

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: P321952

Luminaire Tested: **GAN-SA8A-750-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321952
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8A-750-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26569 lumens
Efficiency: N/A
Efficacy: 103.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

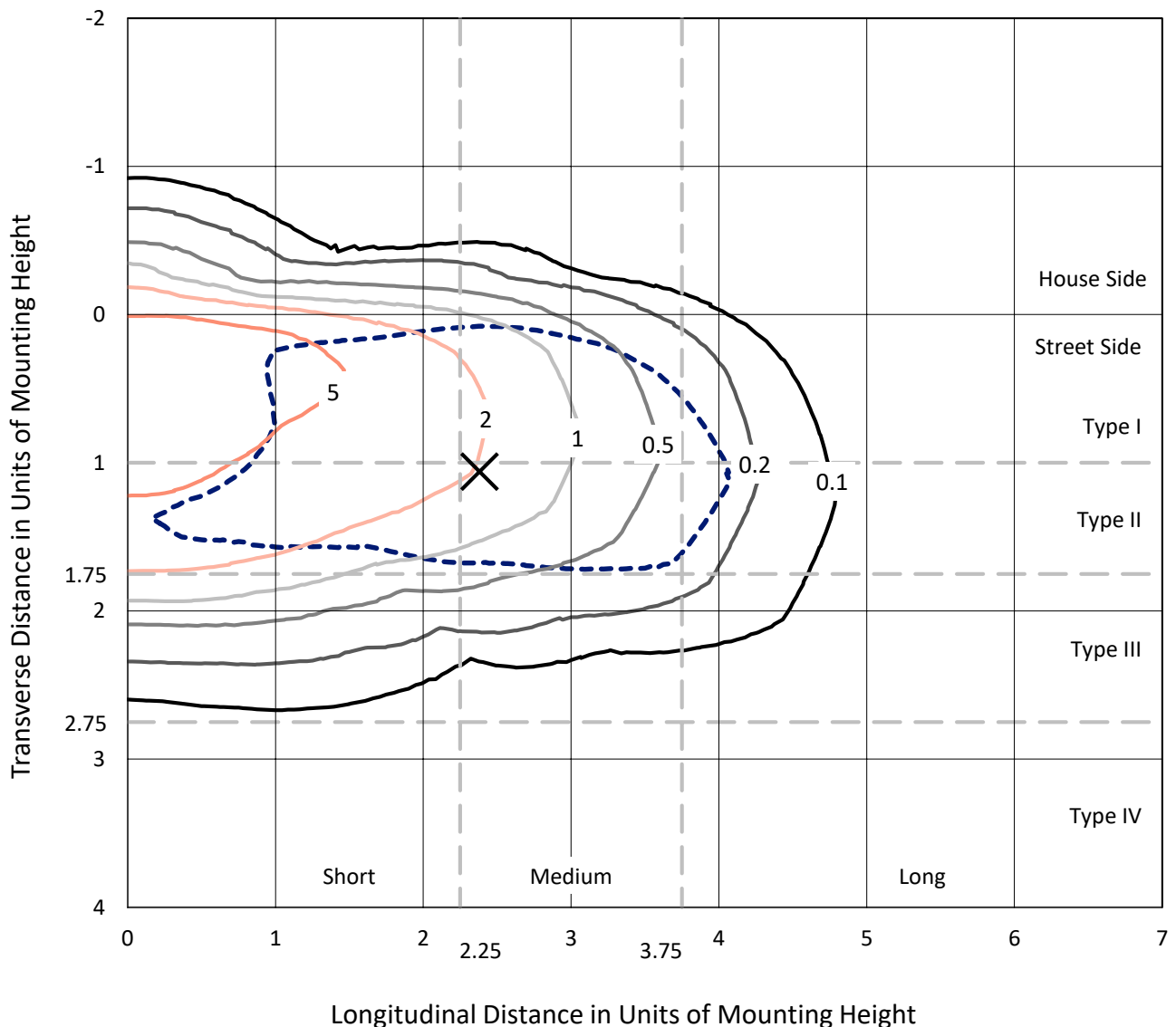
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

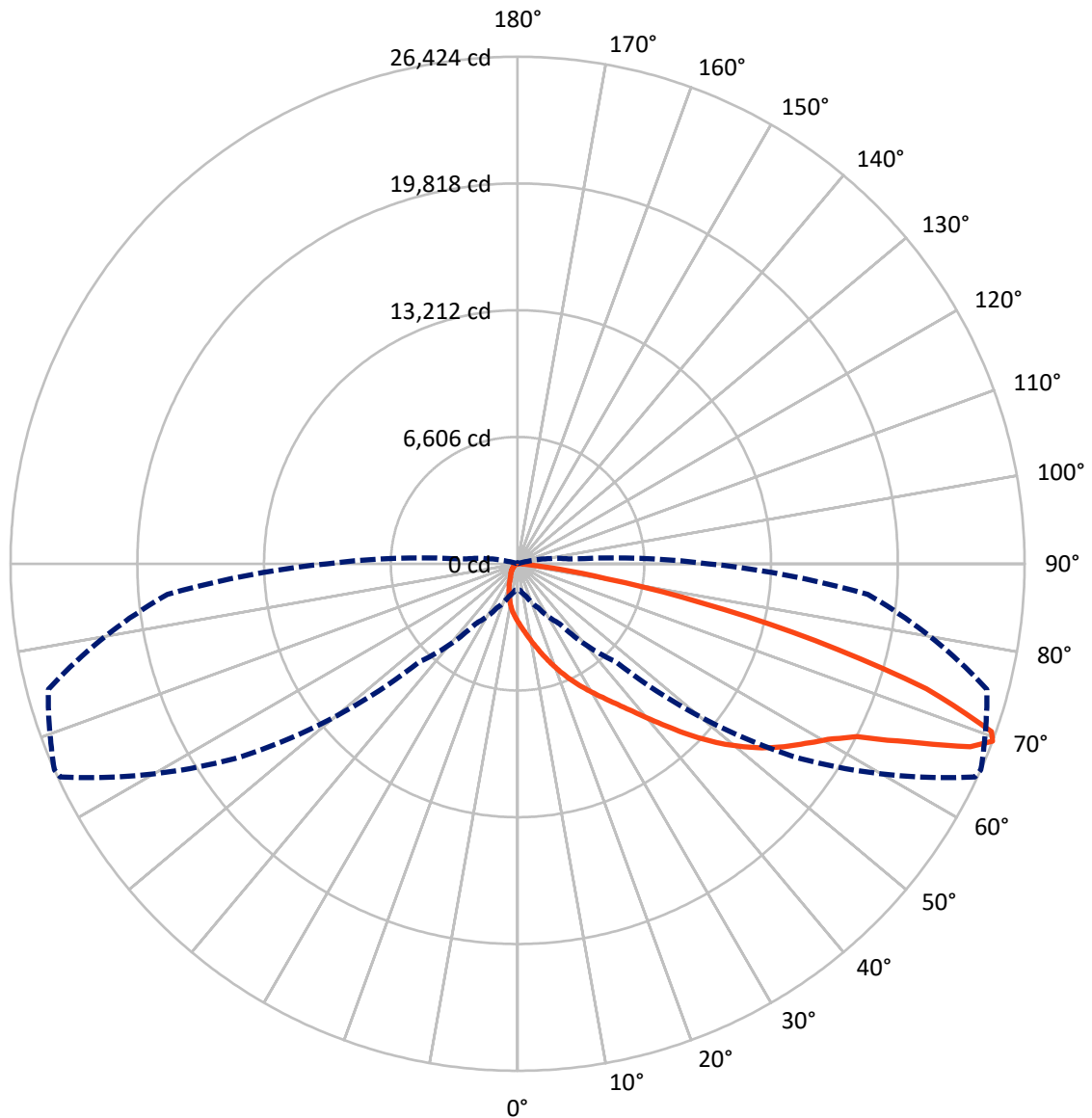
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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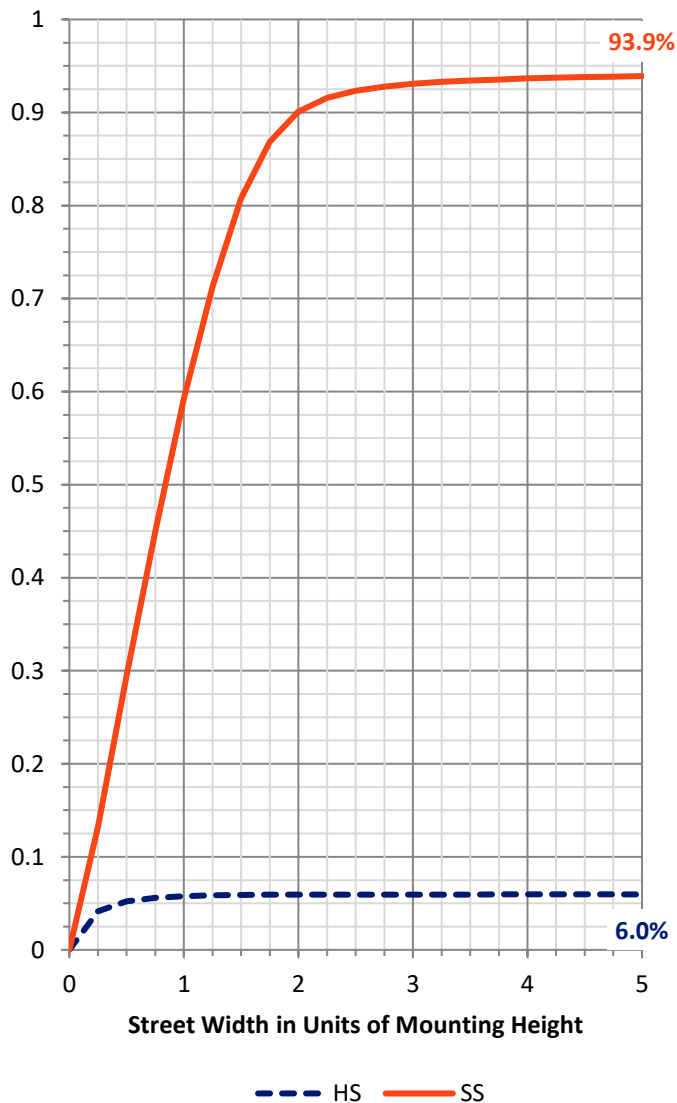
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1593.8	0.0	1593.8
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	24975.2	0.0	24975.2
	% Fixture	94.0	0.0	94.0
Total	Lumens	26569.0	0.0	26569.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.3	1.1
10°-20°	869.9	3.3
20°-30°	1514.8	5.7
30°-40°	2657.6	10.0
40°-50°	4448.5	16.7
50°-60°	6538.8	24.6
60°-70°	6713.7	25.3
70°-80°	3314.4	12.5
80°-90°	219.1	0.8
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°	26569.0	100.0
0°-180°	26569.0	100.0

Coefficient of Utilization



