

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: P320974

Luminaire Tested: **GAN-SA0C-740-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320974
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-SA0C-740-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 71824 lumens
Efficiency: N/A
Efficacy: 128.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

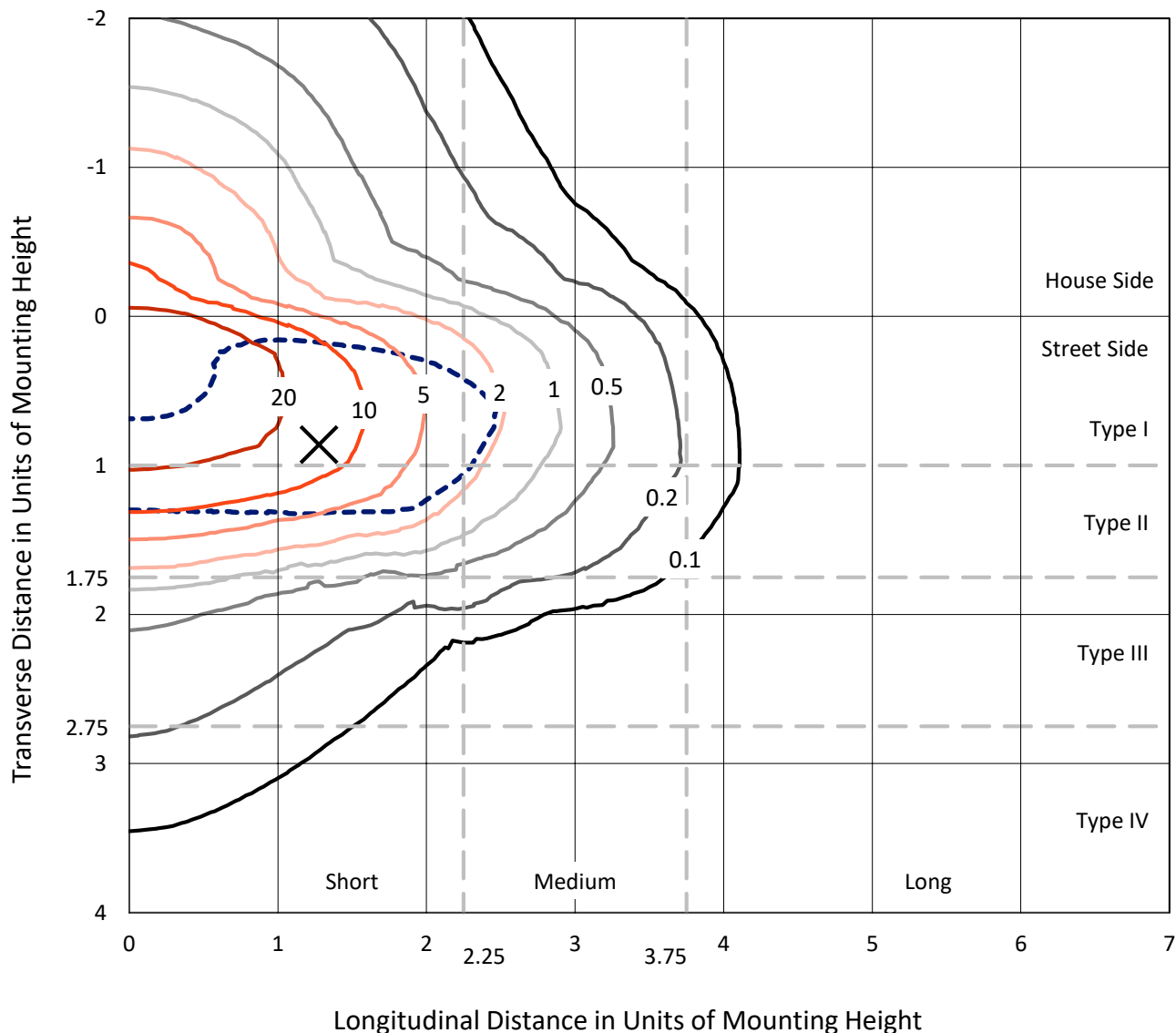
Input Watts (W): 558
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P320974
 CATALOG NUMBER: GAN-SA0C-740-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

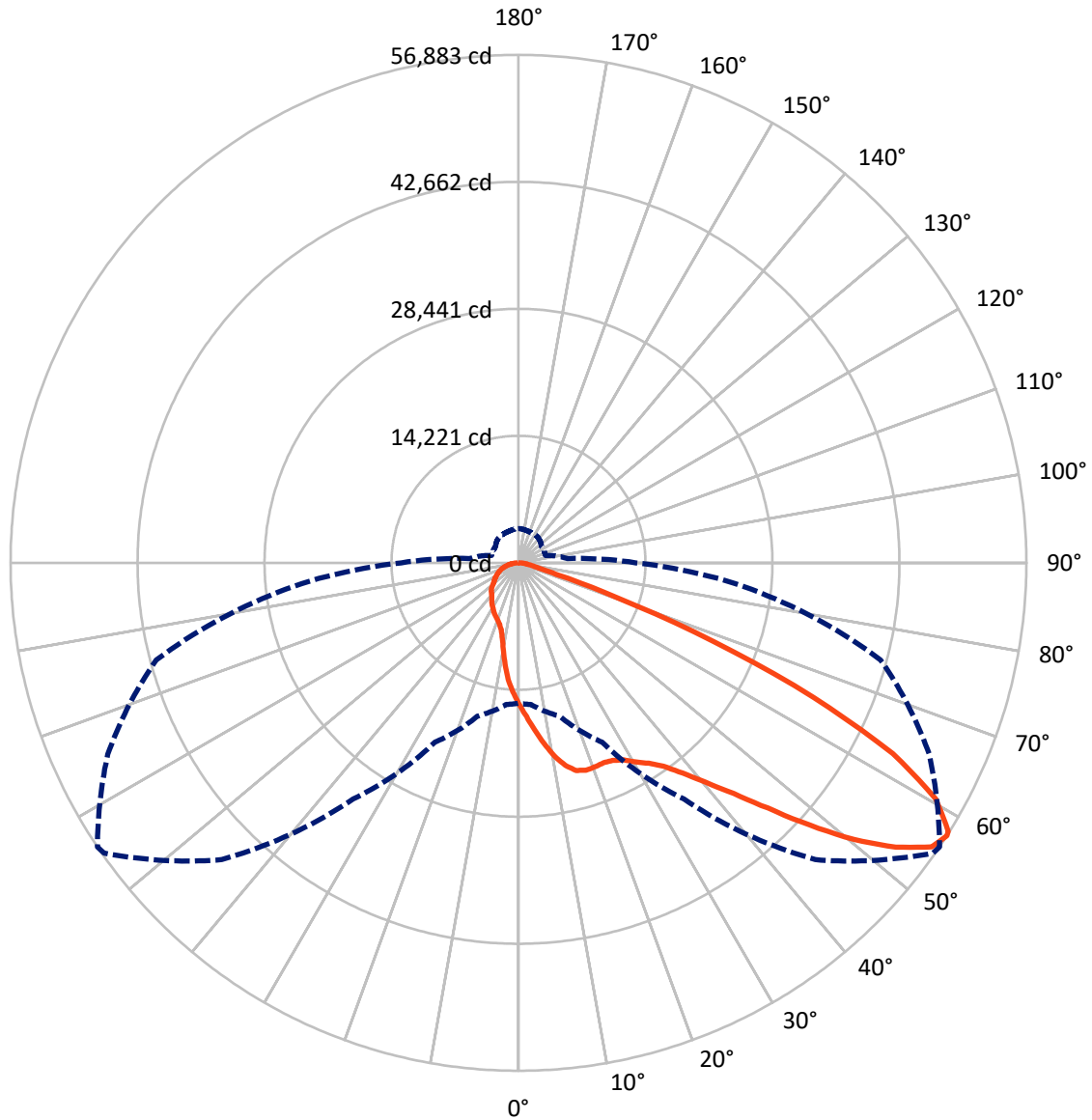
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 35.3 fc
 Type II - Short - N/A

REPORT NUMBER: P320974
CATALOG NUMBER: GAN-SAOC-740-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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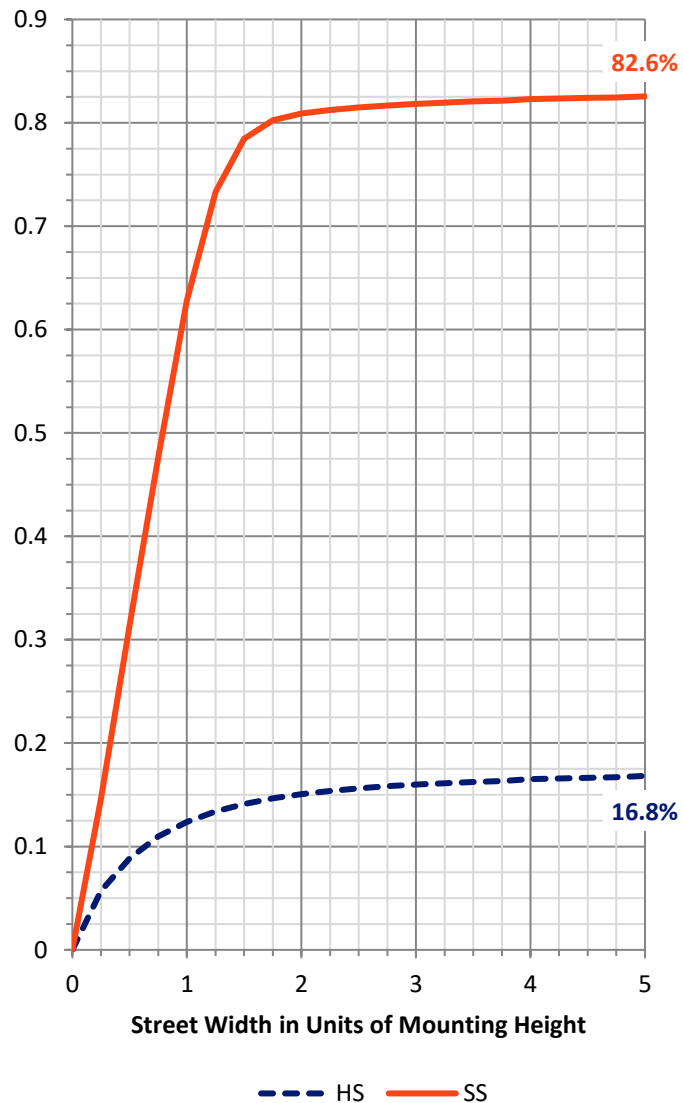
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12380.9	0.0	12380.9
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	59443.1	0.0	59443.1
	% Fixture	82.8	0.0	82.8
Total	Lumens	71824.0	0.0	71824.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1521.8	2.1
10°-20°	4302.4	6.0
20°-30°	7007.8	9.8
30°-40°	10475.9	14.6
40°-50°	15889.7	22.1
50°-60°	17809.5	24.8
60°-70°	10519.0	14.6
70°-80°	3446.4	4.8
80°-90°	851.5	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°	71824.0	100.0
