

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: P318723

Luminaire Tested: **GAN-SA9B-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318723
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-SA9B-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA 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: 51396 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

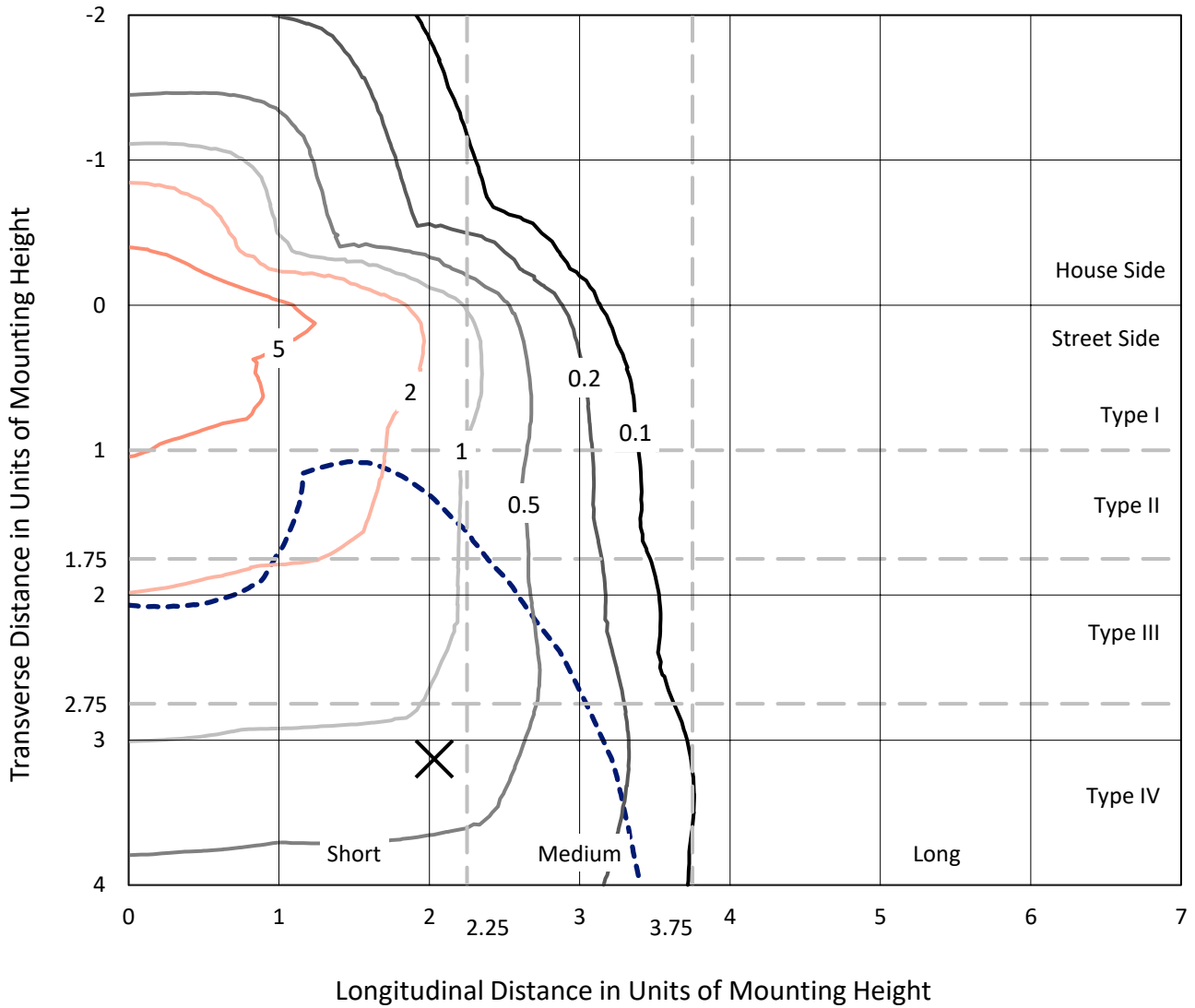
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

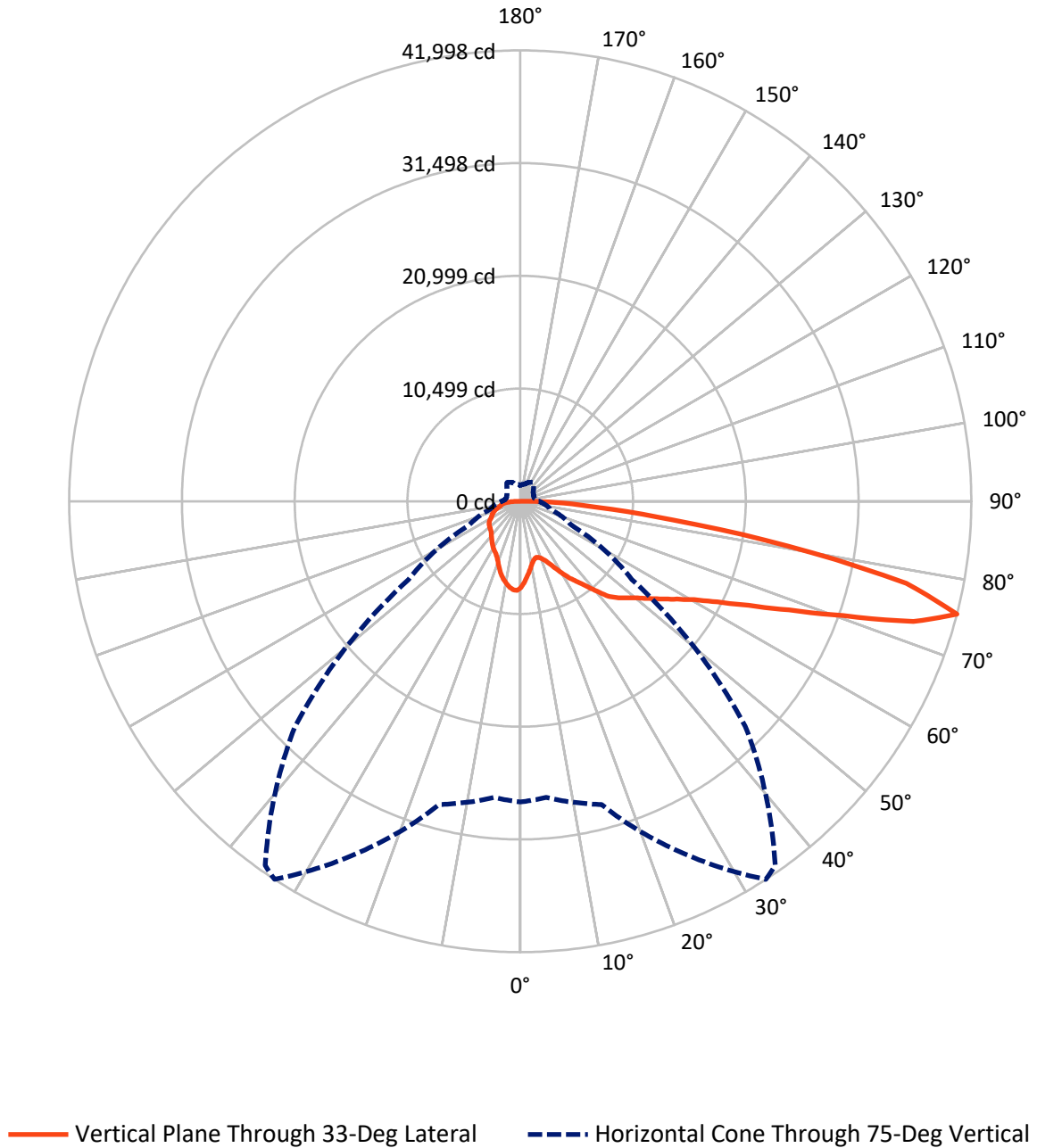
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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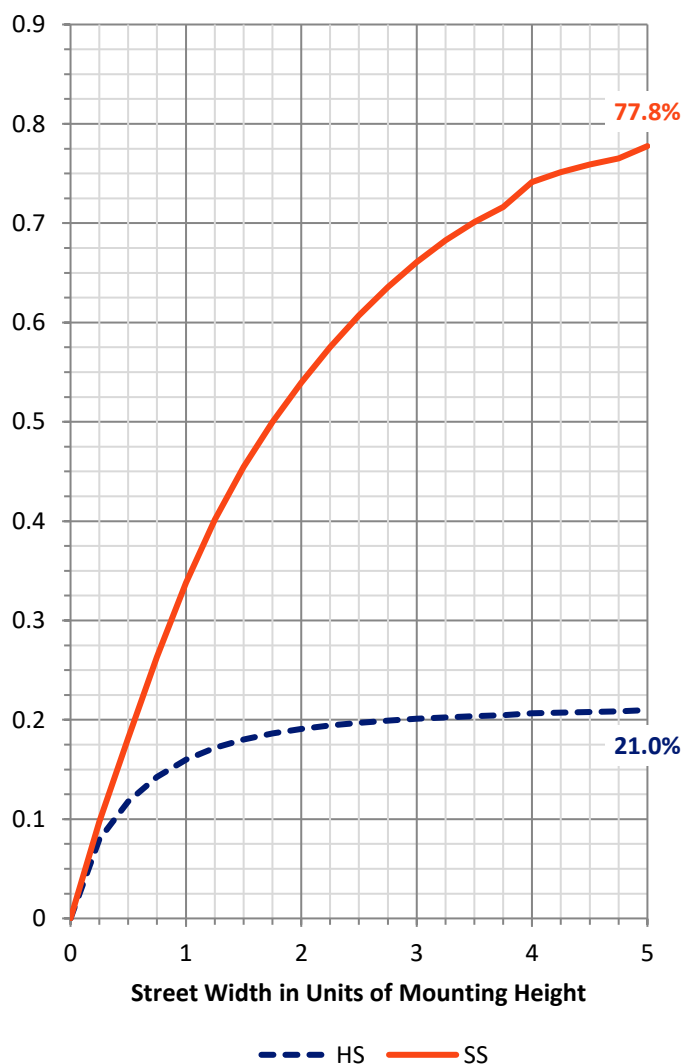
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11036.1	0.0	11036.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	40359.9	0.0	40359.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	51396.0	0.0	51396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	726.5	1.4
10°-20°	1967.7	3.8
20°-30°	3213.6	6.3
30°-40°	4785.8	9.3
40°-50°	6864.2	13.4
50°-60°	9423.4	18.3
60°-70°	11797.7	23.0
70°-80°	10672.8	20.8
80°-90°	1944.1	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°	51396.0	100.0
0°-180°	51396.0	100.0

Coefficient of Utilization



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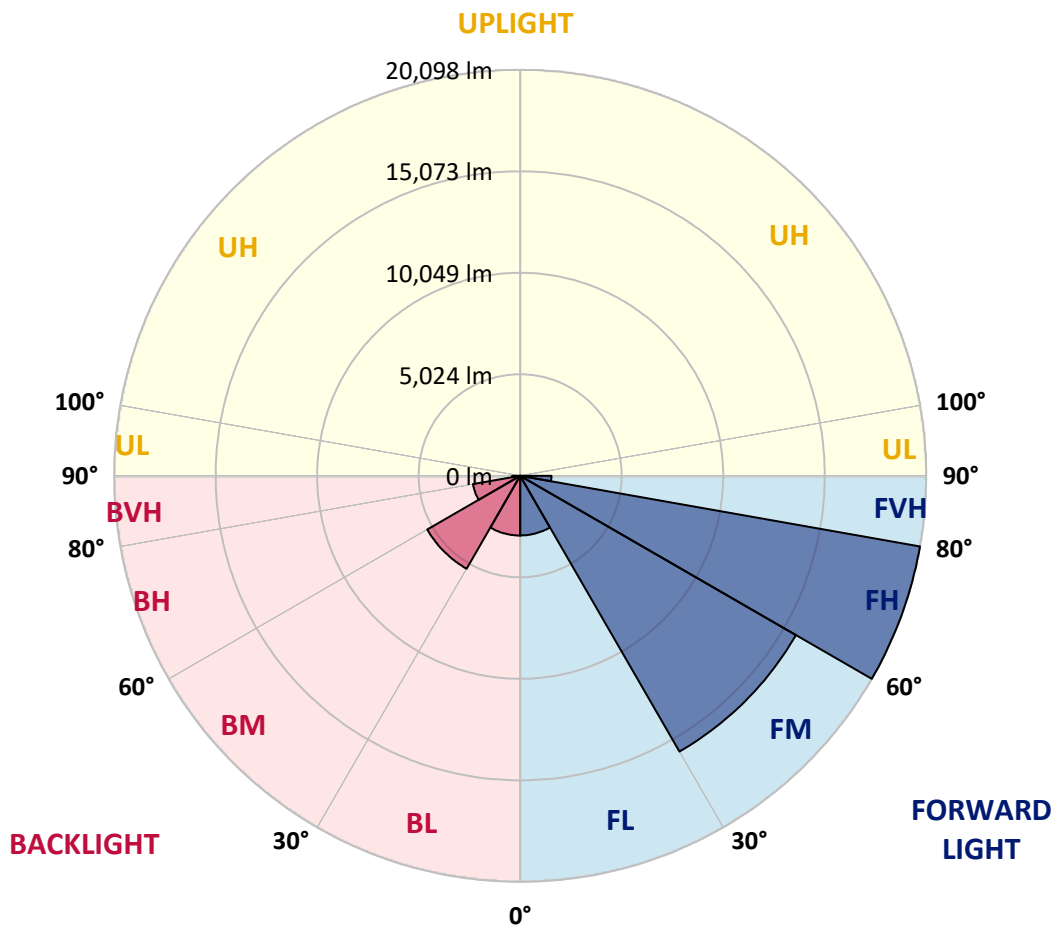
