203.3	15889.0	15174.8	13221.6	12968.2	9887.8
32.5°	19588.1	19550.2	19137.2	18660.0	17952.4	17420.9	16660.7	15925.2	14110.2	13818.9	10432.5
35°	20736.6	20749.8	20366.4	19800.3	19125.7	18717.6	17694.1	16734.8	15016.9	14748.6	11051.2
37.5°	21714.1	21653.2	21218.8	20690.6	20109.7	19935.3	18903.5	17626.6	15999.2	15706.3	11709.4
40°	22039.9	21969.1	21684.4	21304.3	20838.7	20823.8	20238.0	18637.0	17109.9	16820.3	12451.5
42.5°	21842.4	21751.9	21635.1	21531.4	21388.3	21454.1	21491.9	19821.7	18330.9	18006.7	13310.5
45°	21113.5	20976.9	21059.2	21284.6	21595.6	21967.5	22624.0	21133.2	19698.3	19426.8	14319.2
47.5°	19992.9	19869.5	20126.2	20608.3	21454.1	22395.3	23695.2	22581.2	21330.7	21060.8	15755.7
50°	18416.5	18452.7	18819.6	19696.7	20975.2	22592.8	25014.9	24498.3	23703.5	23451.7	17715.5
52.5°	15829.7	15836.3	16869.7	18309.5	20126.2	22490.7	25747.2	26948.4	26943.5	26639.1	19581.5
55°	13427.3	13573.8	14391.6	16305.3	18750.5	22082.7	26258.9	28139.8	29071.1	28714.0	21320.8
57.5°	11080.8	11166.4	11941.4	13863.4	16787.4	20995.0	26783.9	29569.7	31522.9	31297.5	23483.0
60°	8411.8	8543.5	9344.8	11120.3	14276.4	19064.8	26833.2	31062.2	34453.6	34226.5	25896.9
62.5°	5459.8	5686.9	6437.2	8100.8	11238.8	16288.8	25688.0	32038.0	37231.2	37150.5	28039.4
65°	3138.0	3309.1	3830.7	5114.2	7753.6	12803.7	22964.6	31662.8	38940.8	38894.8	28840.7
66°	2563.7	2670.7	3070.5	3996.9	6397.7	11243.7	21381.7	30871.3	39110.3	39112.0	28748.6
67.5°	2050.3	2098.0	2277.4	2861.5	4720.9	8912.0	18553.1	29125.4	38899.7	38957.3	28154.6
70°	1696.5	1721.2	1777.1	1918.7	2576.9	5374.2	13169.0	24588.8	36785.2	36829.7	25836.0
72.5°	1522.1	1536.9	1558.3	1578.0	1818.3	3003.0	8043.2	19670.3	32251.9	32309.5	22303.2
75°	1378.9	1387.2	1383.9	1385.5	1525.4	1913.7	4156.5	14686.1	26077.9	25962.8	17085.3
77.5°	1211.1	1219.3	1202.9	1206.2	1349.3	1471.1	2068.4	10281.1	17598.7	16785.8	9626.2
80°	1023.5	1030.1	1023.5	1035.0	1174.9	1110.7	1202.9	5783.9	7781.6	7360.3	3422.6
82.5°	773.4	801.4	821.1	867.2	967.6	789.8	804.7	2252.7	2369.5	2256.0	1049.8
85°	339.0	413.0	618.7	663.1	727.3	473.9	528.2	918.2	964.3	934.6	381.8
87.5°	88.9	97.1	306.1	385.0	403.1	213.9	274.8	418.0	441.0	418.0	126.7
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°	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4	4426.4
2.5°	4475.8	4395.1	4250.3	4122.0	4024.9	3959.1	3893.3	3860.4	3840.6	3820.9	3824.1
5°	4618.9	4456.0	4207.6	4031.5	3932.8	3870.2	3837.3	3824.1	3815.9	3796.2	3796.2
7.5°	4834.5	4604.1	4261.9	4080.8	4003.5	3955.8	3936.0	3929.5	3919.6	3896.6	3899.8
10°	5106.0	4783.5	4375.4	4199.3	4128.6	4075.9	4047.9	4038.1	4020.0	3993.6	3996.9
