

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: P322584

Luminaire Tested: **GAN-SA0D-740-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322584
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-740-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54539 lumens
Efficiency: N/A
Efficacy: 85.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

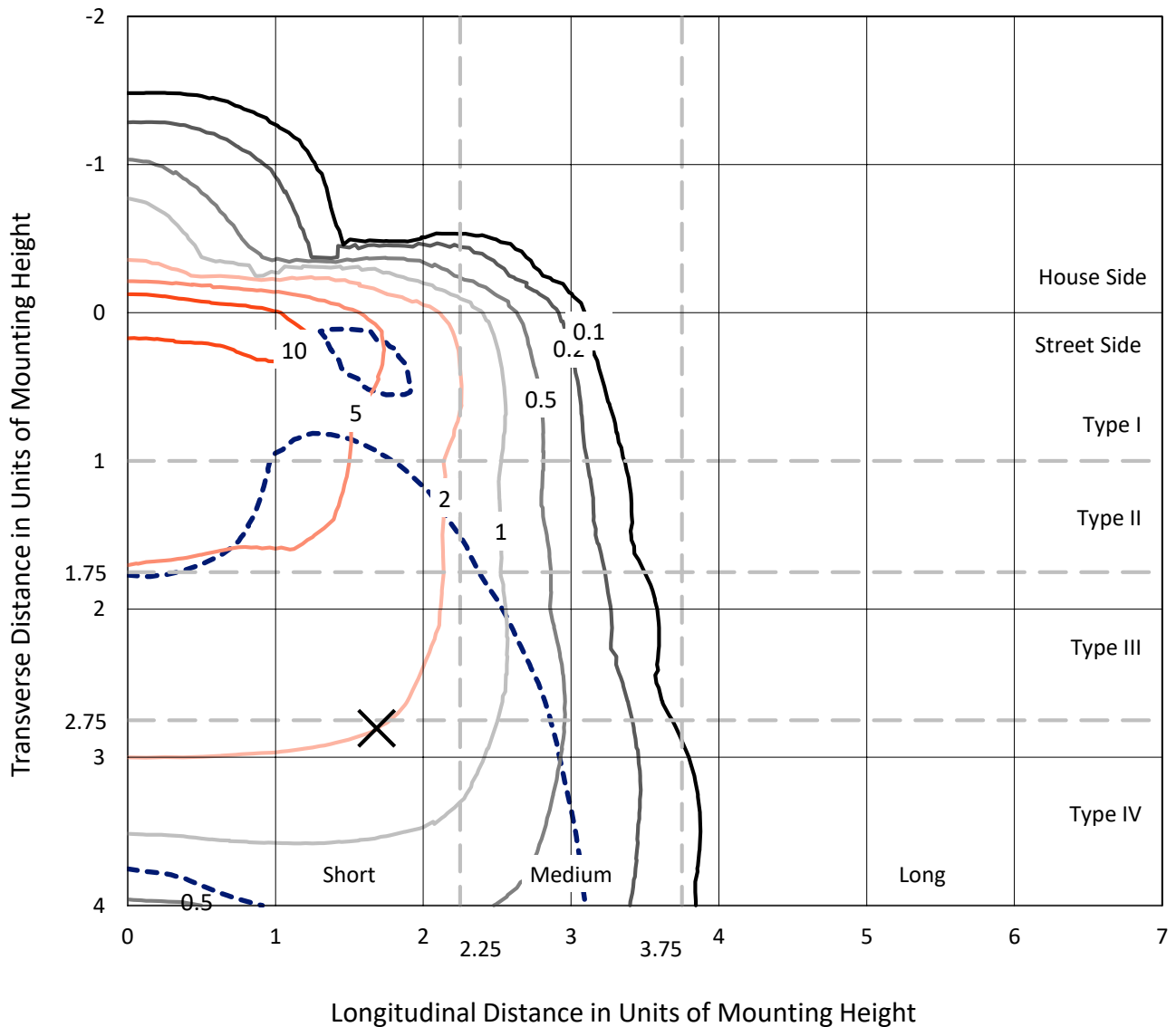
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

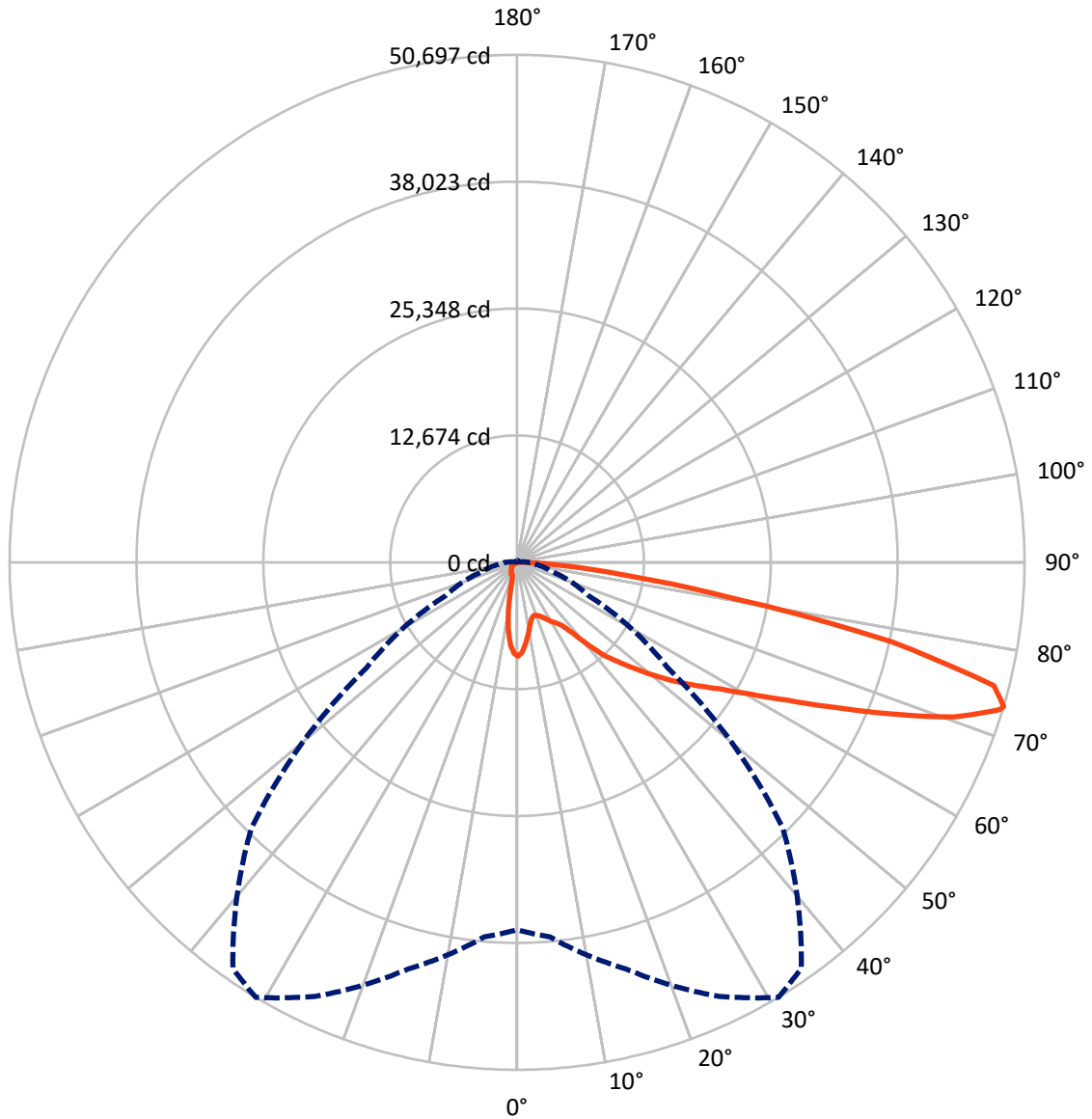
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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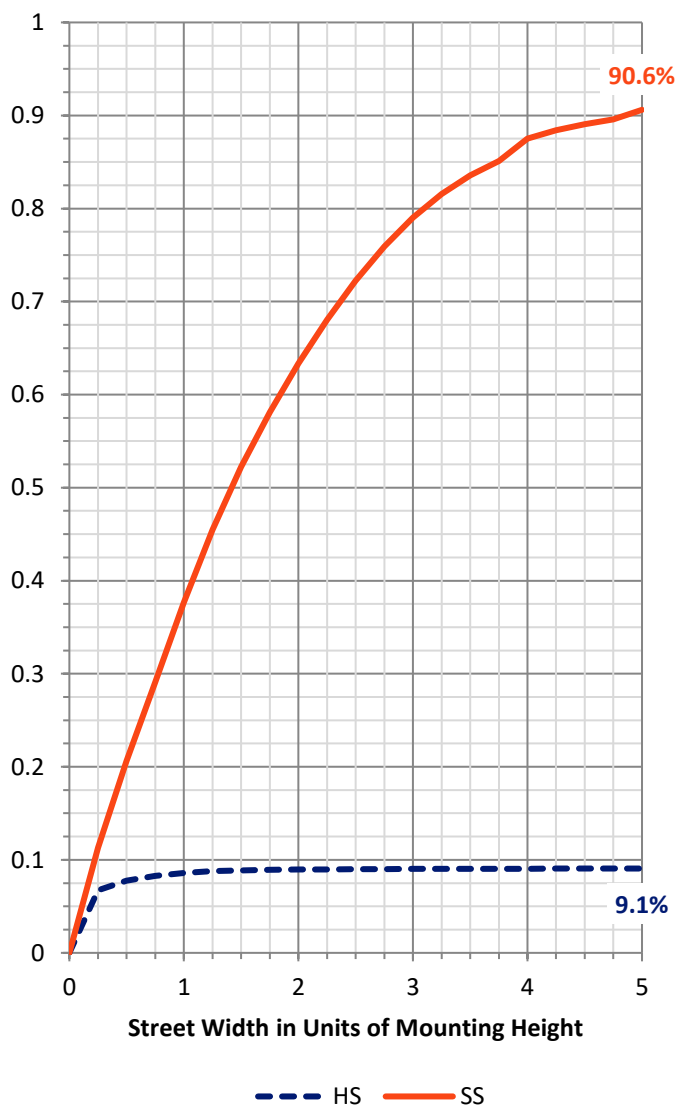
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4971.4	0.0	4971.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	49567.6	0.0	49567.6
	% Fixture	90.9	0.0	90.9
Total	Lumens	54539.0	0.0	54539.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	778.0	1.4
10°-20°	1689.3	3.1
20°-30°	2531.1	4.6
30°-40°	4027.0	7.4
40°-50°	7191.1	13.2
50°-60°	11158.5	20.5
60°-70°	14833.7	27.2
70°-80°	11157.9	20.5
80°-90°	1172.5	2.1
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°	54539.0	100.0
0°-180°	54539.0	100.0

Coefficient of Utilization

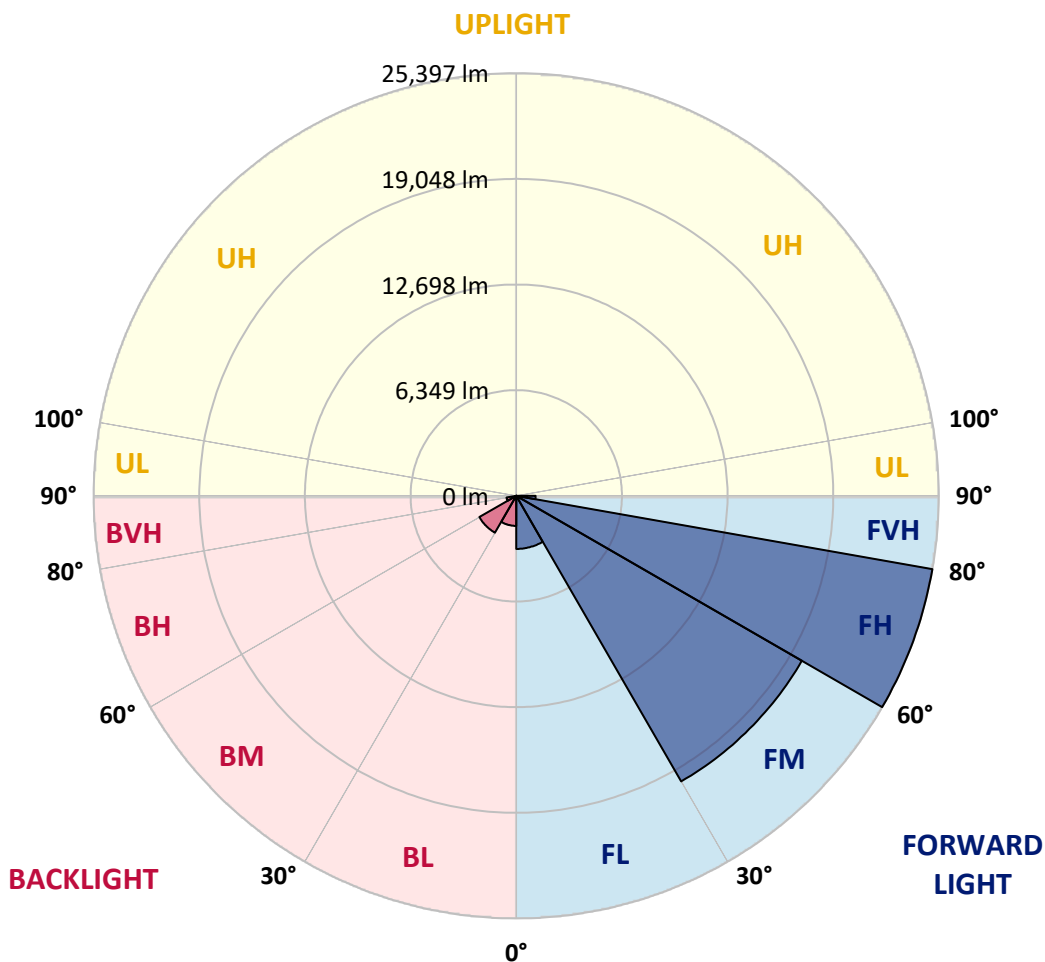


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3190.6	5.9			