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2951.9	5.7			
FM (30°-60°)	15762.1	30.7			
FH (60°-80°)	20097.6	39.1			G5
FVH (80°-90°)	1548.3	3.0			G5
BL (0°-30°)	2956.0	5.8	B4/5000		
BM (30°-60°)	5311.3	10.3	B4/8500		
BH (60°-80°)	2373.0	4.6	B3/2500		G3/2500
BVH (80°-90°)	395.8	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°	8033.5	8033.5	8033.5	8033.5	8033.5	8033.5	8033.5	8033.5	8033.5	8033.5	8033.5
2.5°	7460.0	7431.6	7484.9	7492.0	7538.2	7555.9	7619.8	7719.2	7800.9	7895.0	7980.2
5°	6783.6	6764.1	6838.7	6891.9	6993.1	7035.7	7186.6	7397.9	7586.1	7799.1	7992.6
7.5°	6141.0	6130.3	6213.7	6334.5	6451.6	6510.2	6771.2	7078.3	7392.6	7737.0	8033.5
10°	5599.5	5595.9	5675.8	5794.8	5967.0	6032.7	6370.0	6774.8	7215.0	7689.1	8102.7
12.5°	5295.9	5308.3	5345.6	5445.0	5604.8	5670.5	6045.1	6520.9	7065.9	7673.1	8203.9
15°	5370.4	5390.0	5326.1	5322.5	5436.1	5487.6	5839.1	6339.8	6959.4	7699.7	8351.3
17.5°	5688.2	5691.8	5523.1	5416.6	5485.8	5512.5	5775.2	6236.8	6897.3	7760.1	8535.9
20°	6135.6	6126.8	5828.5	5651.0	5688.2	5695.3	5865.8	6238.6	6891.9	7864.8	8775.6
22.5°	6728.6	6662.9	6261.7	6020.2	6011.4	6000.7	6098.3	6370.0	6970.0	8035.3	9061.4
25°	7502.7	7440.5	6888.4	6558.2	6487.1	6460.5	6474.7	6650.5	7124.5	8218.1	9381.0
27.5°	8363.7	8255.4	7722.8	7255.9	7108.5	7071.2	6986.0	7046.4	7293.2	8393.9	9760.9
