

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: P318733

Luminaire Tested: **GAN-SA9C-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9C-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63613 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

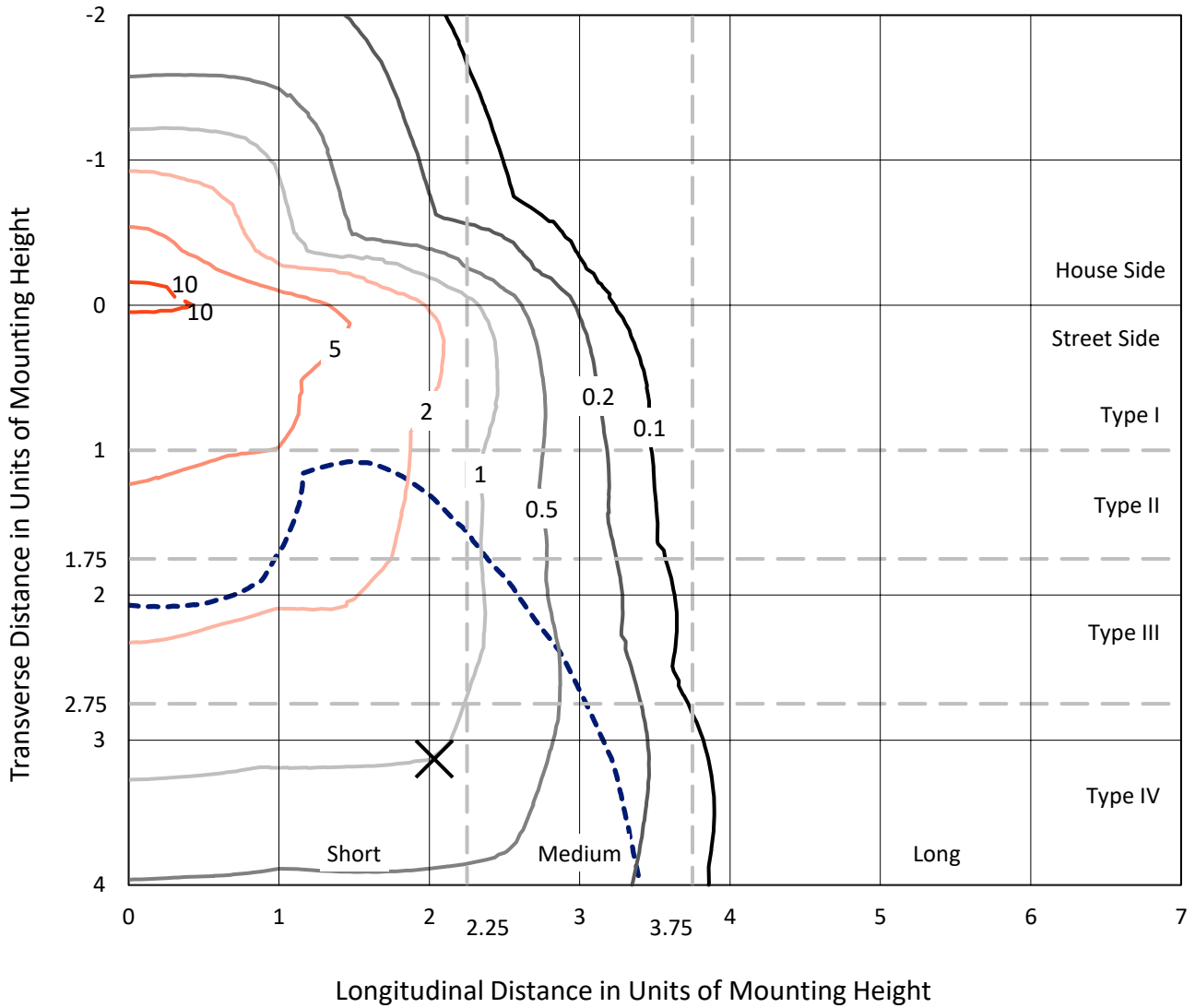
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

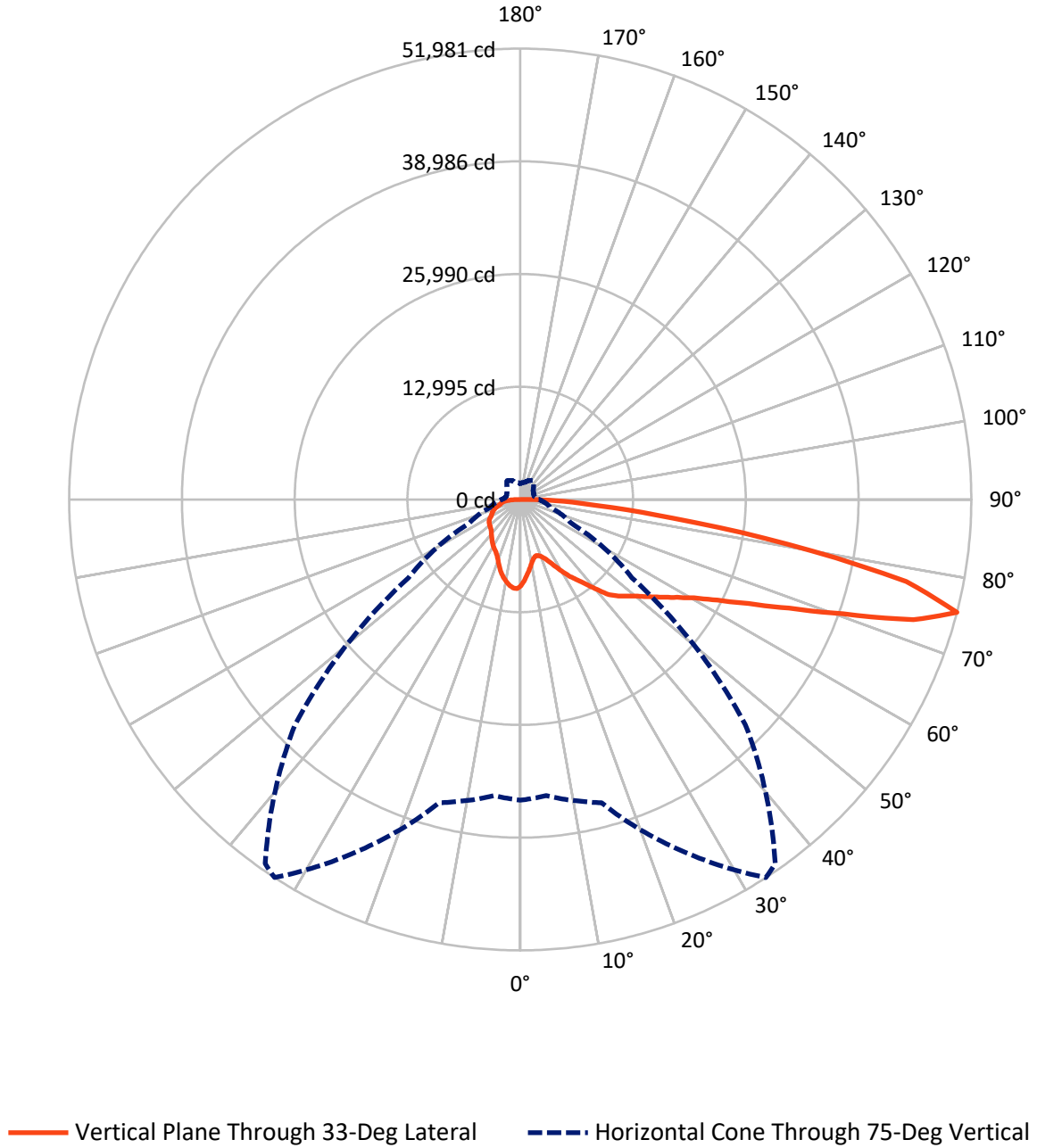
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 11 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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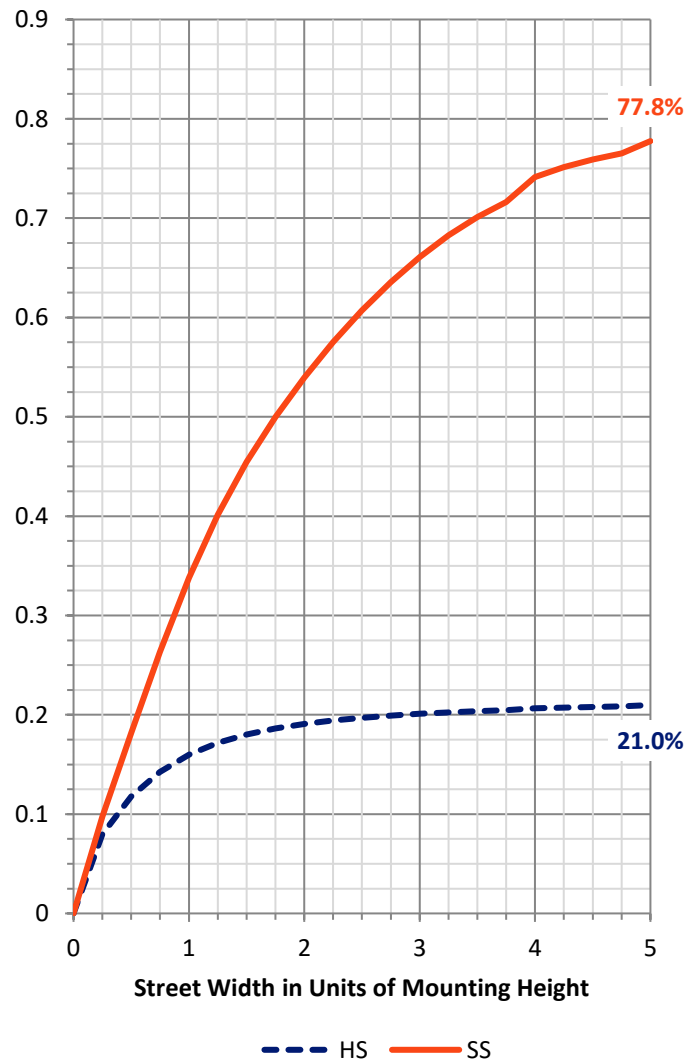
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13659.4	0.0	13659.4
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	49953.6	0.0	49953.6
	% Fixture	78.5	0.0	78.5
Total	Lumens	63613.0	0.0	63613.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	899.2	1.4
10°-20°	2435.5	3.8
20°-30°	3977.5	6.3
30°-40°	5923.4	9.3
40°-50°	8495.8	13.4
50°-60°	11663.4	18.3
60°-70°	14602.1	23.0
70°-80°	13209.8	20.8
80°-90°	2406.2	3.8
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°	63613.0	100.0
0°-180°	63613.0	100.0



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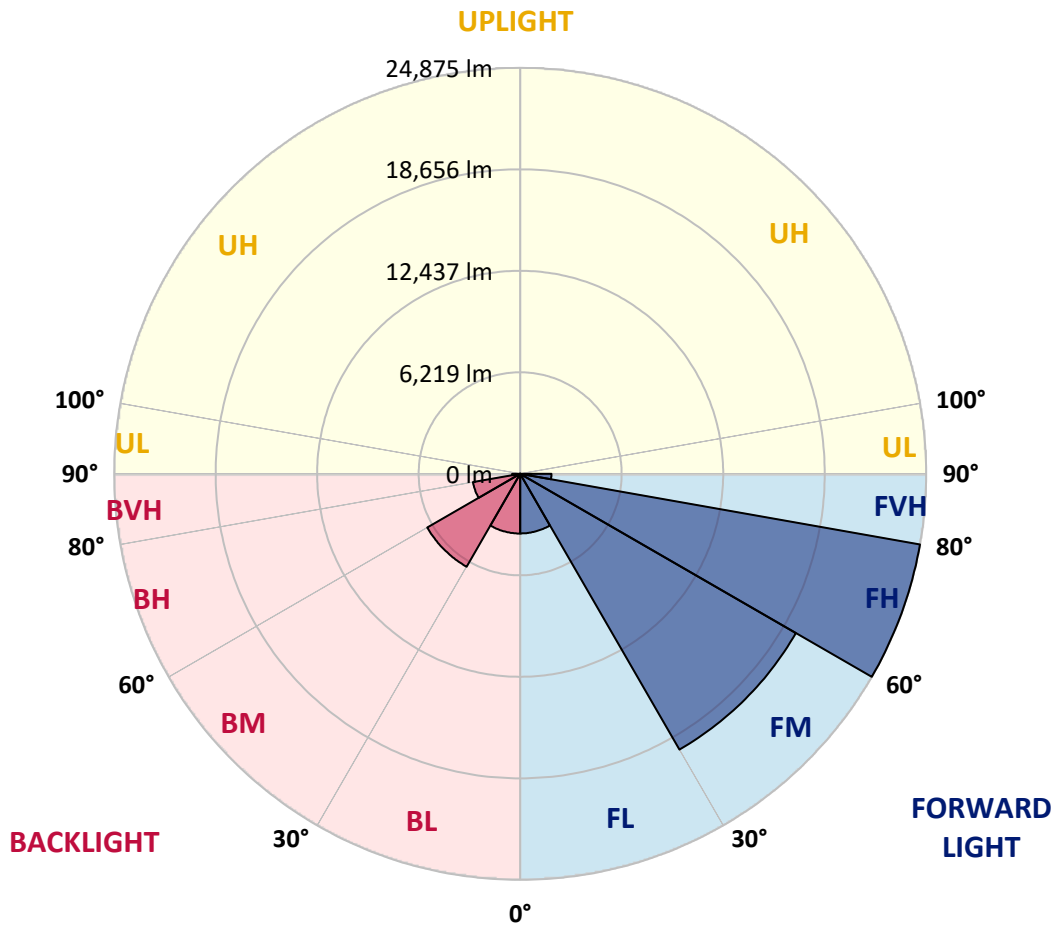
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3653.6	5.7			