0°-180°	71824.0	100.0

Coefficient of Utilization

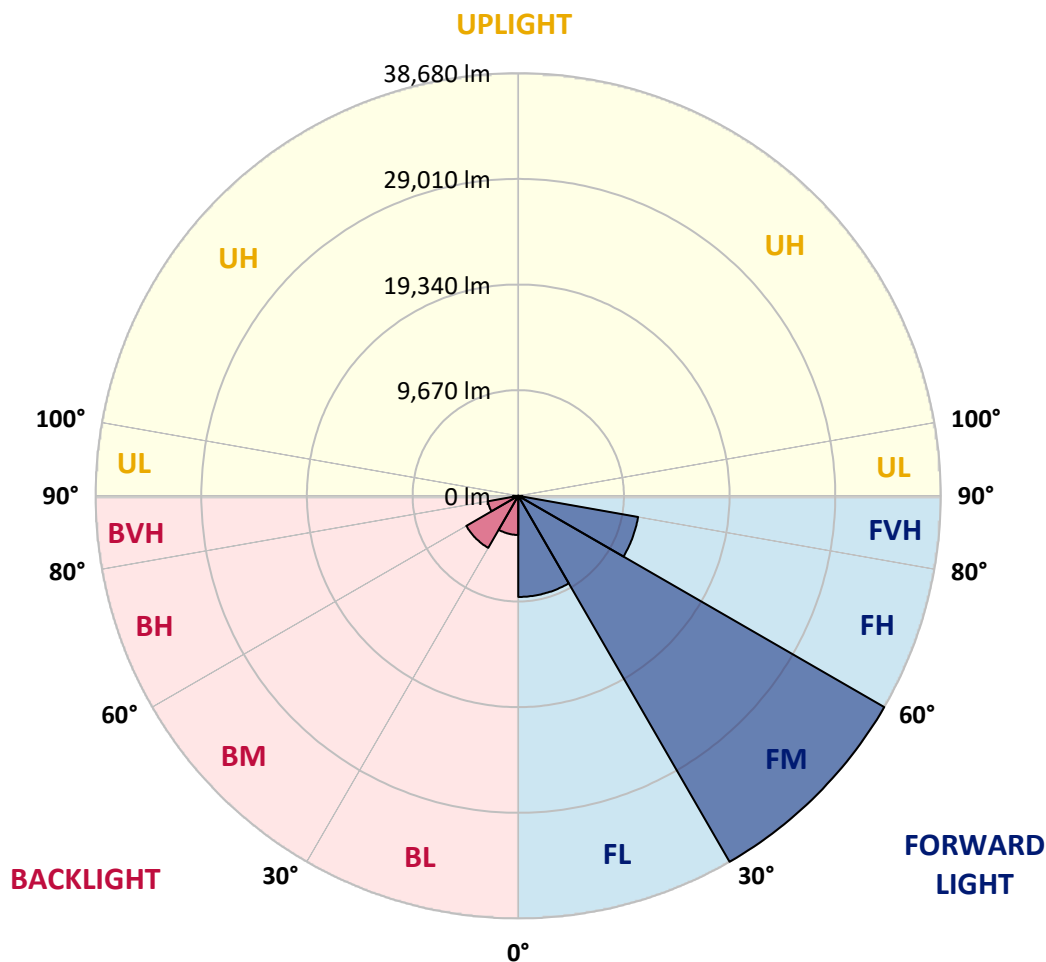


REPORT NUMBER: P320974
 CATALOG NUMBER: GAN-SAOC-740-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	9252.0	12.9			
FM (30°-60°)	38679.6	53.9			
FH (60°-80°)	11136.5	15.5			G4/12000
FVH (80°-90°)	374.9	0.5			G3/500
BL (0°-30°)	3580.0	5.0	B4/5000		
BM (30°-60°)	5495.5	7.7	B4/8500		
BH (60°-80°)	2828.9	3.9	B4/5000		G4/5000
BVH (80°-90°)	476.6	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	15930.6	15930.6	15930.6	15930.6	15930.6	15930.6	15930.6	15930.6	15930.6	15930.6	15930.6
2.5°	18292.8	18460.7	18386.6	18129.9	17932.4	17653.5	17342.5	17248.7	16920.4	16552.6	16110.8
5°	21188.2	21104.3	20983.3	20583.4	20161.4	19670.2	18890.2	18766.7	18036.1	17204.3	16325.6
7.5°	22837.0	22829.6	22758.0	22523.5	22138.5	21496.7	20556.3	20410.7	19307.3	17969.5	16607.0
10°	22597.6	22580.3	22698.8	22943.2	23059.2	22925.9	22133.6	21987.9	20632.8	18816.1	16932.8
12.5°	21237.5	21247.4	21437.5	21950.9	22649.4	23488.7	23360.3	23288.7	22007.7	19773.8	17327.7
15°	20178.6	20200.8	20351.4	20798.2	21622.6	23145.6	24105.8	24130.4	23338.1	20830.3	17789.3
17.5°	19714.6	19761.5	19830.6	20144.1	20899.4	22461.8	24283.5	24416.8	24503.2	21926.2	18233.6
20°	19862.7	19907.1	19926.9	20126.8	20746.3	22047.2	24160.1	24399.5	25396.7	22958.0	18677.9
22.5°	20526.7	20553.8	20566.2	20618.0	21099.3	22165.6	24078.6	24330.4	26043.4	23883.6	19013.6