30°	9084.5	9025.9	8560.8	8006.9	7832.9	7779.6	7555.9	7490.2	7536.4	8633.6	10240.2
32.5°	9487.5	9448.4	9166.2	8718.8	8557.2	8482.6	8166.6	8035.3	7927.0	9011.7	10890.0
35°	9975.7	9950.9	9780.4	9455.5	9215.9	9137.8	8892.8	8756.1	8477.3	9531.9	11729.8
37.5°	10597.1	10570.5	10574.0	10311.3	10025.4	9952.6	9791.1	9647.3	9191.0	10215.4	12642.3
40°	11300.1	11248.7	11229.1	11216.7	11035.6	10994.8	10909.6	10714.3	10085.8	11032.1	13542.4
42.5°	12358.2	12175.4	11784.8	11932.2	12111.5	12090.2	12159.4	11878.9	11080.0	11997.9	14421.2
45°	13379.1	13079.0	12404.4	12436.4	12828.7	12947.7	13466.1	13267.2	12157.6	13056.0	15330.2
47.5°	13844.2	13617.0	13043.5	13045.3	13434.1	13680.9	14817.1	14675.1	13290.3	14257.9	16439.8
50°	14364.4	14137.2	13622.3	13815.8	14154.9	14417.7	16122.0	16049.2	14368.0	15573.4	17769.5
52.5°	14932.5	14547.3	14220.6	14566.8	15042.6	15347.9	17428.7	17229.8	15356.8	16897.8	19298.1
55°	14939.6	14834.9	15083.4	15337.3	16049.2	16423.8	18797.5	18272.0	16162.8	18199.2	20542.6
57.5°	15790.0	15619.6	16146.9	16264.0	17194.3	17616.9	20159.2	19179.2	16983.0	19196.9	21213.7
60°	16915.6	16770.0	17201.4	17510.3	18611.1	19175.6	21613.2	20111.2	17627.5	19949.7	21181.8
62.5°	18859.6	18694.5	18689.2	19122.4	20604.8	21261.7	23244.7	21025.5	17883.2	20098.8	20278.1
