

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: P321883

Luminaire Tested: **GAN-SA9B-730-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321883
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-SA9B-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA 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: 33098 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G4

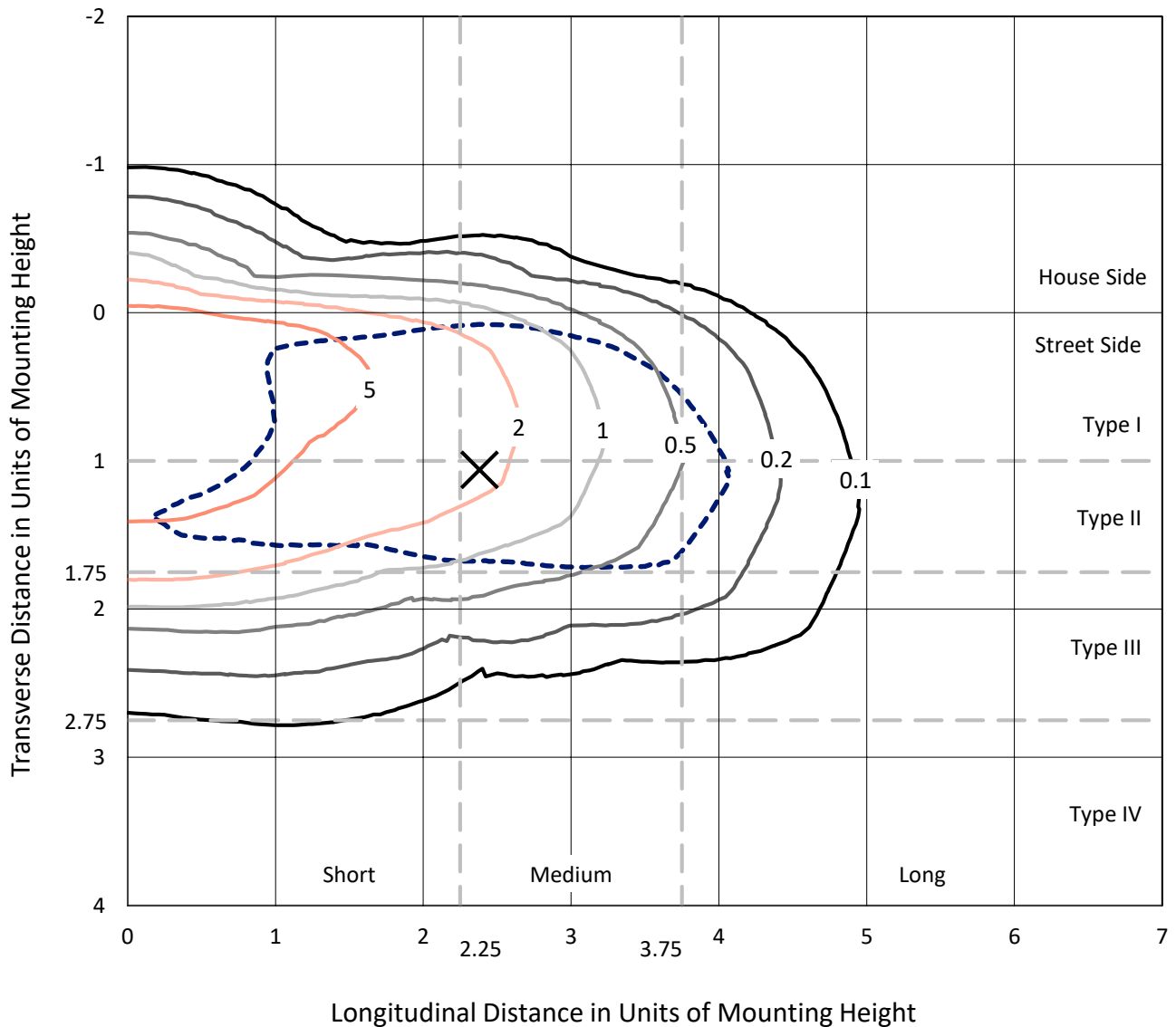
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

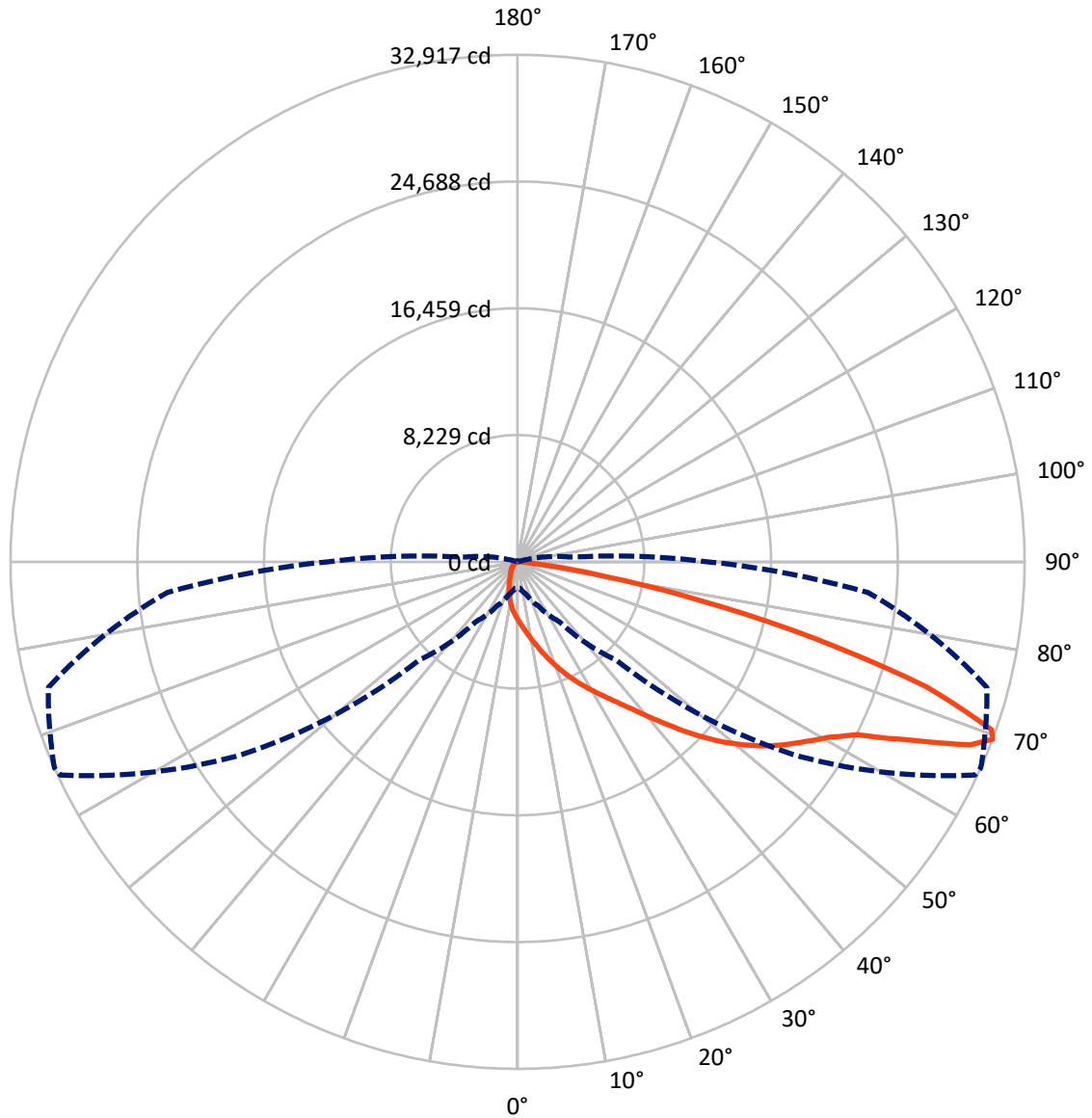
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10 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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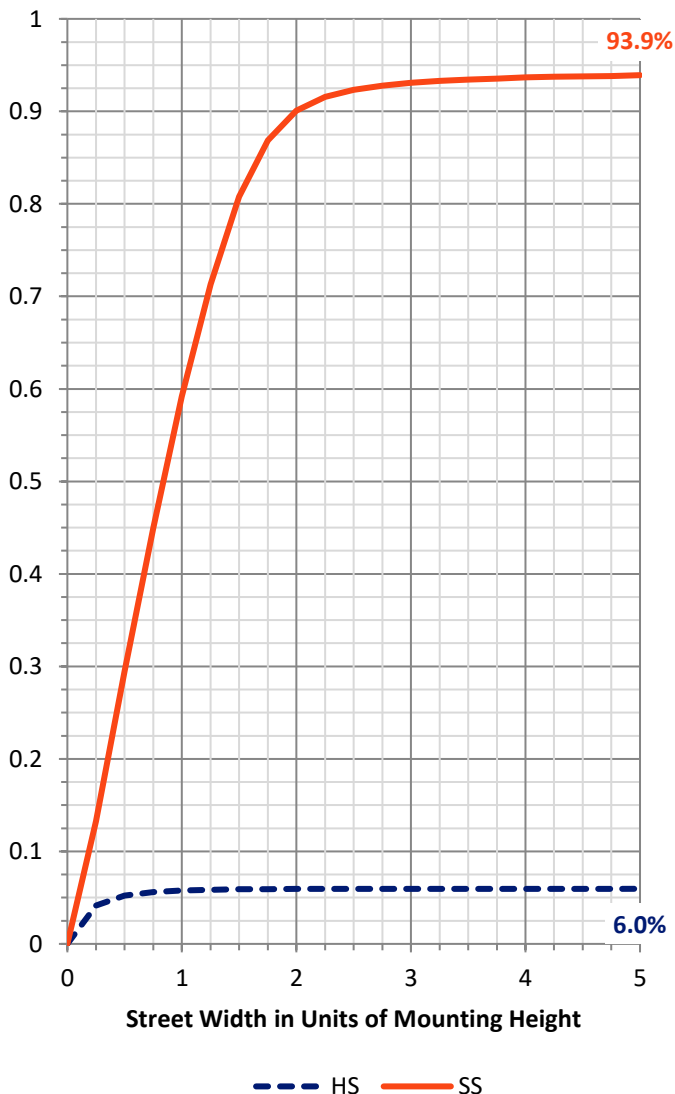
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1985.4	0.0	1985.4
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	31112.6	0.0	31112.6
	% Fixture	94.0	0.0	94.0
Total	Lumens	33098.0	0.0	33098.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	364.1	1.1
10°-20°	1083.6	3.3
20°-30°	1887.0	5.7
30°-40°	3310.7	10.0
40°-50°	5541.6	16.7
50°-60°	8145.6	24.6
60°-70°	8363.5	25.3
70°-80°	4128.8	12.5
80°-90°	273.0	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°	33098.0	100.0
0°-180°	33098.0	100.0