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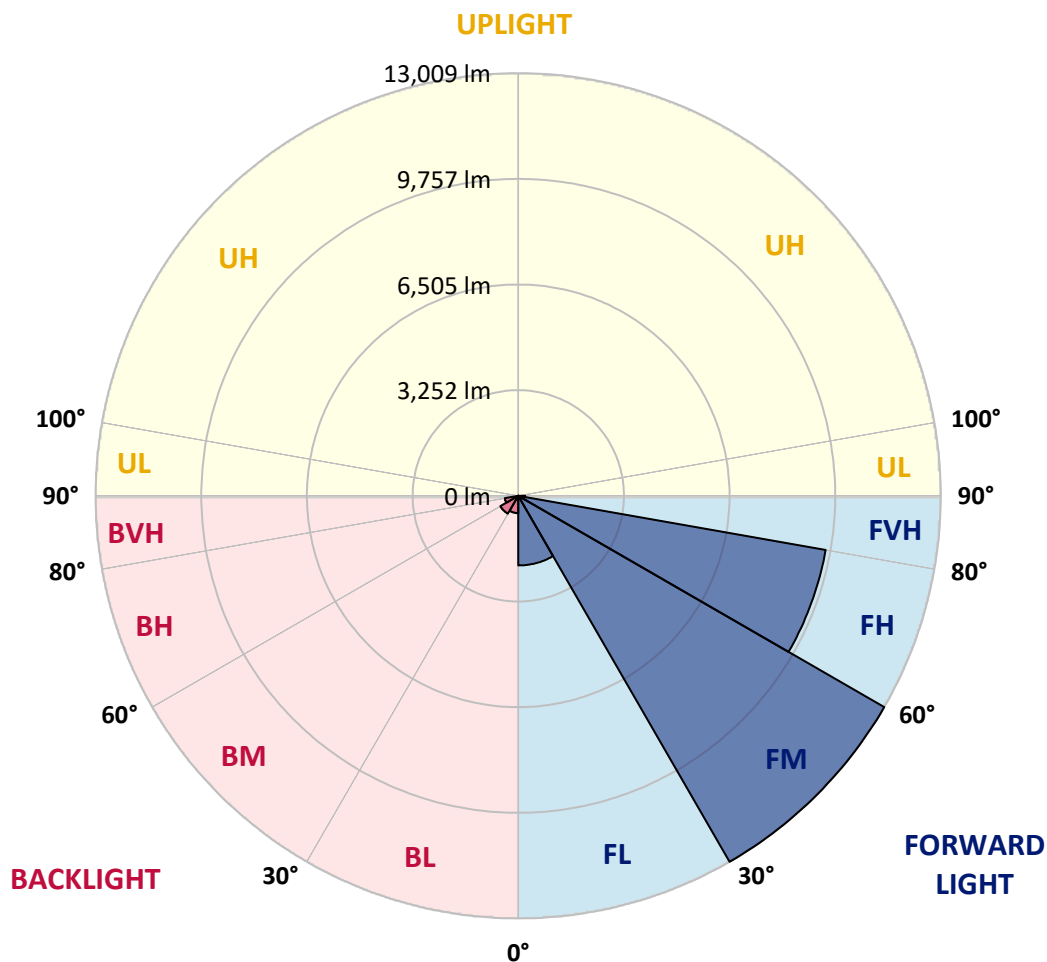
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2143.9	8.1			
FM (30°-60°)	13009.5	49.0			
FH (60°-80°)	9608.1	36.2			G4/12000
FVH (80°-90°)	213.8	0.8			G2/225
BL (0°-30°)	533.0	2.0	B2/1000		
BM (30°-60°)	635.4	2.4	B1/1000		
BH (60°-80°)	420.0	1.6	B1/500		G1/500
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6
2.5°	3558.7	3543.6	3537.3	3509.5	3461.5	3424.9	3354.3	3272.2	3257.1	3177.6	3080.4
5°	4020.6	4008.0	3999.1	3960.0	3910.8	3818.7	3689.9	3537.3	3508.2	3356.8	3162.5
7.5°	4342.4	4365.1	4365.1	4339.9	4278.0	4208.6	4050.9	3842.6	3806.0	3573.8	3272.2
10°	4530.4	4558.2	4579.6	4601.1	4592.2	4564.5	4415.6	4180.8	4136.7	3828.8	3399.7
12.5°	4548.1	4575.8	4636.4	4726.0	4813.1	4876.2	4782.8	4555.6	4505.2	4124.1	3551.1
15°	4449.6	4478.7	4572.1	4746.2	4956.9	5141.2	5171.5	4970.8	4919.1	4476.1	3740.4
17.5°	4278.0	4296.9	4430.7	4671.7	5002.4	5340.6	5523.6	5416.3	5368.3	4878.7	3951.2
20°	4150.6	4164.4	4281.8	4540.5	4974.6	5465.5	5856.7	5889.5	5839.1	5310.3	4179.6
22.5°	4368.9	4394.1	4397.9	4520.3	4898.9	5527.4	6149.5	6355.2	6317.3	5768.4	4404.2
25°	4965.8	4994.8	4898.9	4823.2	4963.3	5555.1	6400.6	6832.2	6801.9	6261.8	4630.1