65°	21705.5	21442.7	20947.4	21153.4	23358.4	24013.5	25068.0	21687.7	17545.8	19299.9	17950.6
67.5°	24475.0	24466.2	23857.2	24279.8	26994.3	27519.8	27145.2	21753.4	16493.1	16517.9	13821.1
70°	27235.7	27271.2	27168.3	28638.3	31906.7	32453.5	29357.3	20871.1	14126.5	11928.6	8280.3
72.5°	29423.0	29414.1	29932.5	33722.9	38282.0	38159.5	31221.4	18197.4	10142.6	6439.2	3957.3
75°	28006.2	27697.3	29241.9	36240.3	41997.8	41399.5	29636.0	12693.8	5263.9	2931.1	2130.4
77.5°	18266.6	18559.6	20826.7	29937.8	36735.7	36007.8	21742.8	5922.6	2480.2	1922.7	1544.6
80°	6615.0	6923.9	9752.0	16958.2	25309.5	25190.5	10707.2	2434.0	1677.7	1452.2	1125.6
82.5°	2276.0	2389.6	3847.2	7531.1	14289.8	14822.4	4028.3	1383.0	1219.7	1029.7	770.5
85°	893.0	1022.6	1759.4	3623.5	7207.9	7261.2	1631.6	827.3	848.6	674.6	422.5
87.5°	339.1	411.9	841.5	1683.0	3291.5	3023.4	584.1	394.1	482.9	401.2	200.6
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°	8033.5	8033.5	8033.5	8033.5	8033.5	8033.5	8033.5	8033.5	8033.5	8033.5	8033.5
2.5°	8045.9	8083.2	8161.3	8214.6	8271.4	8287.4	8294.5	8308.7	8322.9	8317.5	8319.3
5°	8095.6	8168.4	8294.5	8347.7	8372.6	8344.2	8289.1	8244.8	8212.8	8195.0	8189.7
7.5°	8177.3	8280.3	8415.2	8406.3	8349.5	8223.4	8081.4	7974.9	7886.1	7854.2	7836.4
10°	8285.6	8406.3	8500.4	8399.2	8234.1	8015.7	7802.7	7637.6	7504.4	7452.9	7444.1
