

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: P321914

Luminaire Tested: **GAN-SA0A-740-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321914
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-SA0A-740-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 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: 32814 lumens
Efficiency: N/A
Efficacy: 101.6 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

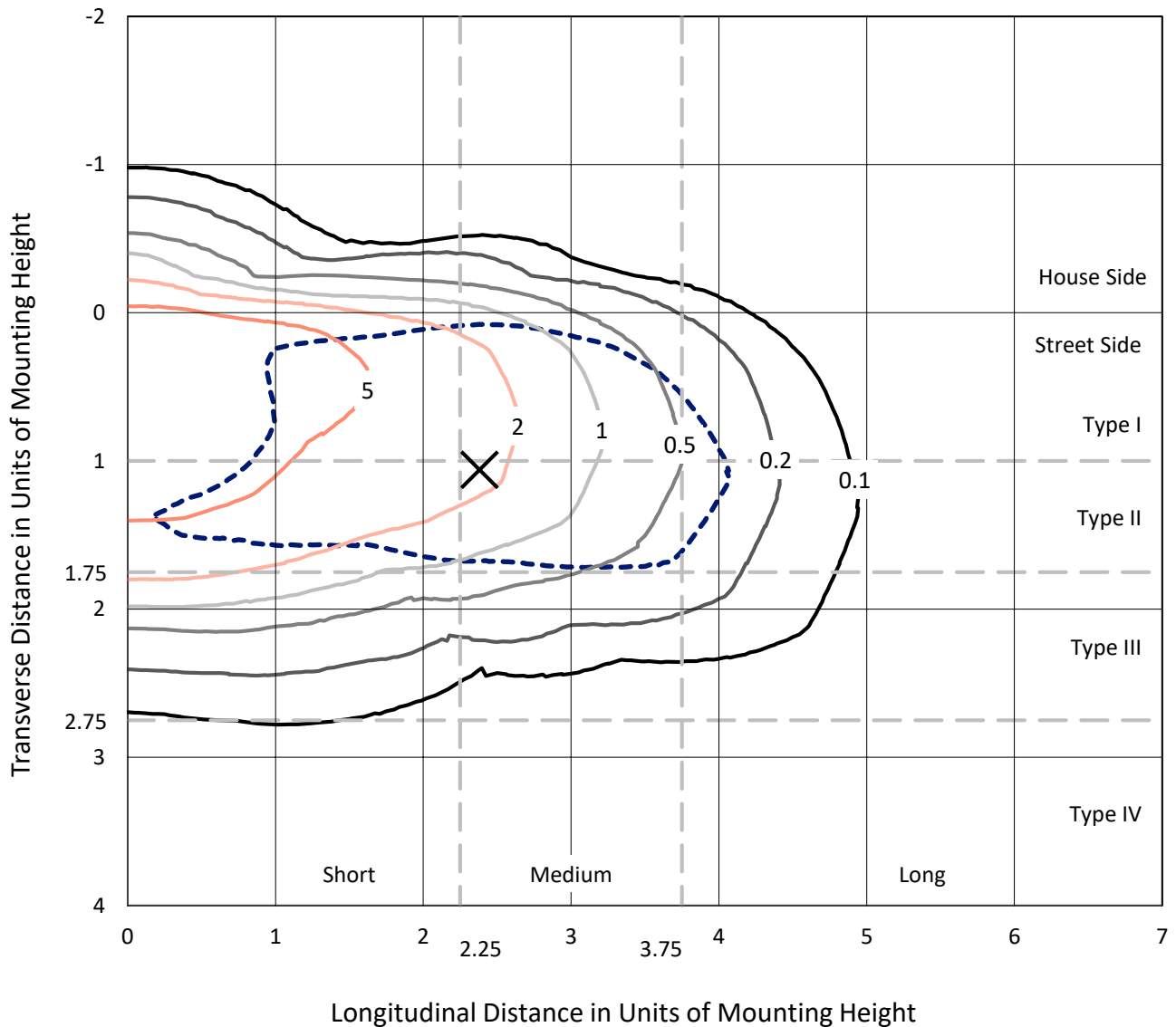
Input Watts (W): 323
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

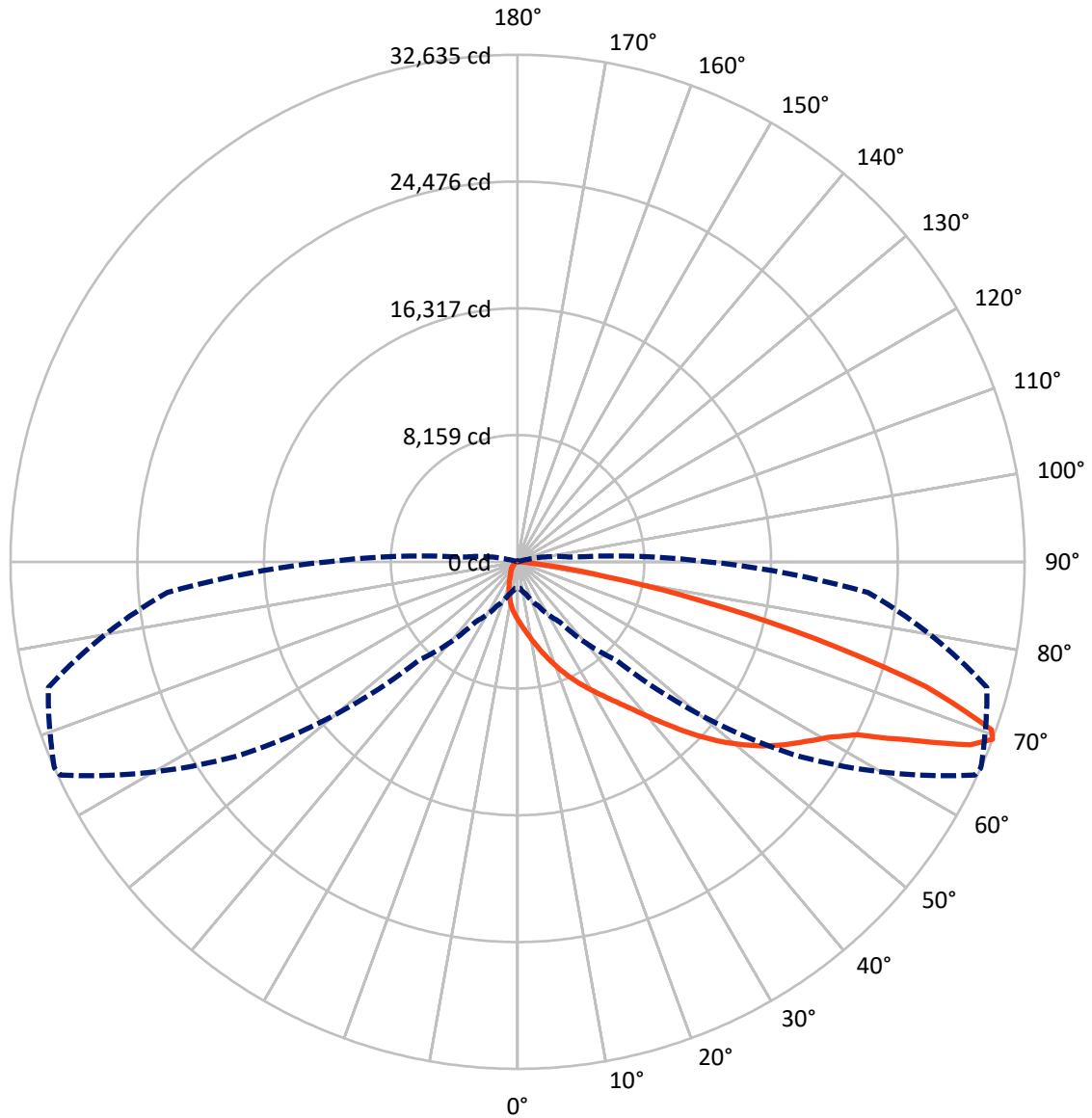
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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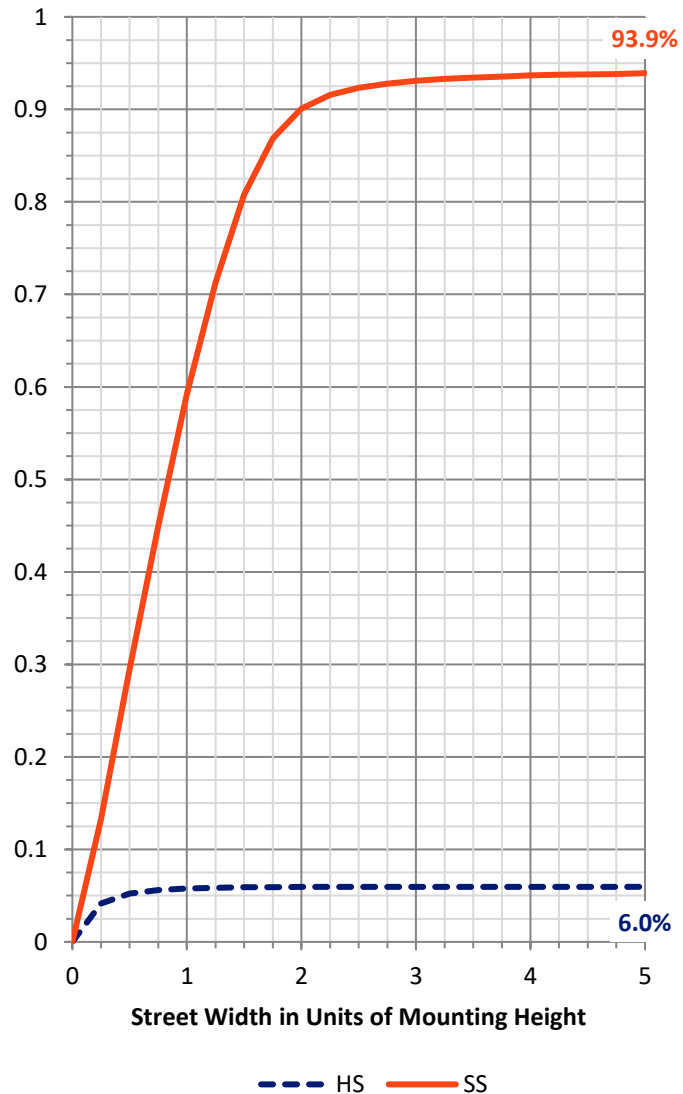
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1968.4	0.0	1968.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	30845.6	0.0	30845.6
	% Fixture	94.0	0.0	94.0
Total	Lumens	32814.0	0.0	32814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.0	1.1
10°-20°	1074.3	3.3
20°-30°	1870.8	5.7
30°-40°	3282.3	10.0
40°-50°	5494.1	16.7
50°-60°	8075.8	24.6
60°-70°	8291.8	25.3
70°-80°	4093.4	12.5
80°-90°	270.7	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°	32814.0	100.0
0°-180°	32814.0	100.0