27.5°	5754.5	5784.8	5661.1	5435.2	5300.2	5659.9	6624.0	7316.8	7315.5	6784.3	4873.7
30°	6529.3	6559.6	6433.4	6207.5	5897.1	5956.4	6817.1	7824.1	7831.7	7323.1	5132.4
32.5°	7342.0	7379.9	7249.9	6959.7	6635.3	6468.8	7088.4	8333.9	8376.8	7947.8	5423.9
35°	8265.8	8270.8	8087.9	7783.7	7410.2	7154.0	7523.8	8905.6	9007.8	8721.4	5793.6
37.5°	9171.9	9208.5	9058.3	8578.8	8235.5	7945.3	8171.1	9619.9	9765.0	9666.6	6277.0
40°	9843.2	9920.2	9898.8	9381.4	9055.8	8848.8	8975.0	10469.2	10653.4	10767.0	6886.5
42.5°	10264.7	10322.8	10421.2	10109.5	9814.2	9848.3	9924.0	11458.5	11685.7	12021.4	7586.9
45°	10748.0	10775.8	10857.8	10720.3	10520.9	10864.1	10931.0	12572.8	12811.3	13370.4	8364.2
47.5°	11338.6	11404.3	11427.0	11300.8	11209.9	11762.7	11901.5	13586.2	13920.6	14815.3	9187.0
50°	12090.8	12108.4	12147.6	12065.5	11974.7	12535.0	12772.2	14650.0	14954.1	16265.3	9998.4
52.5°	12826.5	12889.6	13025.9	12974.1	12937.5	13192.4	13548.3	15609.1	15948.6	17474.3	10808.6
55°	13038.5	13092.8	13563.5	13885.3	14183.1	14002.6	14290.3	16468.5	16835.7	18554.5	11588.5
57.5°	12191.7	12301.5	13116.7	13954.7	15190.1	15262.1	15310.0	17350.6	17680.0	19382.3	12399.9
60°	10051.4	10072.9	11410.6	12847.9	15023.5	16361.2	16799.1	18298.3	18574.7	20153.4	13371.6