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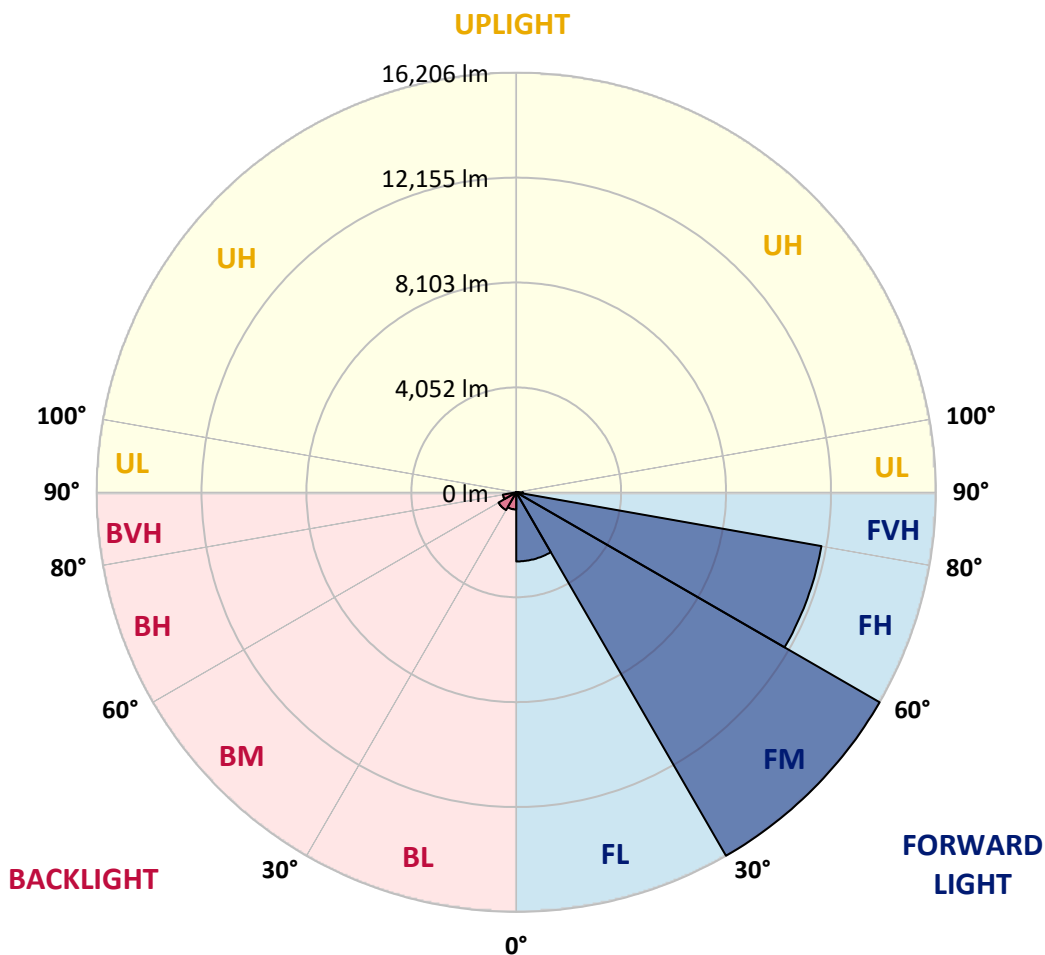
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2670.7	8.1			
FM (30°-60°)	16206.4	49.0			
FH (60°-80°)	11969.1	36.2			G4/12000
FVH (80°-90°)	266.4	0.8			G3/500
BL (0°-30°)	664.0	2.0	B2/1000		
BM (30°-60°)	791.6	2.4	B1/1000		
BH (60°-80°)	523.2	1.6	B2/1000		G2/1000
BVH (80°-90°)	6.6	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°	3766.7	3766.7	3766.7	3766.7	3766.7	3766.7	3766.7	3766.7	3766.7	3766.7	3766.7
2.5°	4433.2	4414.3	4406.5	4371.9	4312.2	4266.6	4178.5	4076.4	4057.5	3958.5	3837.4
5°	5008.6	4992.9	4981.9	4933.1	4871.8	4757.1	4596.7	4406.5	4370.3	4181.7	3939.6
7.5°	5409.5	5437.8	5437.8	5406.3	5329.3	5242.8	5046.3	4786.9	4741.3	4452.1	4076.4
10°	5643.7	5678.3	5705.0	5731.7	5720.7	5686.1	5500.6	5208.2	5153.2	4769.6	4235.1
12.5°	5665.7	5700.3	5775.8	5887.4	5995.8	6074.4	5958.1	5675.1	5612.3	5137.5	4423.8
15°	5543.1	5579.2	5695.6	5912.5	6175.1	6404.6	6442.3	6192.3	6127.9	5576.1	4659.6
17.5°	5329.3	5352.9	5519.5	5819.8	6231.7	6653.0	6880.9	6747.3	6687.5	6077.6	4922.1
20°	5170.5	5187.8	5334.0	5656.3	6197.1	6808.6	7295.9	7336.8	7273.9	6615.2	5206.7
22.5°	5442.5	5473.9	5478.6	5631.1	6102.7	6885.6	7660.7	7916.9	7869.7	7185.9	5486.5