Coefficient of Utilization



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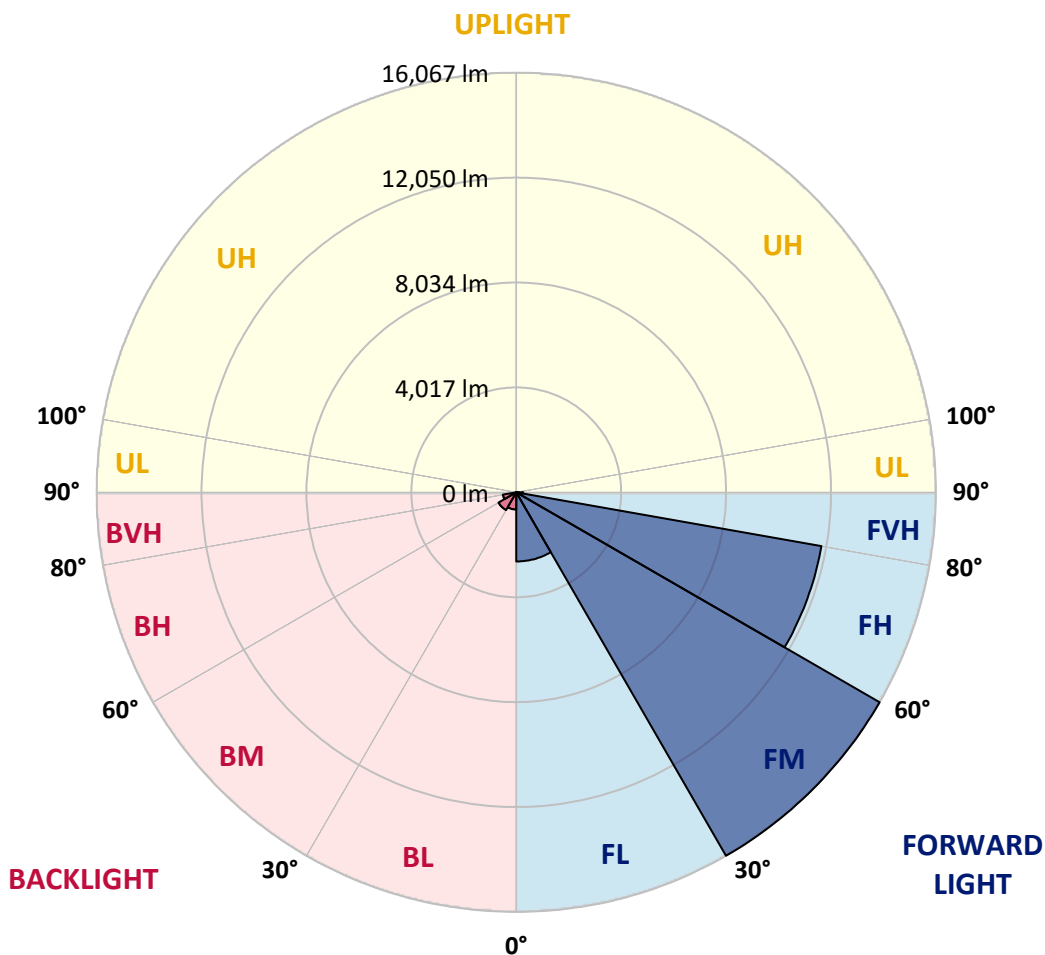
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2647.8	8.1			
FM (30°-60°)	16067.3	49.0			
FH (60°-80°)	11866.4	36.2			G4/12000
FVH (80°-90°)	264.1	0.8			G3/500
BL (0°-30°)	658.3	2.0	B2/1000		
BM (30°-60°)	784.8	2.4	B1/1000		
BH (60°-80°)	518.7	1.6	B2/1000		G2/1000
BVH (80°-90°)	6.5	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°	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3
2.5°	4395.2	4376.5	4368.7	4334.4	4275.2	4230.0	4142.7	4041.4	4022.7	3924.5	3804.5
5°	4965.6	4950.0	4939.1	4890.8	4830.0	4716.2	4557.3	4368.7	4332.8	4145.8	3905.8
7.5°	5363.0	5391.1	5391.1	5359.9	5283.6	5197.8	5003.0	4745.9	4700.7	4413.9	4041.4
10°	5595.3	5629.6	5656.1	5682.6	5671.6	5637.4	5453.4	5163.5	5109.0	4728.7	4198.8
12.5°	5617.1	5651.4	5726.2	5836.9	5944.4	6022.3	5907.0	5626.4	5564.1	5093.4	4385.8
15°	5495.5	5531.4	5646.7	5861.8	6122.1	6349.6	6387.0	6139.2	6075.3	5528.3	4619.6
17.5°	5283.6	5306.9	5472.1	5769.8	6178.2	6595.9	6821.9	6689.4	6630.2	6025.4	4879.9
20°	5126.1	5143.3	5288.2	5607.7	6143.9	6750.2	7233.3	7273.9	7211.5	6558.5	5162.0
22.5°	5395.8	5426.9	5431.6	5582.8	6050.4	6826.5	7594.9	7849.0	7802.2	7124.2	5439.4
