

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: P318353

Luminaire Tested: **GAN-SA9A-730-U-T3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P318353  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA9A-730-U-T3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37948 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

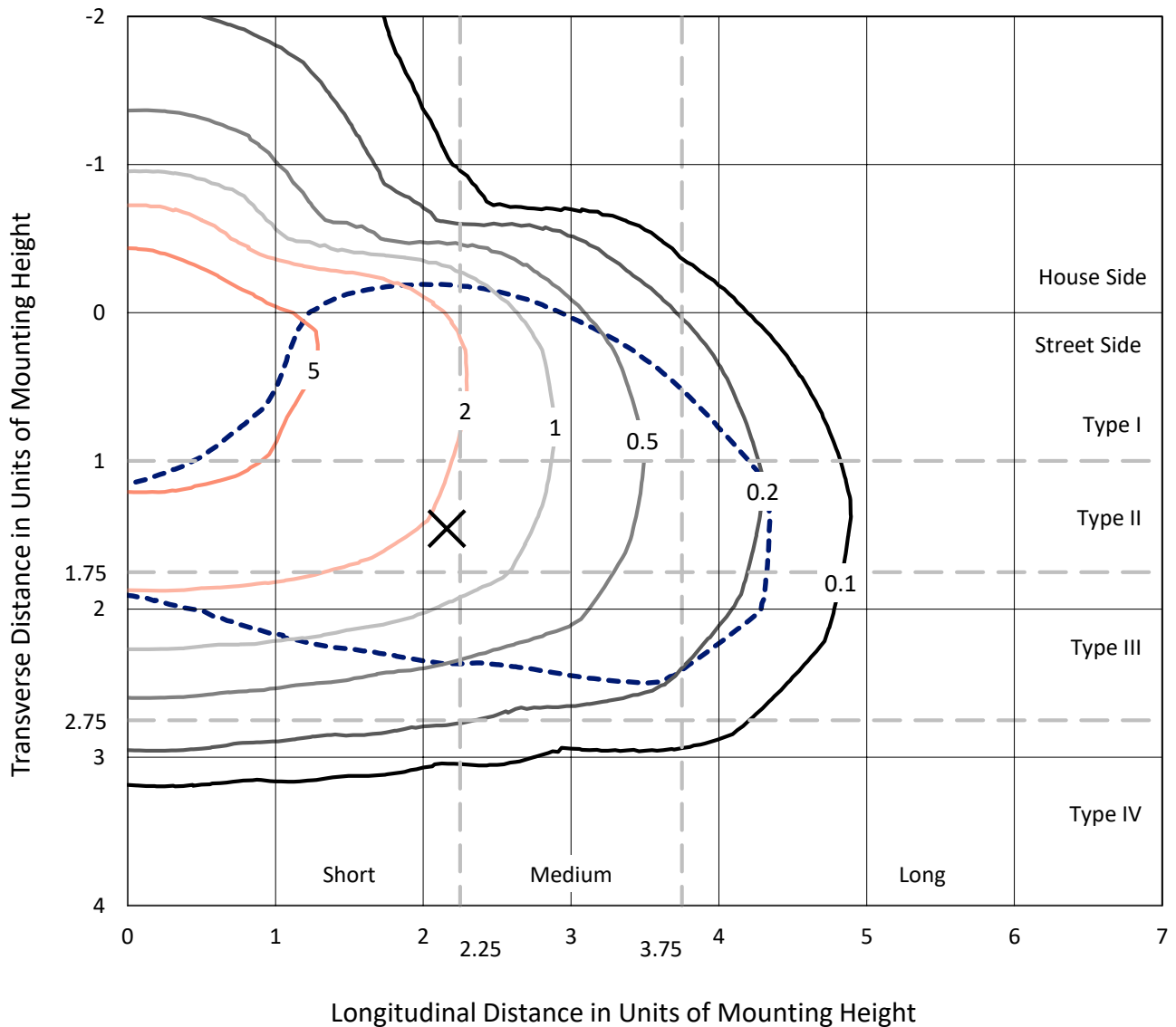
Input Watts (W): 290  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

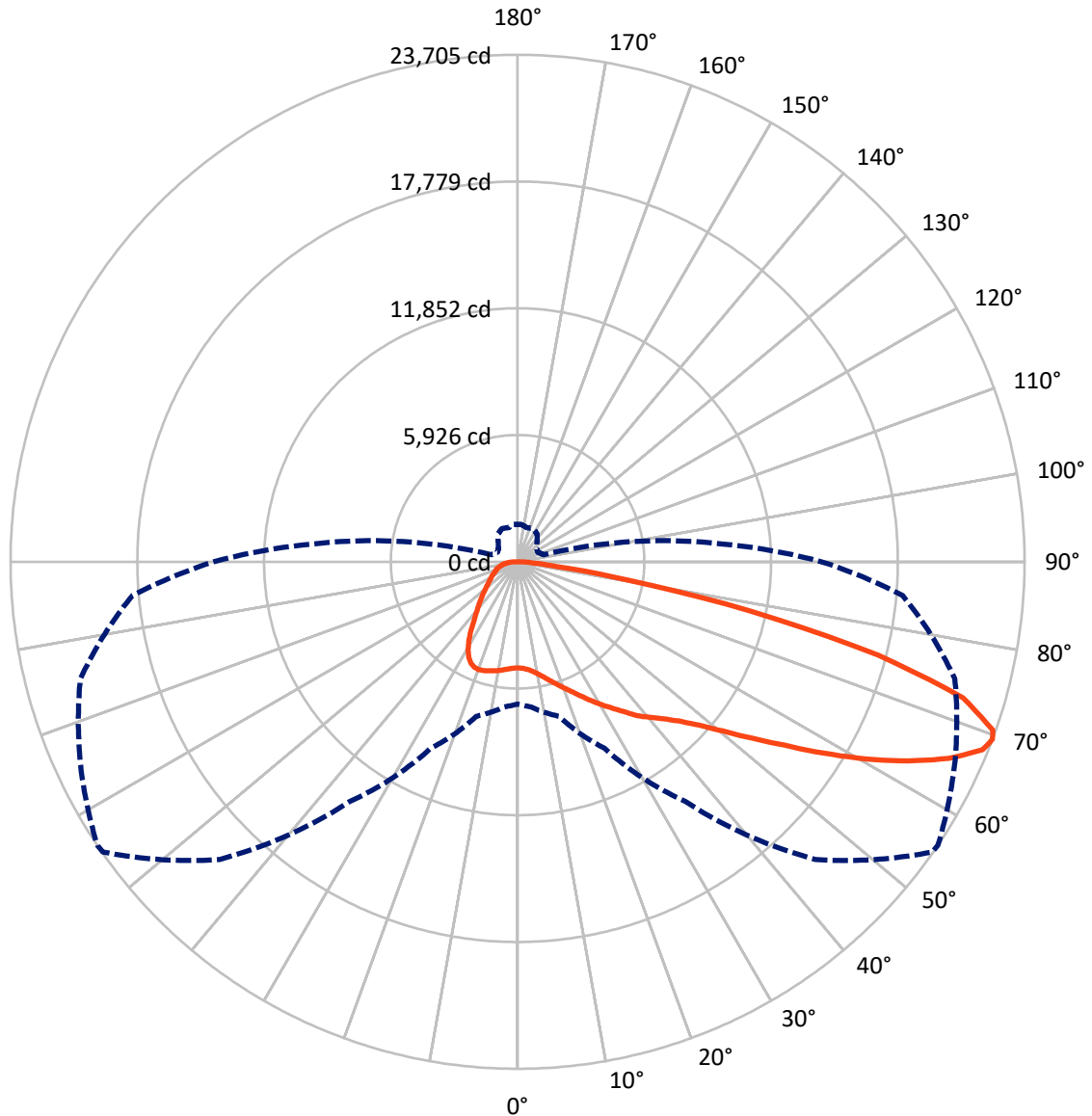
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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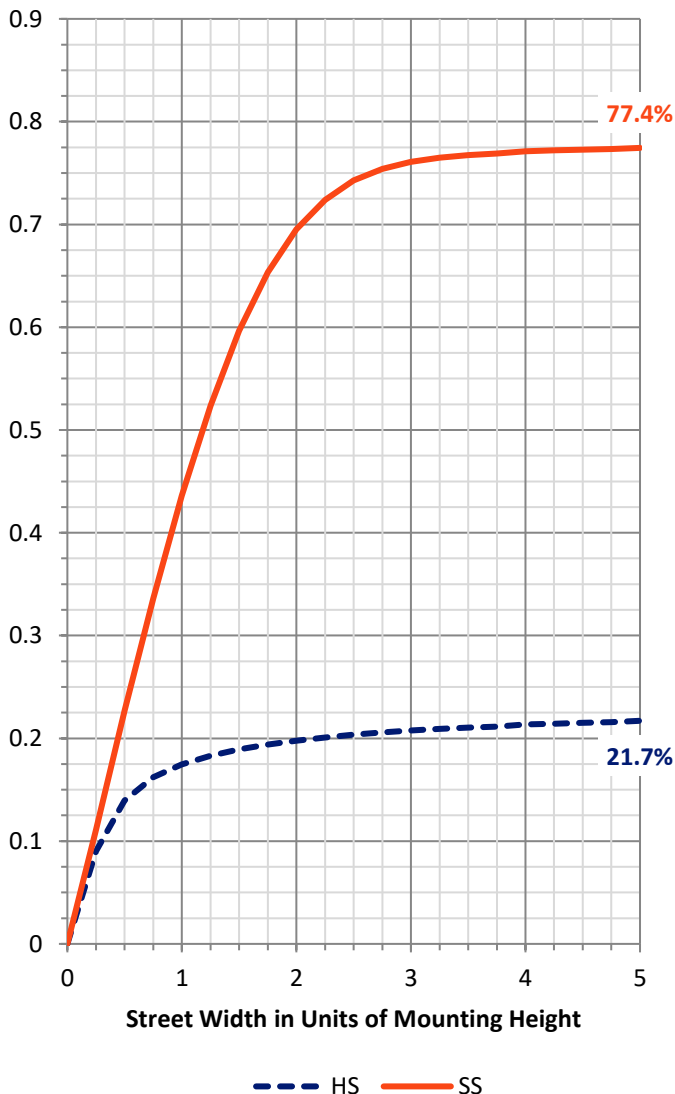
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8450.9	0.0	8450.9
	% Fixture	22.3	0.0	22.3
<b>Street Side</b>	Lumens	29497.0	0.0	29497.0
	% Fixture	77.7	0.0	77.7
<b>Total</b>	Lumens	37948.0	0.0	37948.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	487.3	1.3
10°-20°	1566.8	4.1
20°-30°	2735.1	7.2
30°-40°	3928.9	10.4
40°-50°	5437.3	14.3
50°-60°	7966.5	21.0
60°-70°	9712.6	25.6
70°-80°	5369.8	14.2
80°-90°	743.7	2.0
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°	37948.0	100.0
0°-180°	37948.0	100.0

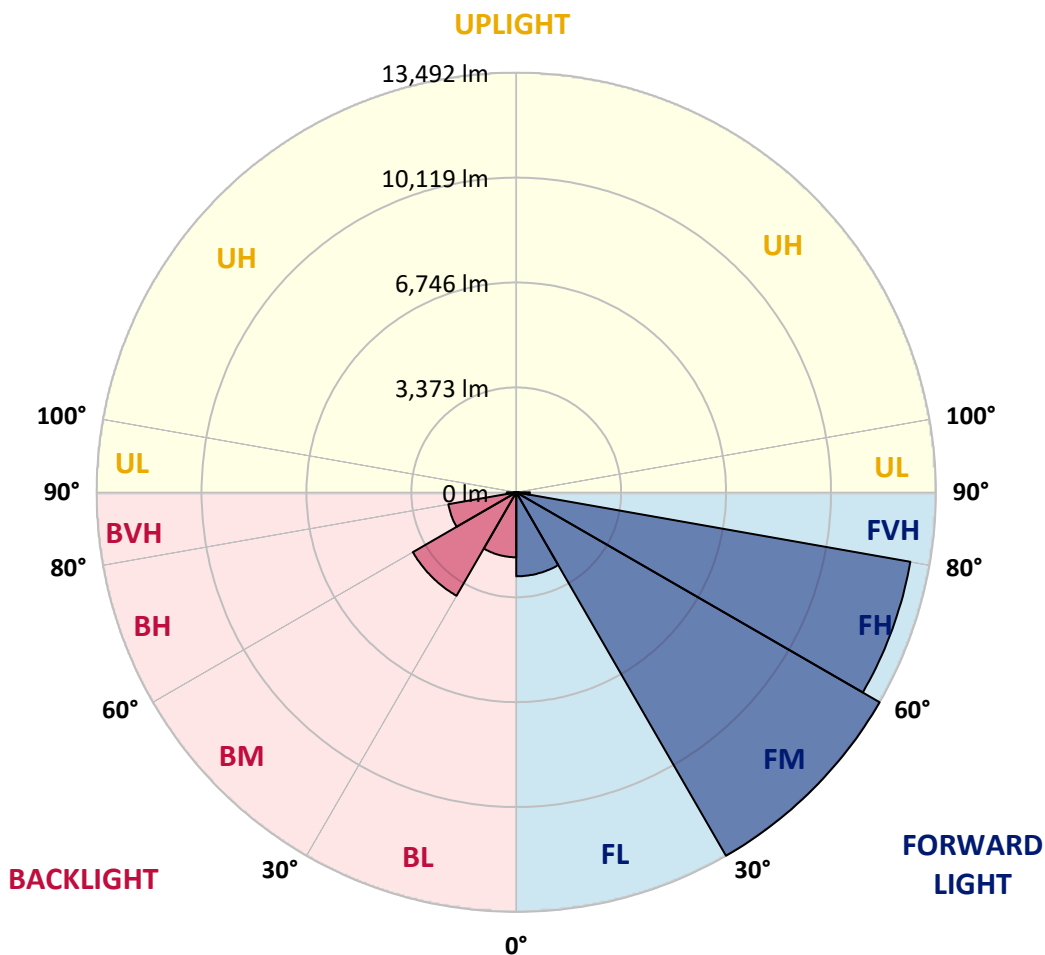


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2700.8	7.1			
FM (30°-60°)	13491.9	35.6			