12.5°	5425.2	5005.6	4525.1	4340.8	4255.3	4184.5	4138.4	4110.5	4079.2	4044.6	4046.3
15°	5774.1	5247.5	4686.4	4467.5	4350.7	4252.0	4177.9	4130.2	4080.8	4038.1	4036.4
17.5°	6127.9	5481.2	4809.8	4536.7	4378.7	4248.7	4148.3	4074.3	4013.4	3960.7	3955.8
20°	6509.6	5691.8	4878.9	4530.1	4326.0	4171.4	4038.1	3945.9	3878.5	3825.8	3817.6
22.5°	6898.0	5889.3	4890.4	4462.6	4209.2	4020.0	3880.1	3778.1	3709.0	3654.7	3634.9
25°	7253.4	6042.3	4842.7	4332.6	4046.3	3842.3	3705.7	3602.0	3546.1	3481.9	3462.1
27.5°	7577.5	6149.2	4747.3	4166.4	3863.6	3662.9	3534.5	3445.7	3384.8	3335.4	3319.0
30°	7868.8	6206.8	4591.0	3969.0	3676.1	3493.4	3384.8	3323.9	3271.3	3208.7	3197.2
32.5°	8145.2	6206.8	4390.2	3753.4	3490.1	3343.7	3279.5	3241.6	3182.4	3121.5	3105.1
35°	8421.7	6169.0	4153.3	3528.0	3319.0	3236.7	3233.4	3189.0	3098.5	3016.2	2994.8
37.5°	8712.9	6091.7	3886.7	3317.3	3179.1	3189.0	3217.0	3118.2	2989.9	2873.0	2841.8
40°	9042.0	5984.7	3610.2	3134.7	3062.3	3167.6	3172.5	3016.2	2766.1	2659.1	2631.2
42.5°	9428.7	5877.7	3353.5	2973.4	2970.1	3103.4	3088.6	2795.7	2646.0	2591.7	2576.9
45°	9937.2	5816.9	3110.0	2820.4	2897.7	2999.8	2945.5	2673.9	2611.4	2580.1	2567.0
47.5°	10738.6	5848.1	2886.2	2698.6	2825.3	2896.1	2678.9	2624.6	2580.1	2542.3	2529.1
50°	11742.3	5830.0	2705.2	2614.7	2743.1	2787.5	2558.8	2560.4	2537.4	2494.6	2474.8
52.5°	12497.6	5688.5	2588.4	2567.0	2670.7	2595.0	2483.1	2497.9	2486.4	2423.8	2402.4
55°	13226.6	5566.7	2529.1	2548.9	2618.0	2354.7	2394.2	2430.4	2418.9	2358.0	2348.1
57.5°	14133.2	5543.7	2492.9	2553.8	2573.6	2234.6	2308.6	2356.4	2348.1	2321.8	2316.9
60°	15243.9	5550.3	2460.0	2562.0	2524.2	2145.7	2228.0	2288.9	2293.8	2288.9	2285.6
62.5°	15854.4	5370.9	2377.8	2539.0	2437.0	2068.4	2144.1	2232.9	2234.6	2244.5	2242.8
65°	15336.1	4834.5	2224.7	2458.4	2290.5	2004.2	2071.7	2168.8	2144.1	2188.5	2188.5
66°	14832.6	4525.1	2149.0	2405.7	2228.0	1979.5	2048.7	2135.9	2104.6	2165.5	2165.5
67.5°	13804.1	4003.5	2012.5	2293.8	2139.2	1945.0	2022.3	2081.6	2038.8	2129.3	2122.7
70°	11925.0	3096.8	1737.7	2040.4	1992.7	1894.0	1986.1	1973.0	1910.4	2048.7	2022.3
72.5°	10054.0	2353.1	1395.4	1708.0	1770.6	1829.8	1935.1	1834.7	1755.8	1852.8	1795.2
75°	7801.3	1768.9	1102.5	1327.9	1495.8	1729.4	1874.2	1675.1	1561.6	1551.7	1520.4
77.5°	4217.4	1214.4	873.8	1013.6	1188.1	1604.4	1833.1	1504.0	1332.9	1293.4	1268.7
80°	1670.2	789.8	635.2	768.5	831.0	1423.4	1734.4	1304.9	1099.2	1059.7	1021.9
82.5°	689.5	467.3	409.7	515.0	541.4	1217.7	1556.6	1069.6	849.1	1174.9	1247.3
85°	296.2	256.7	243.5	266.6	306.1	854.0	1239.1	816.2	916.5	817.8	650.0
87.5°	88.9	108.6	103.7	102.0	111.9	204.0	659.8	454.2	673.0	255.1	190.9
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)