

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: P320052

Luminaire Tested: **GAN-SA8C-750-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320052
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-750-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53864 lumens
Efficiency: N/A
Efficacy: 121.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

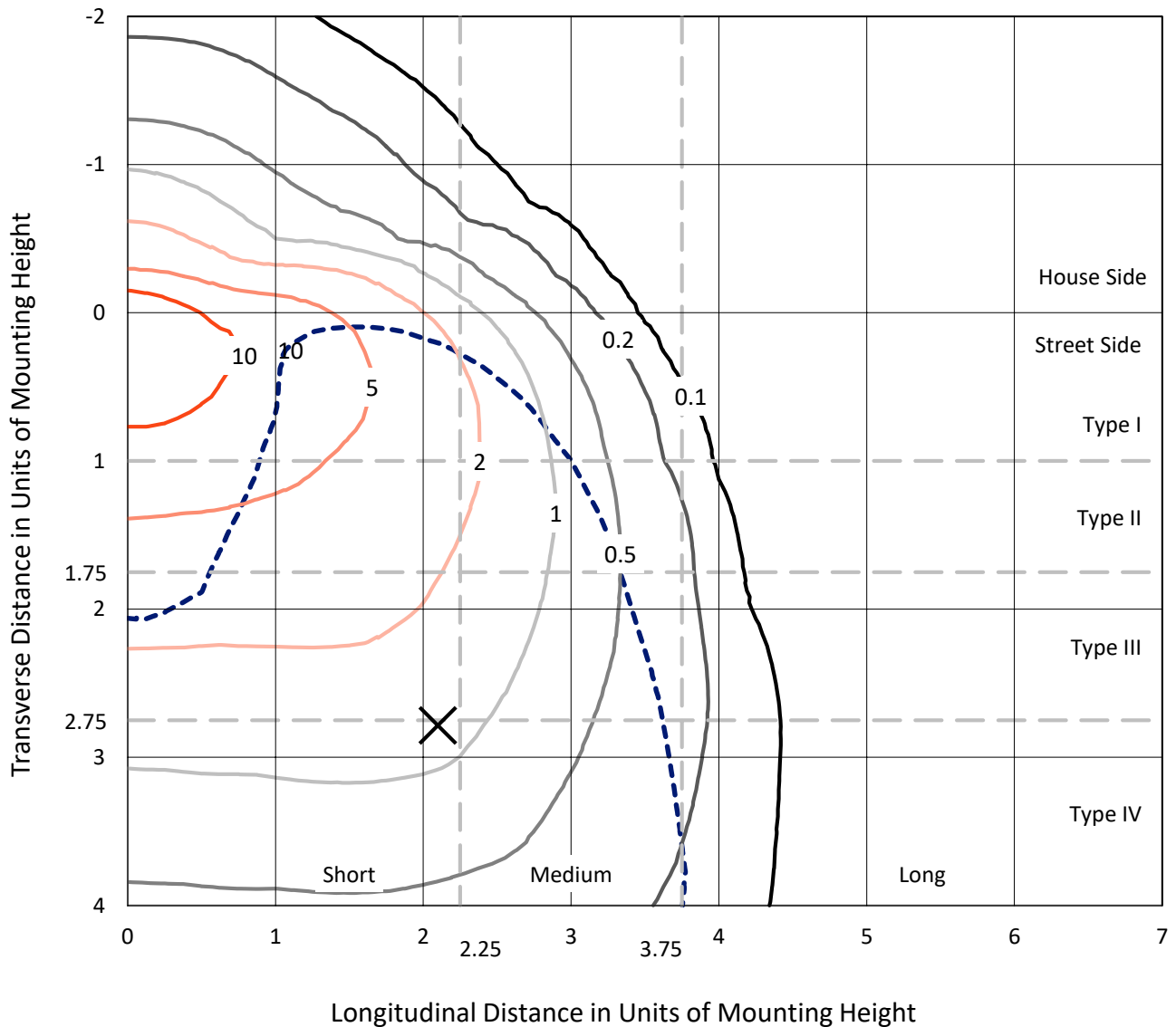
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

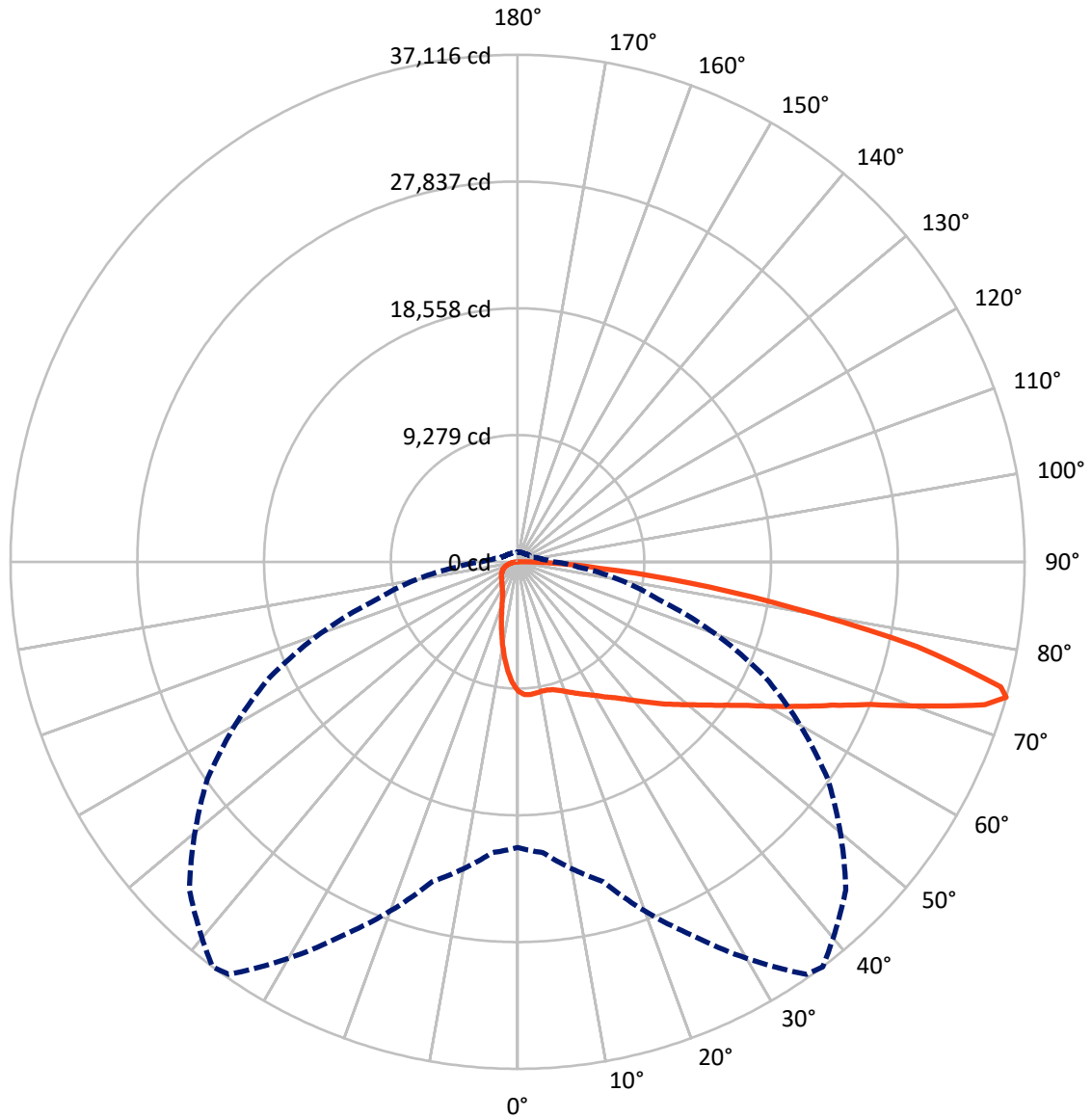
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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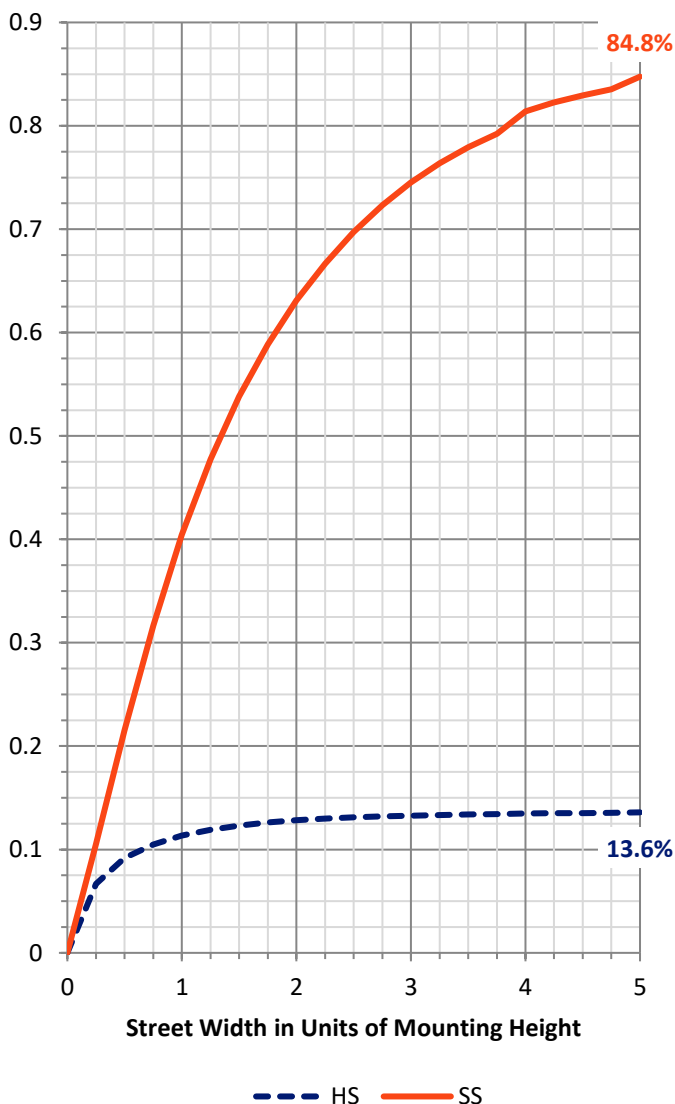
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7411.3	0.0	7411.3
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	46452.7	0.0	46452.7
	% Fixture	86.2	0.0	86.2
Total	Lumens	53864.0	0.0	53864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	835.8	1.6
10°-20°	2142.3	4.0
20°-30°	3300.8	6.1
30°-40°	4799.9	8.9
40°-50°	7064.6	13.1
50°-60°	9920.9	18.4
60°-70°	12556.9	23.3
70°-80°	11056.8	20.5
80°-90°	2186.2	4.1
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°	53864.0	100.0
0°-180°	53864.0	100.0

Coefficient of Utilization



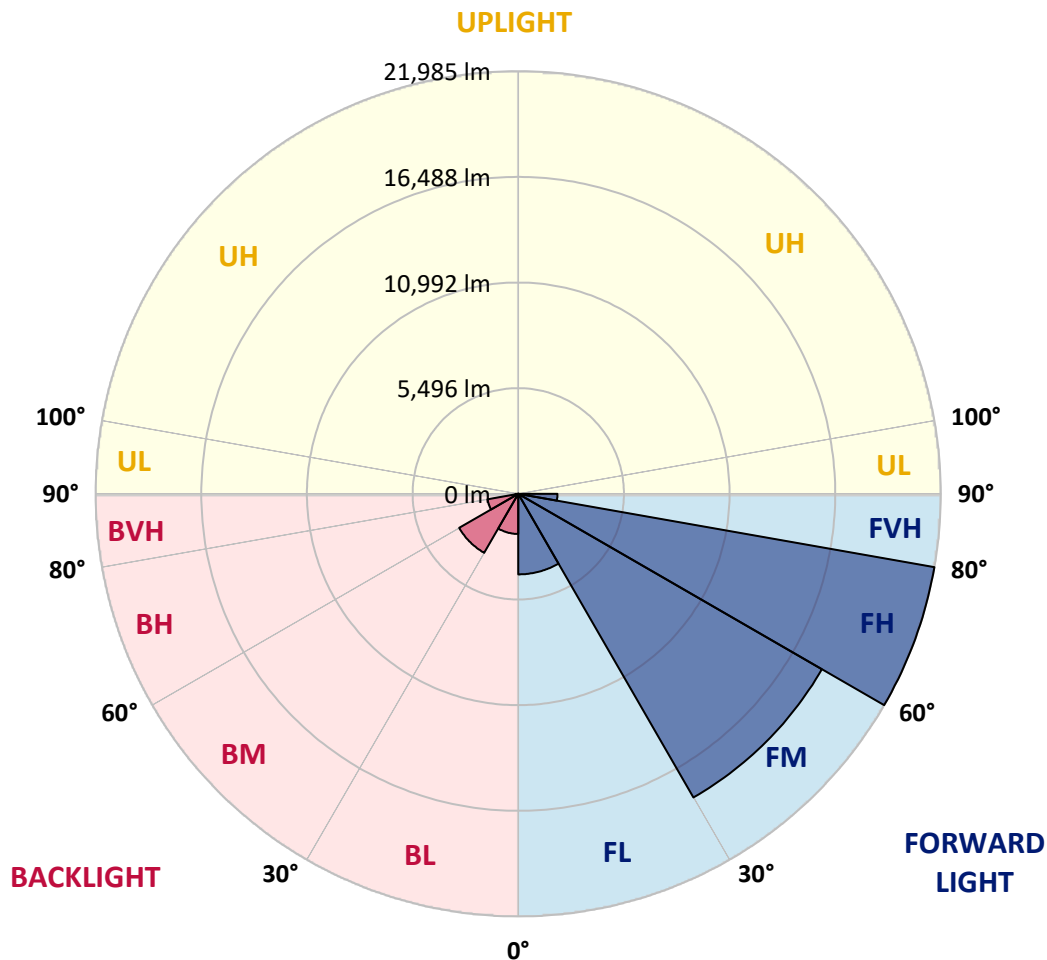
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4191.3	7.8			
FM (30°-60°)	18238.8	33.9			