25°	6186.1	6222.2	6102.7	6008.4	6182.9	6920.2	7973.5	8511.1	8473.4	7800.6	5767.9
27.5°	7168.6	7206.3	7052.3	6770.9	6602.7	7050.7	8251.7	9114.8	9113.2	8451.4	6071.3
30°	8133.8	8171.6	8014.4	7733.0	7346.2	7420.1	8492.3	9746.8	9756.2	9122.7	6393.6
32.5°	9146.3	9193.4	9031.5	8669.9	8265.9	8058.4	8830.3	10381.9	10435.3	9900.8	6756.7
35°	10297.0	10303.3	10075.3	9696.5	9231.1	8912.0	9372.6	11094.0	11221.4	10864.5	7217.3
37.5°	11425.7	11471.3	11284.3	10686.9	10259.3	9897.7	10179.1	11983.8	12164.6	12042.0	7819.4
40°	12262.1	12358.0	12331.2	11686.7	11281.1	11023.3	11180.5	13041.8	13271.3	13412.8	8578.7
42.5°	12787.1	12859.5	12982.1	12593.8	12225.9	12268.4	12362.7	14274.3	14557.3	14975.5	9451.2
45°	13389.2	13423.8	13526.0	13354.7	13106.3	13533.9	13617.2	15662.4	15959.6	16656.0	10419.6
47.5°	14125.0	14206.7	14235.0	14077.8	13964.6	14653.2	14826.1	16924.8	17341.4	18456.0	11444.6
50°	15061.9	15083.9	15132.7	15030.5	14917.3	15615.3	15910.8	18250.1	18628.9	20262.3	12455.4
52.5°	15978.4	16057.0	16226.8	16162.4	16116.8	16434.3	16877.6	19444.8	19867.7	21768.3	13464.7
55°	16242.5	16310.1	16896.5	17297.4	17668.4	17443.6	17802.0	20515.4	20972.9	23114.0	14436.2
57.5°	15187.7	15324.5	16340.0	17383.9	18922.9	19012.5	19072.2	21614.3	22024.6	24145.3	15447.1