FH (60°-80°)	12866.3	33.9			G5
FVH (80°-90°)	438.1	1.2			G3/500
BL (0°-30°)	2088.4	5.5	B3/2500		
BM (30°-60°)	3840.8	10.1	B3/5000		
BH (60°-80°)	2216.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	305.6	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4961.1	4961.1	4961.1	4961.1	4961.1	4961.1	4961.1	4961.1	4961.1	4961.1	4961.1
2.5°	4992.5	4997.7	4993.8	5004.3	4992.5	5000.3	4993.8	4993.8	4989.9	4978.1	4965.1
5°	5070.9	5081.4	5074.9	5085.3	5070.9	5073.6	5061.8	5061.8	5050.0	5025.2	4999.0
7.5°	5193.8	5205.6	5200.4	5210.8	5191.2	5191.2	5175.5	5174.2	5150.7	5110.2	5080.1
10°	5340.2	5355.9	5350.7	5366.4	5350.7	5355.9	5340.2	5340.2	5308.9	5251.3	5213.4
12.5°	5553.3	5572.9	5558.6	5557.2	5550.7	5561.2	5548.1	5545.5	5516.7	5438.3	5386.0
15°	5838.3	5859.2	5829.2	5826.5	5789.9	5786.0	5786.0	5782.1	5763.8	5669.7	5583.4
17.5°	6166.4	6173.0	6146.8	6105.0	6057.9	6027.9	6023.9	6034.4	6034.4	5924.6	5787.3
20°	6488.0	6499.8	6478.9	6431.8	6371.7	6327.2	6295.9	6316.8	6315.5	6184.7	5990.0
22.5°	6838.4	6865.8	6834.5	6774.3	6703.7	6654.1	6599.2	6617.5	6618.8	6458.0	6188.7
25°	7292.0	7267.2	7247.6	7162.6	7061.9	7010.9	6960.0	6978.3	6973.0	6752.1	6393.9
27.5°	7693.3	7698.6	7672.4	7582.2	7465.9	7353.5	7350.8	7362.6	7343.0	7058.0	6587.4
30°	8160.0	8162.7	8126.1	8045.0	7918.2	7773.1	7739.1	7758.7	7716.9	7348.2	6791.3
