

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: P319982

Luminaire Tested: **GAN-SA8D-730-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319982
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-SA8D-730-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1200mA 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: 53812 lumens
Efficiency: N/A
Efficacy: 105.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

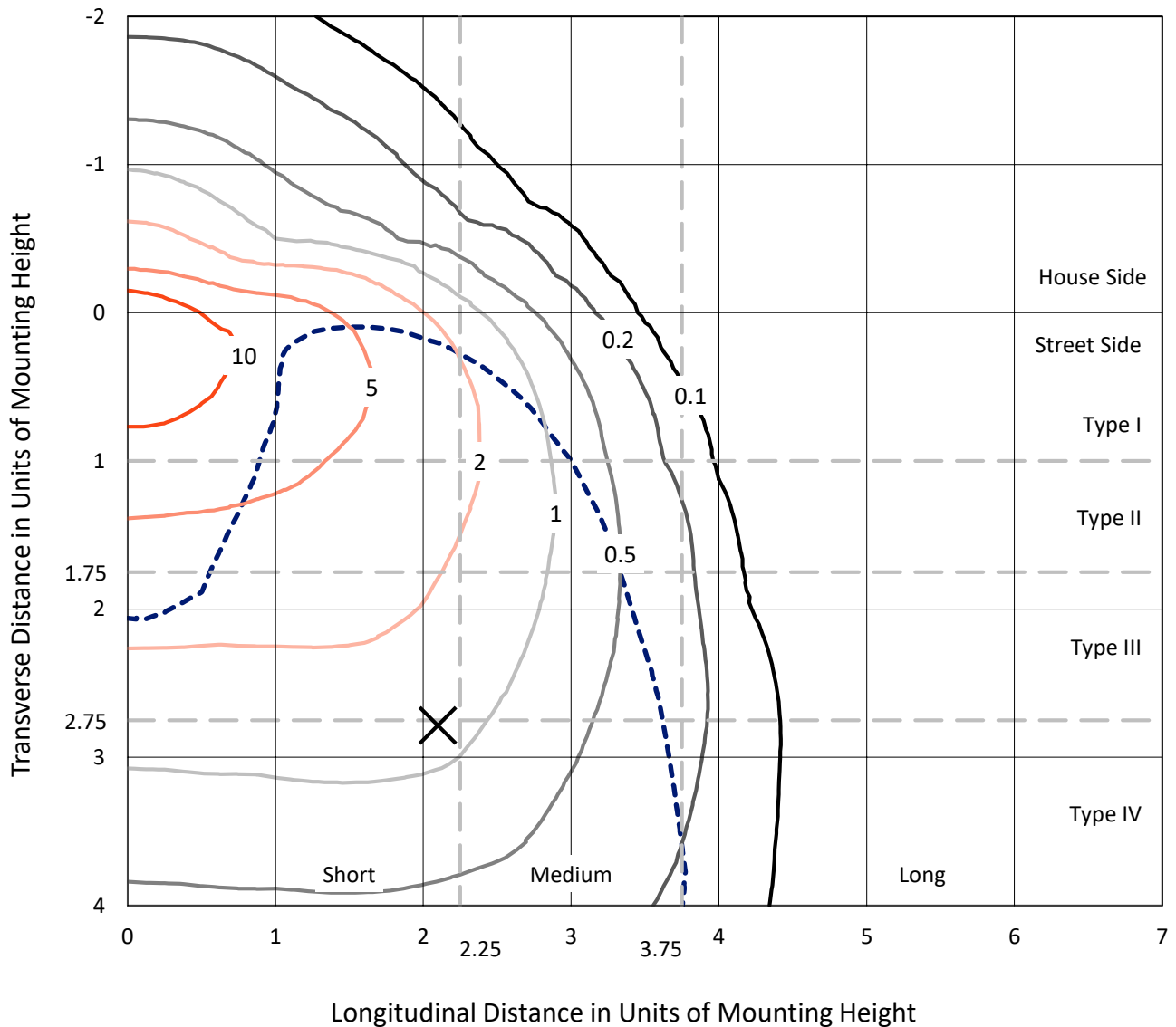
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