FM (30°-60°)	19508.8	30.7			
FH (60°-80°)	24874.9	39.1			G5
FVH (80°-90°)	1916.4	3.0			G5
BL (0°-30°)	3658.6	5.8	B4/5000		
BM (30°-60°)	6573.9	10.3	B4/8500		
BH (60°-80°)	2937.0	4.6	B4/5000		G4/5000
BVH (80°-90°)	489.9	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1
2.5°	9233.3	9198.2	9264.1	9272.9	9330.0	9352.0	9431.1	9554.1	9655.2	9771.7	9877.1
5°	8396.1	8372.0	8464.2	8530.2	8655.4	8708.2	8894.9	9156.4	9389.3	9653.0	9892.5
7.5°	7600.7	7587.5	7690.8	7840.2	7985.2	8057.7	8380.7	8760.9	9149.8	9576.1	9943.1
10°	6930.5	6926.1	7025.0	7172.2	7385.3	7466.6	7884.1	8385.1	8930.1	9516.8	10028.8
12.5°	6554.7	6570.1	6616.3	6739.3	6937.1	7018.4	7482.0	8070.9	8745.5	9497.0	10154.0
15°	6647.0	6671.2	6592.1	6587.7	6728.3	6792.0	7227.1	7846.8	8613.7	9530.0	10336.4
17.5°	7040.4	7044.7	6836.0	6704.2	6789.9	6822.8	7148.0	7719.3	8536.8	9604.7	10564.9
20°	7594.1	7583.1	7213.9	6994.2	7040.4	7049.1	7260.1	7721.5	8530.2	9734.3	10861.6
22.5°	8328.0	8246.7	7750.1	7451.3	7440.3	7427.1	7547.9	7884.1	8626.8	9945.3	11215.3
25°	9286.1	9209.1	8525.8	8117.1	8029.2	7996.2	8013.8	8231.3	8818.0	10171.6	11610.9
27.5°	10351.8	10217.7	9558.5	8980.6	8798.2	8752.1	8646.6	8721.3	9026.8	10389.1	12081.1
30°	11243.9	11171.4	10595.7	9910.1	9694.8	9628.8	9352.0	9270.7	9327.8	10685.8	12674.4