60°	12521.5	12548.2	14214.6	16005.2	18715.4	20381.8	20927.3	22794.9	23139.2	25105.8	16657.6
62.5°	7964.1	8236.0	10064.3	12592.2	16520.8	20183.7	23170.6	24580.7	24706.5	26258.1	18393.1
65°	3793.4	3969.5	5286.8	7780.1	11966.5	17648.0	24719.1	27811.3	27867.9	28542.3	20711.9
67.5°	2100.3	2185.2	2812.4	4188.0	6995.7	12480.6	24093.4	31637.7	31691.2	30875.3	22746.2
69°	1642.8	1715.1	2208.7	3156.7	4742.9	8970.2	21802.9	32758.6	32917.4	31543.4	22818.5
70°	1394.4	1465.2	1902.2	2666.2	3813.8	6931.2	19407.1	32480.4	32648.6	31480.5	22279.3
72.5°	853.6	894.5	1267.1	1877.0	2556.2	3486.8	11968.1	27468.6	27753.2	28877.2	19147.7
75°	575.4	597.4	792.3	1295.4	1828.3	1795.3	6217.5	19361.5	19977.8	22463.2	14142.3
77.5°	411.9	432.3	531.4	837.9	1281.2	1185.3	2815.6	12032.6	12164.6	13472.6	7712.5
80°	234.2	253.1	375.7	498.3	869.3	790.7	1119.3	5747.5	5813.5	5777.3	2575.0
82.5°	122.6	138.3	205.9	328.6	558.1	517.2	465.3	1924.2	1933.6	1608.2	564.4
85°	23.6	28.3	102.2	224.8	287.7	224.8	190.2	451.2	460.6	407.2	139.9
87.5°	0.0	1.6	40.9	50.3	56.6	58.2	61.3	88.0	94.3	127.3	37.7
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°	3766.7	3766.7	3766.7	3766.7	3766.7	3766.7	3766.7	3766.7	3766.7	3766.7	3766.7
2.5°	3784.0	3727.4	3618.9	3493.1	3395.7	3299.8	3224.3	3145.7	3117.4	3103.2	3101.7