25°	21627.5	21607.8	21528.8	21462.2	21785.5	22634.6	24266.2	24505.6	26569.1	24722.8	19233.3
27.5°	22945.6	22921.0	22767.9	22585.3	22770.4	23365.3	24806.8	24996.8	27040.6	25507.8	19344.3
30°	24527.8	24463.7	24174.9	23957.7	24029.2	24461.2	25697.8	25870.6	27768.8	26398.8	19452.9
32.5°	26356.9	26287.8	25870.6	25510.2	25510.2	25870.6	26616.0	26759.2	28385.8	27405.9	19628.2
35°	28647.5	28561.1	28018.1	27413.3	27243.0	27425.7	27867.5	27968.7	29496.6	28674.6	19946.6
37.5°	31347.8	31231.8	30528.4	29718.7	29346.0	29336.2	29654.6	29861.9	31271.3	30340.8	20487.2
40°	34055.6	33974.2	33359.5	32722.7	31992.1	31757.6	32248.8	32313.0	33591.6	32409.2	21178.3
42.5°	36148.8	36133.9	36020.4	36104.3	35356.4	34882.5	35267.6	35319.4	36425.2	34648.0	21913.9
45°	37254.6	37279.3	37829.7	39049.0	39325.5	38979.9	39170.0	39184.8	39663.7	36906.5	22587.7
47.5°	36368.4	36496.8	37888.9	40616.4	42879.9	44027.7	43711.7	43894.4	42803.4	38846.6	23115.9
50°	32915.2	33073.2	35442.8	39917.9	44538.6	48912.5	48747.1	48705.2	45335.9	40268.4	23402.3
52.5°	28637.6	28761.0	30716.0	36287.0	43321.7	51612.9	53130.9	52913.7	47587.0	41332.3	23456.6
55°	22123.7	22316.2	24189.7	29040.0	38399.9	50581.1	56354.5	56159.5	49638.2	41890.1	23392.4
57°	15728.2	15930.6	17791.8	22163.2	32303.1	47009.4	56675.4	56882.8	50746.5	41983.9	23464.0
57.5°	14034.9	14242.3	16086.1	20331.7	30402.5	45718.5	56399.0	56744.5	50946.4	41969.1	23503.5