32.5°	8624.1	8637.2	8596.7	8498.6	8396.7	8220.2	8152.2	8165.3	8060.7	7645.0	7001.8
35°	9030.7	9049.0	9035.9	8970.6	8859.4	8707.8	8626.7	8618.9	8489.5	8008.4	7280.2
37.5°	9445.1	9462.1	9447.7	9392.8	9348.4	9187.6	9144.4	9144.4	8919.6	8379.7	7634.5
40°	9871.3	9897.4	9880.4	9804.6	9766.7	9693.5	9590.2	9565.4	9322.2	8825.5	8212.3
42.5°	10267.4	10301.4	10369.3	10324.9	10247.8	10258.2	10050.4	10037.3	9859.5	9484.3	8937.9
45°	10829.5	10879.2	10994.2	10960.2	10944.6	10887.0	10640.0	10628.2	10560.2	10370.7	9838.6
47.5°	11442.6	11510.6	11718.5	11725.0	11893.6	11785.1	11449.2	11408.6	11424.3	11432.2	10938.0
50°	12007.4	12081.9	12423.1	12583.9	12981.3	13004.8	12467.5	12430.9	12492.4	12672.8	12219.2
52.5°	12458.4	12552.5	12978.7	13475.4	14156.5	14350.0	13721.2	13693.8	13739.5	14050.7	13667.6
55°	12789.1	12891.1	13355.2	14259.8	15347.5	15688.7	15164.5	15138.3	15167.1	15563.2	15242.9
57.5°	12866.3	12891.1	13564.3	14788.0	16352.8	17172.4	16930.6	16878.3	16737.1	17082.2	16981.6
60°	12504.1	12603.5	13391.8	14973.6	17130.6	18635.3	18776.5	18711.1	18315.0	18597.4	18516.3
62.5°	11769.4	11947.2	12747.3	14691.2	17435.2	19830.1	20587.1	20508.6	19826.2	20009.2	19619.7
65°	10569.4	10645.2	11485.8	13717.3	17048.2	20594.9	22201.5	22162.3	21303.4	21017.1	19823.6