62.5°	6393.0	6611.4	8079.0	10108.2	13261.9	16202.2	18599.9	19731.9	19832.8	21078.4	14764.8
65°	3045.1	3186.4	4243.9	6245.4	9606.0	14166.7	19842.9	22325.2	22370.6	22912.0	16626.2
67.5°	1686.0	1754.1	2257.6	3361.8	5615.7	10018.6	19340.7	25396.8	25439.7	24784.7	18259.2
69°	1318.7	1376.8	1773.0	2534.0	3807.3	7200.7	17502.0	26296.6	26424.0	25321.1	18317.2
70°	1119.4	1176.1	1527.0	2140.3	3061.5	5563.9	15578.8	26073.2	26208.2	25270.6	17884.4
72.5°	685.2	718.1	1017.1	1506.8	2051.9	2799.0	9607.2	22050.1	22278.5	23180.8	15370.6
75°	461.9	479.5	636.0	1039.8	1467.7	1441.1	4991.0	15542.2	16036.9	18032.0	11352.5
77.5°	330.6	347.0	426.5	672.6	1028.5	951.5	2260.2	9659.0	9765.0	10814.9	6191.1
80°	188.0	203.2	301.6	400.0	697.9	634.8	898.5	4613.7	4666.7	4637.7	2067.1
82.5°	98.4	111.1	165.3	263.7	448.0	415.2	373.5	1544.6	1552.2	1291.0	453.0
85°	18.9	22.7	82.0	180.5	230.9	180.5	152.7	362.2	369.8	326.8	112.3
87.5°	0.0	1.3	32.8	40.4	45.4	46.7	49.2	70.7	75.7	102.2	30.3
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°	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6	3023.6
2.5°	3037.5	2992.1	2905.0	2804.1	2725.8	2648.8	2588.3	2525.2	2502.5	2491.1	2489.8