5°	3821.7	3702.2	3472.7	3236.9	3043.5	2861.2	2730.7	2606.5	2548.3	2521.6	2510.6
7.5°	3884.6	3692.8	3323.3	2963.3	2685.1	2457.1	2276.3	2141.1	2073.5	2045.3	2034.2
10°	3958.5	3680.2	3148.8	2674.1	2318.8	2083.0	1903.8	1770.1	1696.3	1664.8	1649.1
12.5°	4044.9	3658.2	2947.6	2381.7	2006.0	1770.1	1553.2	1388.1	1303.2	1267.1	1249.8
15°	4151.8	3636.2	2737.0	2106.6	1730.8	1443.2	1205.8	1094.2	1076.9	1070.6	1072.1
17.5°	4257.1	3601.6	2507.4	1834.6	1441.6	1127.2	1006.1	999.8	1003.0	1003.0	1003.0
20°	4351.5	3523.0	2257.5	1601.9	1166.5	951.1	925.9	914.9	907.1	900.8	892.9
22.5°	4425.4	3417.7	2017.0	1370.8	952.7	870.9	831.6	797.0	768.7	749.9	740.4
25°	4475.7	3277.7	1796.9	1149.2	856.8	792.3	721.6	663.4	619.4	592.7	581.7
27.5°	4513.4	3126.8	1600.4	962.1	790.7	701.1	608.4	539.2	493.6	470.0	460.6
30°	4540.1	2955.5	1427.4	845.8	716.9	605.2	506.2	438.6	405.6	393.0	386.7
32.5°	4565.3	2765.3	1263.9	790.7	647.7	517.2	424.5	372.6	352.1	336.4	331.7
35°	4628.1	2589.2	1108.3	732.6	576.9	441.7	364.7	327.0	306.6	297.1	294.0
37.5°	4777.5	2458.7	959.0	672.8	506.2	382.0	319.1	292.4	273.5	264.1	261.0
40°	5018.0	2392.7	833.2	608.4	437.0	336.4	289.3	264.1	243.7	229.5	226.4
42.5°	5371.7	2402.1	745.2	543.9	382.0	300.3	261.0	231.1	209.1	196.5	193.4