FH (60°-80°)	21984.5	40.8			G5
FVH (80°-90°)	2038.1	3.8			G5
BL (0°-30°)	2087.6	3.9	B3/2500		
BM (30°-60°)	3546.6	6.6	B3/5000		
BH (60°-80°)	1629.1	3.0	B3/2500		G3/2500
BVH (80°-90°)	148.0	0.3			G2/225
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°	35°	37°	45°	55°	65°	75°	85°
0°	9490.6	9490.6	9490.6	9490.6	9490.6	9490.6	9490.6	9490.6	9490.6	9490.6	9490.6
2.5°	9815.1	9817.0	9815.1	9799.9	9763.8	9733.5	9708.8	9672.8	9593.1	9532.4	9441.3
5°	9908.0	9896.7	9889.1	9860.6	9803.7	9769.5	9722.1	9653.8	9522.9	9401.5	9253.5
7.5°	9864.4	9851.1	9834.1	9799.9	9735.4	9706.9	9640.5	9551.3	9393.9	9234.5	9022.0
10°	9729.7	9725.9	9718.3	9710.7	9655.7	9632.9	9572.2	9477.3	9321.8	9128.2	8879.7
12.5°	9579.8	9589.3	9619.6	9659.5	9634.8	9623.4	9585.5	9521.0	9361.6	9152.9	8853.1
15°	9484.9	9511.5	9593.1	9697.4	9718.3	9714.5	9705.0	9663.3	9494.4	9262.9	8913.8
17.5°	9452.7	9496.3	9651.9	9824.6	9885.3	9898.6	9902.4	9830.3	9642.4	9397.7	8976.4
20°	9511.5	9566.5	9794.2	10031.4	10128.1	10135.7	10118.7	9993.4	9782.8	9513.4	9010.6
22.5°	9689.9	9739.2	10023.8	10291.3	10401.4	10412.7	10361.5	10171.8	9930.8	9650.0	9058.0
25°	10033.3	10094.0	10378.6	10646.1	10703.0	10704.9	10630.9	10395.7	10124.3	9841.6	9160.5
27.5°	10481.1	10541.8	10797.9	11059.8	11029.4	11012.3	10911.8	10676.5	10376.7	10105.4	9342.6