32.5°	11742.7	11694.4	11345.0	10791.3	10591.3	10499.0	10107.9	9945.3	9811.2	11153.8	13478.6
35°	12347.0	12316.2	12105.3	11703.2	11406.5	11309.8	11006.6	10837.4	10492.4	11797.6	14518.0
37.5°	13116.1	13083.1	13087.5	12762.3	12408.5	12318.4	12118.5	11940.5	11375.7	12643.6	15647.4
40°	13986.2	13922.5	13898.3	13882.9	13658.8	13608.3	13502.8	13261.1	12483.2	13654.4	16761.5
42.5°	15295.8	15069.5	14586.1	14768.5	14990.4	14964.0	15049.7	14702.6	13713.7	14849.8	17849.2
45°	16559.3	16188.0	15353.0	15392.5	15878.1	16025.4	16667.0	16420.9	15047.5	16159.4	18974.2
47.5°	17135.0	16853.8	16144.0	16146.2	16627.4	16932.9	18339.2	18163.4	16449.5	17647.0	20347.6
50°	17778.9	17497.6	16860.4	17099.9	17519.6	17844.8	19954.3	19864.2	17783.3	19275.3	21993.4
52.5°	18482.0	18005.2	17600.9	18029.4	18618.3	18996.2	21571.5	21325.4	19007.2	20914.5	23885.3
55°	18490.8	18361.2	18668.8	18983.0	19864.2	20327.8	23265.7	22615.3	20004.8	22525.2	25425.7
57.5°	19543.3	19332.4	19985.0	20130.0	21281.5	21804.4	24951.1	23738.1	21020.0	23760.1	26256.3
60°	20936.5	20756.3	21290.3	21672.6	23035.0	23733.7	26750.7	24891.7	21817.6	24691.8	26216.7
62.5°	23342.6	23138.2	23131.6	23667.8	25502.6	26315.6	28770.1	26023.4	22134.0	24876.3	25098.3
65°	26865.0	26539.8	25926.7	26181.6	28910.7	29721.5	31026.8	26843.0	21716.5	23887.5	22217.5