5°	3067.8	2971.9	2787.7	2598.4	2443.1	2296.8	2192.0	2092.3	2045.6	2024.2	2015.3
7.5°	3118.3	2964.3	2667.8	2378.8	2155.4	1972.4	1827.3	1718.8	1664.5	1641.8	1633.0
10°	3177.6	2954.2	2527.7	2146.6	1861.4	1672.1	1528.2	1421.0	1361.6	1336.4	1323.8
12.5°	3247.0	2936.6	2366.2	1911.9	1610.3	1421.0	1246.8	1114.3	1046.2	1017.1	1003.3
15°	3332.8	2918.9	2197.1	1691.0	1389.4	1158.5	967.9	878.3	864.4	859.4	860.7
17.5°	3417.4	2891.1	2012.8	1472.7	1157.2	904.8	807.6	802.6	805.1	805.1	805.1
20°	3493.1	2828.0	1812.2	1285.9	936.4	763.5	743.3	734.5	728.1	723.1	716.8
22.5°	3552.4	2743.5	1619.1	1100.4	764.7	699.1	667.6	639.8	617.1	602.0	594.4
25°	3592.8	2631.2	1442.4	922.5	687.8	636.0	579.2	532.5	497.2	475.8	466.9
27.5°	3623.1	2510.0	1284.7	772.3	634.8	562.8	488.4	432.8	396.3	377.3	369.8
30°	3644.5	2372.5	1145.9	678.9	575.5	485.9	406.3	352.1	325.6	315.5	310.4
32.5°	3664.7	2219.8	1014.6	634.8	519.9	415.2	340.7	299.1	282.7	270.1	266.3
35°	3715.2	2078.4	889.7	588.1	463.1	354.6	292.8	262.5	246.1	238.5	236.0
37.5°	3835.1	1973.7	769.8	540.1	406.3	306.7	256.2	234.7	219.6	212.0	209.5
40°	4028.2	1920.7	668.8	488.4	350.8	270.1	232.2	212.0	195.6	184.2	181.7
42.5°	4312.1	1928.3	598.2	436.6	306.7	241.0	209.5	185.5	167.8	157.7	155.2