30°	10980.1	11046.5	11289.3	11475.3	11403.2	11369.0	11287.4	10983.9	10727.7	10465.9	9621.5
32.5°	11496.1	11556.9	11769.4	11896.5	11805.4	11790.2	11666.9	11389.9	11185.0	11016.1	10073.1
35°	12025.5	12069.1	12277.9	12350.0	12228.5	12224.7	12190.6	11936.3	11807.3	11887.0	10729.6
37.5°	12566.3	12577.6	12756.0	12759.8	12723.7	12738.9	12775.0	12615.6	12651.6	12900.2	11583.4
40°	13048.2	13078.5	13207.6	13247.4	13310.0	13363.2	13543.4	13439.0	13718.0	14158.2	12645.9
42.5°	13404.9	13463.7	13670.5	13773.0	13976.0	14059.5	14313.7	14410.5	14972.1	15632.4	13909.6
45°	13706.6	13797.7	14129.7	14340.3	14683.7	14829.8	15194.1	15518.6	16389.5	17231.9	15239.6
47.5°	14032.9	14148.7	14564.2	14966.4	15433.2	15598.3	16260.4	16746.2	17901.7	18840.9	16493.8
50°	14513.0	14602.1	15008.2	15640.0	16222.5	16435.0	17351.4	18047.8	19438.5	20373.9	17581.0
52.5°	15182.7	15148.6	15492.0	16378.1	17159.8	17421.6	18516.4	19432.8	20996.3	21760.9	18499.3
55°	15856.3	15799.4	16040.3	17150.3	18252.7	18527.8	19799.0	20823.6	22478.1	23009.4	19203.2
57.5°	16605.8	16497.6	16700.6	18021.2	19497.3	19825.6	21235.3	22301.6	23935.3	24018.8	19651.0
60°	17378.0	17231.9	17459.6	19100.8	21077.8	21464.9	22916.4	23743.6	25309.0	24827.0	19795.2
62.5°	18053.4	17951.0	18302.0	20305.6	22859.5	23284.5	24567.1	25276.7	26663.7	25162.9	19275.3
65°	18643.5	18660.6	19267.8	21660.3	24846.0	25299.5	26460.7	27166.5	27730.0	24963.7	18059.1