25°	6133.0	6168.8	6050.4	5956.9	6129.9	6860.8	7905.1	8438.1	8400.7	7733.6	5718.4
27.5°	7107.1	7144.5	6991.8	6712.8	6546.0	6990.2	8180.9	9036.6	9035.0	8378.9	6019.2
30°	8064.1	8101.5	7945.6	7666.6	7283.2	7356.5	8419.4	9663.1	9672.5	9044.4	6338.7
32.5°	9067.8	9114.5	8954.0	8595.5	8195.0	7989.2	8754.5	10292.8	10345.8	9815.9	6698.7
35°	10208.6	10214.9	9988.9	9613.3	9151.9	8835.5	9292.2	10998.8	11125.1	10771.3	7155.4
37.5°	11327.7	11372.9	11187.4	10595.2	10171.2	9812.8	10091.8	11881.0	12060.2	11938.7	7752.3
40°	12156.9	12251.9	12225.4	11586.4	11184.3	10928.7	11084.6	12929.9	13157.5	13297.7	8505.1
42.5°	12677.4	12749.1	12870.7	12485.7	12121.0	12163.1	12256.6	14151.8	14432.4	14847.0	9370.1
45°	13274.4	13308.6	13410.0	13240.1	12993.8	13417.7	13500.4	15528.1	15822.6	16513.1	10330.2
47.5°	14003.8	14084.8	14112.9	13957.0	13844.8	14527.4	14698.9	16779.6	17192.6	18297.6	11346.4
50°	14932.7	14954.5	15002.8	14901.5	14789.3	15481.3	15774.3	18093.5	18469.1	20088.4	12348.6
52.5°	15841.3	15919.3	16087.6	16023.7	15978.5	16293.3	16732.8	19278.0	19697.2	21581.5	13349.2
55°	16103.2	16170.2	16751.5	17149.0	17516.8	17293.9	17649.3	20339.4	20792.9	22915.7	14312.4
57.5°	15057.4	15193.0	16199.8	17234.7	18760.5	18849.4	18908.6	21428.8	21835.6	23938.1	15314.5