FM (30°-60°)	19817.6	36.3			
FH (60°-80°)	25396.8	46.6			G5
FVH (80°-90°)	1162.6	2.1			G5
BL (0°-30°)	1807.8	3.3	B3/2500		
BM (30°-60°)	2558.9	4.7	B3/5000		
BH (60°-80°)	594.8	1.1	B2/1000		G2/1000
BVH (80°-90°)	9.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	9383.5	9383.5	9383.5	9383.5	9383.5	9383.5	9383.5	9383.5	9383.5	9383.5	9383.5
2.5°	8892.5	8929.8	8969.9	8977.9	9044.6	9047.3	9143.4	9215.4	9287.5	9356.9	9380.9
5°	7979.8	8041.1	8113.2	8185.2	8326.7	8382.7	8617.6	8857.8	9087.3	9306.2	9412.9
7.5°	7005.6	7075.0	7176.4	7355.2	7512.7	7622.1	7993.1	8420.1	8847.1	9250.1	9482.3
10°	6116.9	6181.0	6287.7	6477.2	6720.1	6869.5	7368.6	7961.1	8588.2	9199.4	9586.4
12.5°	5551.1	5585.8	5644.5	5847.4	6066.2	6234.3	6821.5	7555.4	8374.7	9196.7	9754.5
15°	5447.0	5457.7	5409.7	5500.4	5671.2	5834.0	6429.2	7227.1	8211.9	9239.4	9973.4
17.5°	5612.5	5607.2	5447.0	5436.4	5572.5	5705.9	6237.0	7000.3	8097.2	9338.2	10256.2
20°	5863.4	5844.7	5567.1	5516.4	5660.6	5786.0	6223.7	6914.9	8054.5	9503.6	10600.5
22.5°	6197.0	6165.0	5729.9	5676.6	5831.4	5962.1	6389.1	6997.6	8091.8	9725.2	11000.8
25°	6610.6	6562.6	6010.2	5951.5	6108.9	6239.7	6685.4	7235.2	8203.9	9994.7	11507.9
27.5°	7077.7	7008.3	6458.5	6306.4	6485.2	6621.3	7080.4	7598.1	8380.1	10280.3	12129.8