45°	4656.6	1983.8	548.9	386.2	270.1	218.3	184.2	159.0	142.6	133.8	131.2
47.5°	5030.1	2073.4	508.6	340.7	241.0	196.9	159.0	132.5	118.6	111.1	109.8
50°	5423.9	2160.5	466.9	296.6	215.8	175.4	133.8	109.8	98.4	92.1	89.6
52.5°	5822.6	2261.4	429.1	256.2	194.3	150.2	111.1	89.6	80.8	75.7	73.2
55°	6251.7	2337.1	392.5	224.6	172.9	127.5	92.1	74.5	66.9	60.6	59.3
57.5°	6756.5	2454.5	354.6	194.3	147.6	106.0	75.7	59.3	53.0	46.7	45.4
60°	7437.9	2592.0	314.2	171.6	121.1	87.1	61.8	48.0	40.4	35.3	34.1
62.5°	8336.5	2744.7	263.7	150.2	98.4	70.7	49.2	37.9	29.0	22.7	22.7
65°	9476.0	2993.4	215.8	126.2	80.8	58.0	37.9	27.8	16.4	10.1	10.1
67.5°	10141.0	3036.3	174.1	103.5	65.6	49.2	31.5	18.9	5.0	1.3	0.0
69°	9927.8	2787.7	147.6	88.3	56.8	46.7	29.0	13.9	2.5	0.0	0.0
70°	9526.5	2549.1	130.0	78.2	51.7	44.2	27.8	10.1	2.5	0.0	0.0
72.5°	7872.1	1814.7	98.4	58.0	37.9	39.1	25.2	6.3	2.5	0.0	0.0
75°	5734.3	1102.9	70.7	40.4	24.0	29.0	17.7	2.5	1.3	0.0	0.0
77.5°	3190.2	519.9	44.2	22.7	15.1	17.7	8.8	0.0	0.0	0.0	0.0
80°	1036.1	141.3	20.2	12.6	8.8	10.1	3.8	0.0	0.0	0.0	0.0
82.5°	191.8	40.4	11.4	6.3	2.5	2.5	0.0	0.0	0.0	0.0	0.0
85°	41.6	16.4	6.3	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.9	5.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)