60°	12414.0	12440.5	14092.6	15867.8	18554.8	20206.9	20747.7	22599.3	22940.6	24890.4	16514.6
62.5°	7895.7	8165.4	9978.0	12484.2	16379.0	20010.5	22971.8	24369.8	24494.5	26032.8	18235.3
65°	3760.8	3935.4	5241.5	7713.4	11863.9	17496.5	24507.0	27572.7	27628.8	28297.4	20534.2
67.5°	2082.3	2166.4	2788.3	4152.0	6935.6	12373.5	23886.7	31366.3	31419.3	30610.4	22551.0
69°	1628.7	1700.4	2189.8	3129.6	4702.2	8893.2	21615.8	32477.5	32634.9	31272.7	22622.7
70°	1382.5	1452.6	1885.9	2643.3	3781.1	6871.7	19240.6	32201.7	32368.4	31210.4	22088.1
72.5°	846.3	886.8	1256.2	1860.9	2534.2	3456.9	11865.4	27232.9	27515.0	28629.4	18983.4
75°	570.4	592.3	785.5	1284.3	1812.6	1779.9	6164.2	19195.4	19806.3	22270.4	14020.9
77.5°	408.3	428.6	526.8	830.7	1270.2	1175.2	2791.4	11929.3	12060.2	13357.0	7646.4
80°	232.2	250.9	372.5	494.1	861.9	784.0	1109.7	5698.1	5763.6	5727.8	2552.9
82.5°	121.6	137.2	204.2	325.7	553.3	512.8	461.3	1907.7	1917.0	1594.4	559.5
85°	23.4	28.1	101.3	222.9	285.2	222.9	188.6	447.3	456.7	403.7	138.7
87.5°	0.0	1.6	40.5	49.9	56.1	57.7	60.8	87.3	93.5	126.2	37.4
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°	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3	3734.3
2.5°	3751.5	3695.4	3587.8	3463.1	3366.5	3271.4	3196.6	3118.7	3090.6	3076.6	3075.1