60°	7066.8	7145.8	8320.8	11349.4	19218.4	36960.8	52792.7	53683.8	51126.6	41243.4	23673.8
62.5°	4393.6	4336.9	4299.8	5227.9	9350.0	24510.6	45350.7	47066.2	47678.3	39485.9	23261.6
65°	3862.9	3756.8	3349.5	3275.5	4129.5	11904.8	34151.9	36287.0	40310.4	36716.5	22279.2
67.5°	3628.5	3524.8	3065.7	2789.2	2791.7	4719.5	21203.0	23607.1	31402.1	32034.0	19961.4
70°	3386.6	3292.8	2863.3	2537.4	2377.0	2614.0	9754.9	11579.0	20469.9	25179.5	16683.5
72.5°	3075.5	3011.4	2604.1	2268.4	2098.1	1957.4	3734.6	4410.9	11850.5	16910.6	11586.4
75°	2749.7	2690.5	2342.4	2021.6	1814.2	1540.2	2103.0	2265.9	6020.3	8651.5	5704.3
77.5°	2391.8	2357.3	2083.3	1787.1	1621.7	1276.1	1488.4	1567.4	2581.9	3709.9	2860.8
80°	1903.1	1969.7	1821.6	1592.1	1439.0	1021.9	1054.0	1105.8	1503.2	1811.8	1624.2
82.5°	1239.1	1355.1	1426.7	1293.4	1184.8	804.7	757.8	780.0	979.9	1105.8	705.9
85°	515.9	580.1	938.0	846.6	787.4	587.5	508.5	518.4	607.2	629.4	288.8
87.5°	229.6	244.4	412.2	387.5	333.2	202.4	217.2	237.0	323.4	306.1	111.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P320974
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15930.6	15930.6	15930.6	15930.6	15930.6	15930.6	15930.6	15930.6	15930.6	15930.6	15930.6
2.5°	15945.4	15738.1	15382.7	14990.2	14669.3	14412.6	14153.4	13975.7	13768.4	13657.3	13600.5
5°	15957.8	15550.5	14802.6	14034.9	13348.8	12721.8	12124.5	11665.3	11235.9	11003.8	10939.7
7.5°	16009.6	15397.5	14188.0	12924.2	11704.8	10591.6	9732.6	9194.5	8807.0	8634.2	8584.9