67.5°	8422.8	8565.3	9279.1	11681.9	15465.1	20504.7	23450.0	23446.1	22268.2	21391.0	19100.7
69°	6654.1	6801.8	7481.6	9622.9	13684.6	19679.8	23659.2	23704.9	22540.1	21163.6	18067.9
70°	5304.9	5476.2	5942.9	8105.1	12104.1	18592.1	23485.3	23567.7	22487.8	20788.4	17114.9
72.5°	2257.7	2396.2	2728.3	4178.1	7377.0	13883.3	21473.4	21784.5	21276.0	19026.2	14144.8
75°	985.7	1028.8	1179.2	1703.4	3274.7	7556.1	16822.1	17397.3	18192.1	16082.2	10536.7
77.5°	721.6	739.9	822.3	1000.1	1469.4	2853.8	10817.7	11152.4	13119.9	11702.8	6463.2
80°	558.2	571.3	635.3	734.7	959.5	1154.3	4933.7	5221.3	7377.0	6010.9	2691.7
82.5°	444.5	453.6	498.1	541.2	662.8	699.4	1638.0	1817.1	2723.1	1660.2	712.5
85°	413.1	423.6	439.2	394.8	424.9	410.5	708.5	741.2	822.3	652.3	298.1
87.5°	186.9	220.9	435.3	307.2	226.2	180.4	290.2	303.3	341.2	342.5	132.0
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°	4961.1	4961.1	4961.1	4961.1	4961.1	4961.1	4961.1	4961.1	4961.1	4961.1	4961.1
2.5°	4972.9	4969.0	4975.5	4959.8	4979.4	4978.1	4971.6	4974.2	4987.3	4986.0	4987.3
5°	5003.0	5000.3	5008.2	4996.4	5020.0	5027.8	5029.1	5040.9	5055.3	5059.2	5059.2
7.5°	5078.8	5078.8	5082.7	5067.0	5082.7	5081.4	5074.9	5086.6	5101.0	5102.3	5101.0
10°	5209.5	5210.8	5204.3	5163.8	5150.7	5115.4	5082.7	5084.0	5102.3	5116.7	5120.6
12.5°	5374.2	5369.0	5340.2	5265.7	5210.8	5138.9	5104.9	5103.6	5121.9	5133.7	5137.6