45°	5800.9	2471.3	683.8	481.1	336.4	272.0	229.5	198.1	177.6	166.6	163.5
47.5°	6266.2	2582.9	633.5	424.5	300.3	245.2	198.1	165.1	147.8	138.3	136.8
50°	6756.7	2691.4	581.7	369.4	268.8	218.5	166.6	136.8	122.6	114.8	111.6
52.5°	7253.5	2817.1	534.5	319.1	242.1	187.1	138.3	111.6	100.6	94.3	91.2
55°	7788.0	2911.5	488.9	279.8	215.4	158.8	114.8	92.8	83.3	75.5	73.9
57.5°	8416.8	3057.7	441.7	242.1	183.9	132.1	94.3	73.9	66.0	58.2	56.6
60°	9265.7	3229.0	391.4	213.8	150.9	108.5	77.0	59.7	50.3	44.0	42.4
62.5°	10385.0	3419.2	328.6	187.1	122.6	88.0	61.3	47.2	36.2	28.3	28.3
65°	11804.6	3728.9	268.8	157.2	100.6	72.3	47.2	34.6	20.4	12.6	12.6
67.5°	12633.1	3782.4	216.9	128.9	81.7	61.3	39.3	23.6	6.3	1.6	0.0
69°	12367.4	3472.7	183.9	110.0	70.7	58.2	36.2	17.3	3.1	0.0	0.0
70°	11867.5	3175.6	161.9	97.5	64.5	55.0	34.6	12.6	3.1	0.0	0.0
72.5°	9806.5	2260.6	122.6	72.3	47.2	48.7	31.4	7.9	3.1	0.0	0.0
75°	7143.4	1374.0	88.0	50.3	29.9	36.2	22.0	3.1	1.6	0.0	0.0
77.5°	3974.2	647.7	55.0	28.3	18.9	22.0	11.0	0.0	0.0	0.0	0.0
80°	1290.7	176.1	25.2	15.7	11.0	12.6	4.7	0.0	0.0	0.0	0.0
82.5°	239.0	50.3	14.1	7.9	3.1	3.1	0.0	0.0	0.0	0.0	0.0
85°	51.9	20.4	7.9	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.3	6.3	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)