10°	16051.6	15217.3	13427.7	11556.7	9898.0	8770.0	8103.5	7802.4	7669.1	7646.9	7624.7
12.5°	16150.3	15032.2	12628.0	10130.0	8493.5	7713.5	7481.5	7461.8	7498.8	7553.1	7553.1
15°	16305.8	14849.5	11714.7	8905.7	7600.0	7326.0	7372.9	7481.5	7582.7	7666.6	7679.0
17.5°	16419.4	14624.9	10732.3	7925.8	7123.6	7197.7	7365.5	7518.5	7622.2	7703.7	7711.1
20°	16500.8	14276.8	9683.3	7177.9	6849.6	7079.2	7289.0	7424.7	7496.3	7577.8	7590.1
22.5°	16458.9	13810.3	8752.7	6642.3	6627.5	6906.4	7106.3	7269.2	7214.9	7136.0	7187.8
25°	16256.4	13168.6	7795.0	6242.4	6393.0	6674.4	6921.2	6812.6	6629.9	6595.4	6615.1
27.5°	15896.1	12349.1	6908.9	5872.2	6121.5	6459.6	6444.8	6336.2	6272.0	6227.6	6254.8
30°	15508.5	11460.5	6133.8	5548.8	5820.3	6099.3	6042.5	6040.0	5975.8	5904.3	5938.8
32.5°	15126.0	10566.9	5519.2	5282.2	5593.2	5630.3	5753.7	5790.7	5664.8	5514.3	5504.4
35°	14792.7	9722.8	5052.7	5040.3	5319.3	5324.2	5504.4	5452.6	5139.1	4983.6	4983.6
37.5°	14543.4	8881.1	4697.2	4823.1	4958.9	5087.2	5178.6	4963.8	4912.0	4825.6	4823.1
40°	14434.8	8140.6	4475.1	4657.7	4704.6	4867.6	4633.1	4717.0	4741.7	4697.2	4697.2
42.5°	14321.3	7496.3	4282.6	4531.9	4524.5	4502.2	4383.8	4492.4	4591.1	4593.6	4586.2
45°	14207.7	6941.0	4112.2	4262.8	4366.5	4127.1	4149.3	4265.3	4403.5	4452.9	4452.9
47.5°	14081.8	6501.6	3956.7	3979.0	4139.4	3979.0	3961.7	4050.5	4213.4	4292.4	4309.7