30°	7518.0	7427.3	6930.9	6680.0	6898.9	7051.0	7507.4	8030.5	8663.0	10720.6	12981.1
32.5°	7961.1	7859.7	7352.6	7053.7	7251.2	7416.6	7947.7	8625.6	9194.1	11393.2	14112.7
35°	8980.6	8873.8	8252.0	7758.2	7755.6	7849.0	8564.2	9439.6	9896.0	12329.9	15463.1
37.5°	10696.6	10635.2	10042.7	9106.0	8855.1	8751.0	9404.9	10411.0	10904.8	13619.0	16987.0
40°	12575.4	12522.1	11857.5	11008.9	10627.2	10371.0	10611.2	11764.1	12329.9	15193.6	18542.9
42.5°	14697.2	14443.6	13258.7	13005.1	12663.5	12468.7	12252.5	13432.1	14080.7	16906.9	20085.5
45°	16624.0	16197.0	14659.8	14275.5	14198.1	14246.1	14366.2	15673.9	16050.2	18943.2	21622.7
47.5°	17771.6	17435.4	16255.7	15887.4	15866.1	16183.7	17091.1	18206.6	18011.8	20718.0	22975.8
50°	18863.2	18558.9	17579.5	17670.2	17769.0	18201.3	20184.2	20811.4	19802.6	22327.3	24216.8
52.5°	19746.5	19282.2	18769.8	19279.5	19765.2	20461.8	23376.1	23149.3	21072.9	23608.3	25279.0
55°	20256.3	20045.5	20293.7	20806.1	21718.8	22850.4	26389.2	25094.8	22001.7	24777.3	25986.2
57.5°	22124.5	21710.8	22204.5	22647.5	23837.8	25420.4	28970.0	26544.0	22671.6	25500.5	26149.0
60°	24384.9	24051.3	24342.2	25078.8	26685.5	28545.6	31382.6	27726.3	23021.2	25964.9	25727.4
62.5°	27982.5	27542.2	27360.7	28185.3	30315.0	32346.0	33213.4	28545.6	22943.8	25759.4	24280.9