15°	5562.5	5548.1	5473.6	5352.0	5255.3	5184.7	5129.8	5116.7	5106.2	5093.2	5094.5
17.5°	5740.3	5707.6	5583.4	5414.8	5312.8	5218.7	5112.8	5027.8	4969.0	4935.0	4924.5
20°	5920.7	5856.6	5677.5	5473.6	5344.2	5172.9	4969.0	4796.4	4689.2	4639.5	4630.4
22.5°	6085.4	5982.1	5765.1	5535.0	5319.3	5018.7	4698.4	4447.4	4298.3	4231.7	4236.9
25°	6246.2	6102.4	5856.6	5578.2	5193.8	4746.7	4321.9	4013.4	3840.8	3766.3	3763.7
27.5°	6387.4	6224.0	5956.0	5542.9	4959.8	4359.8	3876.1	3575.4	3431.6	3367.6	3357.1
30°	6549.5	6376.9	6088.0	5408.2	4617.3	3912.7	3440.8	3229.0	3127.0	3063.0	3051.2
32.5°	6746.9	6584.8	6196.5	5163.8	4179.4	3446.0	3100.9	2953.1	2860.3	2788.4	2775.4
35°	7034.5	6859.3	6224.0	4813.4	3698.3	3077.3	2851.2	2699.5	2574.0	2481.2	2472.1
37.5°	7395.3	7203.1	6161.2	4359.8	3231.6	2838.1	2643.3	2456.4	2293.0	2162.2	2141.3
40°	7915.6	7625.4	5987.3	3836.9	2887.8	2653.8	2440.7	2227.6	2025.0	1872.0	1842.0
42.5°	8540.5	8120.8	5720.7	3316.6	2635.5	2466.8	2239.4	1975.3	1781.8	1673.3	1657.6
45°	9335.3	8635.9	5350.7	2861.6	2387.1	2279.9	2022.4	1779.2	1658.9	1579.2	1566.1
47.5°	10242.5	9213.7	4962.4	2491.7	2176.6	2104.7	1848.5	1691.6	1596.2	1533.4	1521.7
50°	11357.7	9866.0	4550.6	2188.4	1964.8	1894.2	1766.1	1643.3	1567.4	1519.1	1507.3