67.5°	30292.8	30281.9	29528.2	30051.1	33410.9	34061.3	33597.7	26924.3	20413.5	20444.3	17106.5
70°	33709.7	33753.7	33626.2	35445.7	39491.0	40167.8	36335.6	25832.2	17484.4	14764.1	10248.5
72.5°	36416.9	36405.9	37047.5	41738.9	47381.7	47230.1	38642.8	22523.0	12553.5	7969.8	4897.9
75°	34663.4	34281.1	36192.8	44854.8	51980.8	51240.3	36680.6	15711.1	6515.2	3627.8	2636.8
77.5°	22608.7	22971.2	25777.3	37054.1	45467.8	44566.9	26911.1	7330.4	3069.7	2379.7	1911.7
80°	8187.4	8569.7	12070.1	20989.2	31325.6	31178.4	13252.3	3012.6	2076.5	1797.4	1393.1
82.5°	2817.0	2957.7	4761.7	9321.2	17686.6	18345.8	4985.8	1711.7	1509.6	1274.5	953.7
85°	1105.3	1265.7	2177.6	4484.8	8921.3	8987.2	2019.4	1024.0	1050.3	835.0	523.0
87.5°	419.7	509.8	1041.6	2083.1	4073.9	3742.1	722.9	487.8	597.7	496.6	248.3
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°	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1	9943.1
2.5°	9958.5	10004.6	10101.3	10167.2	10237.5	10257.3	10266.1	10283.7	10301.2	10294.6	10296.8
5°	10020.0	10110.1	10266.1	10332.0	10362.8	10327.6	10259.5	10204.6	10165.0	10143.0	10136.4
7.5°	10121.1	10248.5	10415.5	10404.5	10334.2	10178.2	10002.4	9870.6	9760.7	9721.1	9699.2
10°	10255.1	10404.5	10521.0	10395.7	10191.4	9921.1	9657.4	9453.1	9288.3	9224.5	9213.5
12.5°	10426.5	10578.1	10600.1	10334.2	9995.8	9626.6	9268.5	8998.2	8752.1	8673.0	8655.4