5°	3788.9	3670.4	3442.9	3209.1	3017.4	2836.6	2707.2	2584.1	2526.4	2499.9	2489.0
7.5°	3851.2	3661.1	3294.8	2937.9	2662.0	2436.0	2256.8	2122.8	2055.8	2027.7	2016.8
10°	3924.5	3648.6	3121.8	2651.1	2298.9	2065.1	1887.4	1755.0	1681.7	1650.5	1634.9
12.5°	4010.2	3626.8	2922.3	2361.2	1988.7	1755.0	1539.9	1376.2	1292.1	1256.2	1239.1
15°	4116.2	3605.0	2713.5	2088.5	1716.0	1430.8	1195.4	1084.8	1067.6	1061.4	1062.9
17.5°	4220.6	3570.7	2485.9	1818.9	1429.2	1117.5	997.5	991.3	994.4	994.4	994.4
20°	4314.1	3492.8	2238.1	1588.2	1156.5	942.9	918.0	907.1	899.3	893.1	885.3
22.5°	4387.4	3388.3	1999.6	1359.1	944.5	863.4	824.5	790.2	762.1	743.4	734.1
25°	4437.3	3249.6	1781.4	1139.3	849.4	785.5	715.4	657.7	614.1	587.6	576.7
27.5°	4474.7	3100.0	1586.6	953.8	784.0	695.1	603.2	534.6	489.4	466.0	456.7
30°	4501.2	2930.1	1415.2	838.5	710.7	600.1	501.9	434.8	402.1	389.6	383.4
32.5°	4526.1	2741.5	1253.1	784.0	642.1	512.8	420.8	369.4	349.1	333.5	328.9
35°	4588.4	2567.0	1098.8	726.3	572.0	438.0	361.6	324.2	303.9	294.6	291.5
37.5°	4736.5	2437.6	950.7	667.1	501.9	378.7	316.4	289.9	271.2	261.8	258.7
40°	4975.0	2372.1	826.0	603.2	433.3	333.5	286.8	261.8	241.6	227.6	224.4
42.5°	5325.6	2381.5	738.8	539.3	378.7	297.7	258.7	229.1	207.3	194.8	191.7