65°	32802.4	32346.0	31534.7	32282.0	34990.8	36424.0	35260.4	28719.1	22410.0	24096.7	20624.6
67.5°	37739.7	37408.8	36714.9	37974.5	40419.2	40880.9	37424.8	28297.4	20691.3	19538.4	14571.7
70°	41001.0	40859.5	41310.6	44096.8	46277.2	46143.8	39410.4	26031.6	16127.6	12015.0	7208.5
72.5°	38649.8	39327.6	42658.3	47710.4	50373.8	49285.0	38390.9	19989.4	9218.1	4622.4	2084.3
73°	36701.5	37568.9	42052.5	47846.5	50696.8	49503.8	37534.2	18348.1	7857.0	3648.3	1579.9
75°	25532.5	26597.4	34814.7	44561.2	49186.2	47165.9	31286.5	11230.4	3640.3	1617.3	637.8
77.5°	12396.6	13183.9	19170.1	32196.6	38252.1	36851.0	19477.0	4184.7	1644.0	1011.5	293.6
80°	4627.7	5145.5	8321.4	16386.5	22105.8	22684.9	8566.9	1582.6	1094.2	814.0	149.5
82.5°	1211.6	1350.4	3069.1	7307.2	11329.1	11857.5	2700.8	798.0	800.6	669.9	90.7
85°	387.0	443.0	958.1	3280.0	5337.6	4686.4	704.6	387.0	581.8	499.1	50.7
87.5°	48.0	61.4	304.2	771.3	1176.9	653.9	109.4	114.8	248.2	277.6	29.4
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°	9383.5	9383.5	9383.5	9383.5	9383.5	9383.5	9383.5	9383.5	9383.5	9383.5	9383.5
2.5°	9404.9	9391.6	9394.2	9324.8	9279.5	9188.7	9095.3	9052.6	9007.2	8988.6	9007.2
5°	9452.9	9428.9	9359.5	9146.0	8919.2	8625.6	8350.7	8142.5	7881.0	7808.9	7883.7