15°	10648.4	10791.3	10655.0	10226.5	9754.1	9257.5	8793.8	8426.9	8167.6	8070.9	8035.8
17.5°	10881.3	11017.6	10666.0	10048.5	9437.7	8820.2	8237.9	7862.2	7565.5	7453.5	7440.3
20°	11160.4	11221.9	10619.9	9793.6	9002.6	8253.3	7640.2	7286.5	7128.2	7049.1	7040.4
22.5°	11505.4	11439.5	10514.4	9448.7	8451.1	7598.5	7099.7	6934.9	6895.3	6877.7	6884.3
25°	11870.2	11668.0	10358.4	8998.2	7754.5	6943.7	6704.2	6750.3	6803.0	6796.4	6796.4
27.5°	12272.3	11900.9	10118.9	8400.5	6983.2	6407.5	6436.1	6605.3	6684.4	6682.2	6680.0
30°	12788.7	12164.6	9813.4	7682.0	6262.5	6029.6	6203.2	6409.7	6517.4	6513.0	6515.2
32.5°	13423.7	12454.7	9398.1	6879.9	5741.7	5750.5	5950.5	6154.8	6280.1	6269.1	6271.3
35°	14166.4	12779.9	8835.6	6088.9	5396.7	5528.6	5686.8	5829.6	5948.3	5932.9	5917.5
37.5°	14975.0	13098.5	8088.5	5381.3	5115.5	5322.0	5453.9	5478.0	5533.0	5493.4	5464.8
40°	15744.1	13342.4	7126.0	4801.2	4832.0	5146.2	5231.9	5135.2	5036.4	5023.2	4983.6
42.5°	16414.3	13423.7	6152.6	4337.6	4533.2	4961.6	5014.4	4812.2	4634.2	4550.7	4515.6
45°	17121.9	13452.3	5245.1	3948.7	4245.3	4796.8	4854.0	4583.7	4333.2	4153.0	4093.7
47.5°	18046.9	13658.8	4539.8	3660.8	4025.6	4687.0	4768.3	4401.3	4076.1	3819.0	3764.1
50°	19257.7	14067.5	3966.2	3441.1	3882.7	4614.5	4706.8	4223.3	3865.2	3555.3	3500.4