50°	13805.4	6106.7	3779.0	3729.7	3774.1	3828.4	3843.2	3885.2	4065.3	4191.2	4220.9
52.5°	13422.8	5753.7	3551.9	3500.1	3500.1	3705.0	3774.1	3786.4	3939.5	4090.0	4119.6
55°	13104.4	5529.1	3317.4	3307.6	3297.7	3574.1	3692.6	3712.4	3818.5	3937.0	3951.8
57°	13126.6	5511.8	3137.3	3147.1	3144.7	3440.9	3616.1	3658.1	3712.4	3813.6	3830.9
57.5°	13138.9	5524.1	3097.8	3102.7	3100.2	3403.8	3593.9	3640.8	3682.8	3788.9	3806.2
60°	13324.1	5556.2	2937.3	2883.0	2895.4	3206.4	3468.0	3527.2	3554.4	3695.1	3717.3
62.5°	13050.1	5413.1	2809.0	2678.1	2678.1	2999.0	3292.8	3386.6	3428.5	3618.6	3655.6
65°	12255.3	5010.7	2658.4	2446.1	2470.8	2791.7	3082.9	3236.0	3300.2	3537.1	3576.6
67.5°	11028.5	4544.2	2498.0	2238.8	2263.5	2574.5	2865.7	3031.1	3132.3	3448.3	3480.4
70°	9431.5	3974.0	2280.7	2019.1	2048.7	2337.5	2609.0	2796.6	2947.2	3364.3	3374.2
72.5°	6953.3	3258.2	1977.1	1777.2	1809.3	2061.1	2349.9	2567.1	2769.5	3154.5	3149.6
75°	4134.5	2547.3	1641.4	1532.8	1555.1	1789.5	2115.4	2379.5	2683.1	3073.1	3120.0
77.5°	2507.8	1917.9	1337.8	1283.5	1310.7	1550.1	1947.5	2228.9	2646.1	2897.8	2883.0
80°	1515.6	1369.9	1068.8	1034.2	1061.4	1325.5	1801.9	2115.4	2312.8	2475.7	2475.7
82.5°	792.3	836.8	784.9	757.8	794.8	1076.2	1639.0	1846.3	2043.8	1755.0	1639.0
85°	323.4	436.9	476.4	473.9	496.1	745.4	1414.4	1579.7	1318.1	1251.4	1281.1
87.5°	108.6	185.1	232.0	199.9	209.8	469.0	979.9	762.7	905.9	631.9	599.8
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)