7.5°	9527.7	9479.6	9276.8	8841.8	8337.4	7776.9	7147.1	6688.0	6311.7	6068.9	6157.0
10°	9637.1	9546.3	9138.0	8398.8	7496.7	6503.9	5609.8	4913.3	4419.6	4216.7	4208.7
12.5°	9821.2	9650.4	8967.2	7822.3	6469.2	5145.5	3973.9	3218.6	2818.3	2559.4	2554.1
15°	10024.1	9773.2	8751.0	7131.1	5273.6	3685.6	2559.4	1985.6	1726.7	1644.0	1633.3
17.5°	10272.3	9914.6	8470.8	6279.7	4021.9	2442.0	1670.7	1505.2	1494.5	1486.5	1486.5
20°	10584.5	10082.8	8110.5	5305.6	2853.0	1630.6	1419.8	1430.5	1435.8	1425.1	1427.8
22.5°	10947.5	10253.6	7680.8	4259.4	1929.6	1363.8	1358.4	1371.8	1377.1	1371.8	1374.4
25°	11369.1	10451.1	7157.8	3162.5	1393.1	1294.4	1307.7	1326.4	1339.7	1339.7	1339.7
27.5°	11892.2	10691.3	6527.9	2207.1	1203.6	1222.3	1259.7	1294.4	1313.1	1318.4	1318.4
30°	12572.8	10990.2	5772.6	1513.2	1094.2	1126.2	1195.6	1262.3	1297.0	1302.4	1305.0
32.5°	13432.1	11326.4	4897.3	1118.2	1000.8	1024.8	1099.6	1211.6	1278.4	1289.0	1289.0
35°	14416.9	11716.1	3955.2	974.1	934.1	942.1	1000.8	1128.9	1246.3	1275.7	1278.4
37.5°	15495.1	12100.4	3007.8	910.1	878.0	878.0	920.7	1030.2	1168.9	1259.7	1270.4
40°	16501.3	12332.6	2108.4	859.4	827.3	827.3	864.7	944.8	1075.5	1211.6	1241.0
42.5°	17430.0	12412.6	1467.8	811.3	779.3	787.3	819.3	883.4	982.1	1118.2	1144.9
45°	18385.5	12399.3	1070.2	755.3	731.3	755.3	779.3	827.3	899.4	976.8	982.1