45°	5751.1	2450.1	678.0	476.9	333.5	269.6	227.6	196.4	176.1	165.2	162.1
47.5°	6212.5	2560.7	628.1	420.8	297.7	243.1	196.4	163.7	146.5	137.2	135.6
50°	6698.7	2668.3	576.7	366.3	266.5	216.6	165.2	135.6	121.6	113.8	110.7
52.5°	7191.3	2793.0	529.9	316.4	240.0	185.5	137.2	110.7	99.7	93.5	90.4
55°	7721.2	2886.5	484.7	277.4	213.5	157.4	113.8	92.0	82.6	74.8	73.3
57.5°	8344.6	3031.4	438.0	240.0	182.4	130.9	93.5	73.3	65.5	57.7	56.1
60°	9186.2	3201.3	388.1	212.0	149.6	107.5	76.4	59.2	49.9	43.6	42.1
62.5°	10295.9	3389.9	325.7	185.5	121.6	87.3	60.8	46.8	35.8	28.1	28.1
65°	11703.3	3696.9	266.5	155.9	99.7	71.7	46.8	34.3	20.3	12.5	12.5
67.5°	12524.7	3749.9	215.1	127.8	81.0	60.8	39.0	23.4	6.2	1.6	0.0
69°	12261.3	3442.9	182.4	109.1	70.1	57.7	35.8	17.1	3.1	0.0	0.0
70°	11765.7	3148.3	160.5	96.6	63.9	54.6	34.3	12.5	3.1	0.0	0.0
72.5°	9722.4	2241.2	121.6	71.7	46.8	48.3	31.2	7.8	3.1	0.0	0.0
75°	7082.2	1362.2	87.3	49.9	29.6	35.8	21.8	3.1	1.6	0.0	0.0
77.5°	3940.1	642.1	54.6	28.1	18.7	21.8	10.9	0.0	0.0	0.0	0.0
80°	1279.6	174.6	24.9	15.6	10.9	12.5	4.7	0.0	0.0	0.0	0.0
82.5°	236.9	49.9	14.0	7.8	3.1	3.1	0.0	0.0	0.0	0.0	0.0
85°	51.4	20.3	7.8	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	6.2	1.6	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)