67.5°	19347.4	19444.2	20480.2	23443.9	27346.7	27843.9	29215.7	29227.0	28325.8	23794.9	15664.7
70°	20373.9	20573.1	22148.0	25918.0	30902.4	31585.5	32644.2	30437.6	27489.0	20626.3	12325.3
72.5°	21284.7	21656.5	23922.0	28748.9	35236.0	35754.0	34649.7	29739.3	23992.2	15457.8	7678.6
74°	20914.7	21375.7	24244.6	30143.5	36867.7	37116.3	33972.4	27701.6	20003.9	10704.9	4462.6
75°	20117.8	20618.7	23774.0	30130.2	36660.9	36522.4	32336.8	25373.5	16474.8	7301.1	2969.4
77.5°	16235.8	16765.1	20032.4	25823.2	30060.0	29929.1	24840.3	17021.3	7215.7	2394.5	1508.4
80°	9439.4	9843.5	12435.3	16398.9	20269.6	20506.7	16336.3	8422.4	2838.5	1345.2	1022.7
82.5°	4193.2	4472.1	6007.1	8371.2	12232.3	12537.8	8555.2	4413.3	1753.2	817.8	614.7
85°	2751.2	2958.0	3646.7	3986.4	5824.9	6033.6	4187.5	3436.1	1157.4	449.7	451.6
87.5°	1979.0	2178.2	2709.4	2366.0	2673.4	2531.1	2278.7	3180.0	464.9	256.1	151.8
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°	9490.6	9490.6	9490.6	9490.6	9490.6	9490.6	9490.6	9490.6	9490.6	9490.6	9490.6
2.5°	9401.5	9371.1	9302.8	9173.8	9101.7	9041.0	8940.4	8881.6	8855.0	8853.1	8864.5
5°	9168.1	9097.9	8921.4	8705.1	8532.5	8375.0	8179.5	8061.9	7978.4	7929.1	7942.4
7.5°	8896.8	8786.7	8509.7	8164.4	7887.4	7581.9	7280.2	7099.9	6959.5	6855.2	6874.2