52.5°	20602.5	14443.3	3502.6	3263.1	3744.3	4487.0	4627.6	4095.9	3667.4	3311.4	3252.1
55°	21542.9	14155.4	3129.0	3078.5	3564.1	4304.6	4517.8	3988.2	3383.9	3074.1	3021.4
57.5°	21723.1	13171.0	2845.6	2887.3	3346.6	4076.1	4348.6	3748.7	3230.1	2970.8	2915.9
60°	21230.9	11799.8	2634.6	2711.5	3113.7	3788.3	4032.2	3579.5	3082.9	2861.0	2814.8
62.5°	19993.8	10395.7	2478.6	2553.3	2896.1	3496.0	3834.4	3401.5	2933.5	2735.7	2689.6
65°	17495.4	8727.9	2329.2	2412.7	2694.0	3243.3	3656.4	3236.7	2786.3	2634.6	2590.7
67.5°	13206.2	6537.2	2188.6	2263.3	2513.8	3023.6	3463.0	3074.1	2643.4	2546.7	2494.0
70°	7776.5	4093.7	2028.2	2107.3	2324.8	2795.0	3256.5	2896.1	2465.4	2421.5	2353.4
72.5°	3619.1	2463.2	1845.8	1922.7	2087.5	2489.6	2990.6	2663.2	2254.5	2157.8	2065.5
75°	2160.0	1801.8	1630.4	1698.6	1815.0	2164.4	2656.6	2425.9	2054.5	1927.1	1830.4
77.5°	1615.1	1377.7	1393.1	1465.6	1560.1	1894.1	2353.4	2239.1	1900.7	1801.8	1735.9
80°	1162.4	1045.9	1136.0	1215.1	1314.0	1722.7	2254.5	2069.9	1718.3	1586.5	1525.0
82.5°	775.7	751.5	854.8	936.1	1032.8	1507.4	2118.3	1812.8	1467.8	1300.8	1164.6
85°	428.5	452.7	575.7	610.9	694.4	1061.3	1735.9	1456.9	1105.3	889.9	850.4
87.5°	178.0	208.7	309.8	298.8	369.2	632.8	1142.6	878.9	703.2	525.2	408.7
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)