47.5°	19106.0	12287.2	848.7	701.9	685.9	717.9	739.3	771.3	811.3	806.0	806.0
50°	19781.2	12015.0	683.2	629.8	640.5	677.9	688.6	699.2	701.9	651.2	645.9
52.5°	20293.7	11590.7	547.1	552.4	595.1	632.5	621.8	605.8	579.1	517.7	507.1
55°	20464.5	10774.0	429.7	456.4	528.4	576.5	536.4	501.7	451.0	400.3	389.6
57.5°	20154.9	9719.8	349.6	355.0	445.7	485.7	440.4	400.3	344.3	301.6	293.6
60°	19498.3	8548.2	288.2	266.9	344.3	379.0	349.6	309.6	258.9	226.8	224.2
62.5°	18196.0	7299.2	237.5	208.2	261.5	290.9	272.2	242.9	200.2	178.8	176.1
65°	15457.8	5839.4	192.2	168.1	202.8	226.8	210.8	189.5	157.5	141.4	138.8
67.5°	10790.0	3947.2	157.5	138.8	160.1	178.8	165.5	154.8	125.4	122.8	125.4
70°	5204.2	1902.9	130.8	112.1	125.4	138.8	133.4	125.4	120.1	138.8	160.1
72.5°	1491.9	637.8	104.1	93.4	101.4	109.4	114.8	112.1	130.8	168.1	194.8
73°	1147.6	515.1	98.7	88.1	96.1	106.8	112.1	109.4	133.4	170.8	194.8
75°	491.1	248.2	74.7	72.1	80.1	93.4	98.7	98.7	133.4	173.5	186.8
77.5°	221.5	133.4	48.0	56.0	69.4	74.7	82.7	82.7	106.8	133.4	133.4
80°	125.4	72.1	37.4	42.7	50.7	50.7	50.7	45.4	48.0	53.4	58.7
82.5°	80.1	48.0	29.4	34.7	32.0	26.7	21.4	21.4	18.7	21.4	26.7
85°	45.4	26.7	26.7	21.4	13.3	10.7	13.3	10.7	2.7	0.0	2.7
87.5°	26.7	16.0	8.0	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)