10°	8710.8	8559.0	8154.9	7657.8	7196.7	6752.7	6337.2	6088.6	5891.3	5739.5	5750.9
12.5°	8648.2	8443.3	7883.6	7219.5	6572.5	5965.3	5422.7	5041.3	4838.3	4665.6	4678.9
15°	8657.7	8382.6	7655.9	6824.8	6010.9	5246.2	4587.8	4142.0	3866.8	3747.3	3749.2
17.5°	8665.3	8312.4	7416.8	6401.7	5454.9	4574.6	3859.2	3407.7	3147.7	3037.7	3039.6
20°	8640.6	8198.5	7120.8	5916.0	4874.3	3957.9	3265.4	2882.1	2684.8	2599.4	2599.4
22.5°	8608.4	8063.8	6786.9	5428.4	4301.3	3422.8	2840.4	2548.2	2434.3	2377.4	2375.5
25°	8623.5	7963.2	6445.4	4927.5	3773.9	2995.9	2557.7	2364.1	2288.2	2252.2	2250.3
27.5°	8705.1	7915.8	6130.4	4428.5	3312.8	2675.3	2367.9	2231.3	2182.0	2159.2	2159.2
30°	8853.1	7915.8	5802.1	4003.4	2929.5	2438.1	2221.8	2128.8	2094.7	2079.5	2079.5
32.5°	9111.2	7959.5	5485.3	3582.2	2624.1	2252.2	2100.4	2037.8	2011.2	2003.6	2003.6
35°	9555.1	8107.4	5176.0	3183.8	2377.4	2100.4	1984.6	1948.6	1929.6	1927.7	1933.4
37.5°	10179.4	8409.1	4885.7	2889.7	2202.8	1977.1	1887.9	1859.4	1848.0	1857.5	1865.1
40°	10964.9	8819.0	4622.0	2624.1	2070.0	1878.4	1798.7	1779.7	1774.0	1787.3	1798.7
42.5°	11913.6	9373.0	4405.7	2432.4	1967.6	1794.9	1722.8	1700.0	1694.3	1709.5	1724.7
45°	12940.0	9968.8	4253.9	2290.1	1887.9	1732.3	1656.4	1631.7	1620.4	1627.9	1645.0
47.5°	13873.5	10532.3	4193.2	2189.6	1812.0	1679.2	1597.6	1567.2	1548.3	1544.5	1557.7
50°	14661.0	10951.6	4221.6	2128.8	1751.3	1620.4	1540.7	1506.5	1478.0	1461.0	1470.5