52.5°	12615.3	10602.0	4253.9	1949.2	1789.7	1738.7	1723.0	1617.1	1555.7	1519.1	1507.3
55°	13969.6	11351.1	3933.6	1747.8	1638.0	1652.4	1694.2	1619.7	1577.9	1533.4	1516.4
57.5°	15325.3	12125.0	3576.7	1577.9	1517.8	1588.3	1674.6	1624.9	1589.7	1546.5	1530.8
60°	16397.2	12615.3	3023.7	1435.4	1422.3	1517.8	1627.6	1585.7	1540.0	1541.3	1538.7
62.5°	16897.9	12589.1	2413.2	1308.6	1326.9	1422.3	1551.7	1524.3	1486.4	1537.4	1541.3
65°	16616.8	11961.6	1878.6	1193.5	1224.9	1323.0	1473.3	1494.2	1507.3	1605.3	1618.4
67.5°	15437.7	10740.6	1455.0	1092.9	1132.1	1255.0	1481.1	1627.6	1644.6	1747.8	1746.5
69°	14218.0	9595.4	1264.1	1040.6	1086.4	1272.0	1583.1	1712.5	1648.5	1758.3	1742.6
70°	13195.7	8689.5	1162.2	1005.3	1065.4	1302.1	1651.1	1711.2	1628.9	1723.0	1696.9
72.5°	10162.8	6251.4	985.7	939.9	994.8	1245.8	1670.7	1673.3	1583.1	1601.4	1557.0
75°	6970.4	3950.6	860.2	851.0	887.6	1123.0	1608.0	1598.8	1464.2	1438.0	1401.4
77.5°	3843.4	2006.7	730.8	766.1	790.9	994.8	1461.5	1448.5	1337.3	1282.4	1269.4
80°	1482.5	878.5	617.0	681.1	696.8	861.5	1281.1	1269.4	1176.6	1106.0	1086.4
82.5°	559.5	460.2	509.8	589.6	584.4	711.2	1085.0	1078.5	988.3	885.0	853.7
85°	258.8	275.8	403.9	486.3	448.4	526.8	868.0	879.8	770.0	647.1	647.1
87.5°	109.8	154.3	286.3	367.3	302.0	355.6	636.6	607.9	558.2	387.0	363.4
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)