12.5°	8424.1	8546.6	8564.3	8349.5	8076.1	7777.8	7488.4	7270.1	7071.2	7007.3	6993.1
15°	8603.4	8718.8	8608.7	8262.5	7880.8	7479.6	7105.0	6808.5	6599.0	6520.9	6492.5
17.5°	8791.6	8901.6	8617.6	8118.7	7625.2	7126.3	6655.8	6352.2	6112.5	6022.0	6011.4
20°	9017.0	9066.7	8580.3	7912.8	7273.6	6668.2	6172.9	5887.1	5759.3	5695.3	5688.2
22.5°	9295.8	9242.5	8495.1	7634.0	6828.0	6139.2	5736.2	5603.0	5571.1	5556.9	5562.2
25°	9590.5	9427.1	8369.0	7270.1	6265.2	5610.1	5416.6	5453.9	5496.5	5491.2	5491.2
27.5°	9915.4	9615.3	8175.5	6787.2	5642.1	5176.9	5200.0	5336.7	5400.6	5398.9	5397.1
30°	10332.6	9828.4	7928.7	6206.6	5059.8	4871.6	5011.8	5178.7	5265.7	5262.2	5263.9
32.5°	10845.6	10062.7	7593.2	5558.6	4639.0	4646.1	4807.7	4972.8	5074.0	5065.1	5066.9
35°	11445.7	10325.5	7138.7	4919.5	4360.3	4466.8	4594.6	4710.0	4805.9	4793.5	4781.0
37.5°	12099.0	10582.9	6535.1	4347.8	4133.0	4299.9	4406.4	4426.0	4470.3	4438.4	4415.3
40°	12720.4	10780.0	5757.5	3879.2	3904.0	4157.9	4227.1	4149.0	4069.1	4058.5	4026.5
42.5°	13261.9	10845.6	4971.0	3504.6	3662.6	4008.8	4051.4	3888.0	3744.2	3676.8	3648.4
45°	13833.6	10868.7	4237.8	3190.3	3430.0	3875.6	3921.8	3703.4	3501.0	3355.4	3307.5
47.5°	14581.0	11035.6	3667.9	2957.7	3252.5	3786.8	3852.5	3556.0	3293.3	3085.6	3041.2
50°	15559.2	11365.8	3204.5	2780.2	3137.1	3728.2	3802.8	3412.2	3122.9	2872.5	2828.1