52.5°	15234.0	11215.3	4248.2	2102.3	1703.8	1555.8	1478.0	1445.8	1407.8	1379.4	1379.4
55°	15649.5	11276.1	4189.4	2081.4	1667.8	1485.6	1407.8	1377.5	1339.5	1307.3	1303.5
57.5°	15812.7	11105.3	3971.2	2051.1	1643.1	1419.2	1333.8	1311.1	1278.8	1240.9	1239.0
60°	15592.6	10577.8	3550.0	1986.5	1610.9	1364.2	1259.9	1244.7	1229.5	1193.4	1191.5
62.5°	14708.4	9420.4	3005.4	1855.6	1546.4	1305.4	1191.5	1199.1	1201.0	1176.4	1172.6
65°	13105.1	7830.4	2474.2	1684.9	1449.6	1235.2	1121.3	1157.4	1178.3	1174.5	1168.8
67.5°	10775.1	6094.3	2096.6	1504.6	1322.5	1138.4	1045.4	1087.2	1104.3	1117.5	1113.8
70°	7997.4	4297.5	1734.2	1314.9	1168.8	1024.6	946.8	967.7	956.3	971.5	977.1
72.5°	4458.8	2578.5	1413.5	1125.1	1009.4	891.8	836.7	832.9	808.3	808.3	808.3
74°	2675.3	1891.7	1242.8	1007.5	912.6	804.5	757.0	740.0	717.2	719.1	717.2
75°	2151.6	1626.0	1140.3	929.7	844.3	753.3	705.8	683.1	666.0	666.0	664.1
77.5°	1358.5	1235.2	918.3	740.0	675.5	620.4	588.2	557.8	557.8	555.9	554.0
80°	1026.5	982.8	715.3	559.7	518.0	476.2	455.4	442.1	442.1	447.8	445.9
82.5°	703.9	740.0	502.8	390.9	370.0	339.6	335.8	337.7	332.0	324.4	322.6
85°	514.2	555.9	339.6	246.7	225.8	206.8	222.0	229.6	220.1	203.0	195.4
87.5°	197.3	364.3	182.1	102.5	94.9	81.6	94.9	98.7	106.3	83.5	85.4
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)