52.5°	16645.7	11669.4	2829.9	2636.4	3025.2	3625.3	3738.9	3309.3	2963.1	2675.5	2627.5
55°	17405.6	11436.8	2528.1	2487.3	2879.6	3477.9	3650.1	3222.3	2734.0	2483.7	2441.1
57.5°	17551.2	10641.5	2299.1	2332.8	2703.9	3293.3	3513.4	3028.8	2609.8	2400.3	2355.9
60°	17153.5	9533.7	2128.7	2190.8	2515.7	3060.7	3257.8	2892.1	2490.8	2311.5	2274.2
62.5°	16154.0	8399.2	2002.6	2063.0	2339.9	2824.6	3098.0	2748.3	2370.1	2210.3	2173.0
65°	14135.4	7051.7	1881.9	1949.3	2176.6	2620.4	2954.2	2615.1	2251.2	2128.7	2093.1
67.5°	10669.9	5281.7	1768.3	1828.6	2031.0	2442.9	2798.0	2483.7	2135.8	2057.6	2015.0
70°	6283.0	3307.5	1638.7	1702.6	1878.3	2258.3	2631.1	2339.9	1991.9	1956.4	1901.4
72.5°	2924.0	1990.2	1491.3	1553.4	1686.6	2011.5	2416.3	2151.7	1821.5	1743.4	1668.8
75°	1745.2	1455.8	1317.3	1372.3	1466.4	1748.7	2146.4	1960.0	1660.0	1557.0	1478.9
77.5°	1304.9	1113.1	1125.6	1184.2	1260.5	1530.4	1901.4	1809.1	1535.7	1455.8	1402.5
80°	939.2	845.1	917.9	981.8	1061.7	1391.9	1821.5	1672.4	1388.3	1281.8	1232.1
82.5°	626.7	607.2	690.6	756.3	834.4	1217.9	1711.4	1464.7	1185.9	1051.0	940.9
85°	346.2	365.7	465.1	493.5	561.0	857.5	1402.5	1177.1	893.0	719.0	687.1
87.5°	143.8	168.7	250.3	241.4	298.3	511.3	923.2	710.1	568.1	424.3	330.2
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)