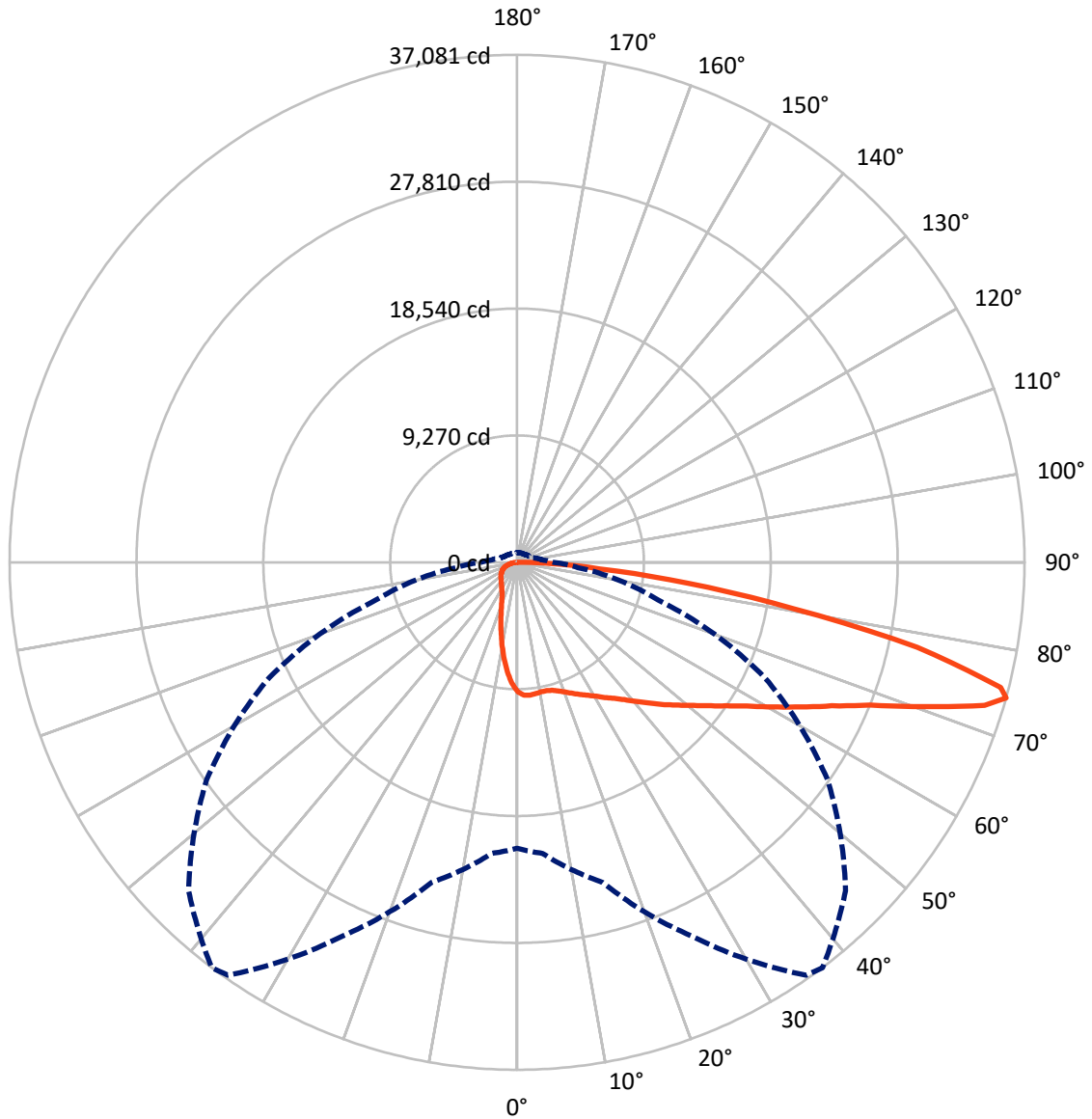
✕ Max cd
 - - - 1/2 Max cd



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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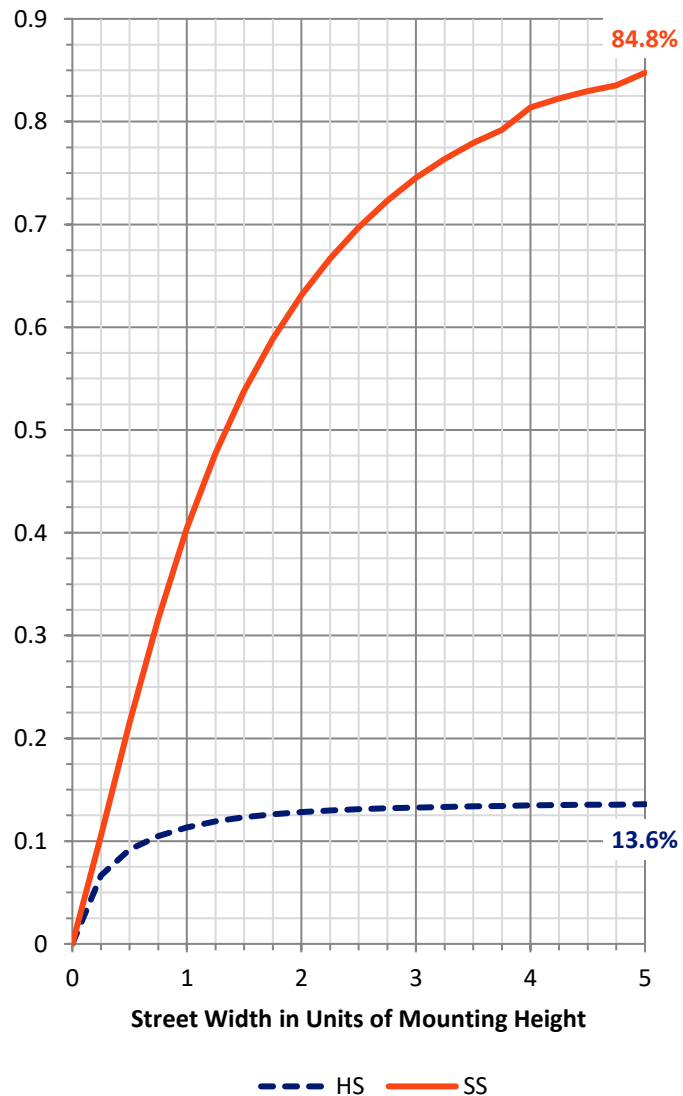
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7404.2	0.0	7404.2
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	46407.8	0.0	46407.8
	% Fixture	86.2	0.0	86.2
Total	Lumens	53812.0	0.0	53812.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	835.0	1.6
10°-20°	2140.2	4.0
20°-30°	3297.6	6.1
30°-40°	4795.2	8.9
40°-50°	7057.8	13.1
50°-60°	9911.4	18.4
60°-70°	12544.7	23.3
70°-80°	11046.1	20.5
80°-90°	2184.0	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°	53812.0	100.0
0°-180°	53812.0	100.0

Coefficient of Utilization

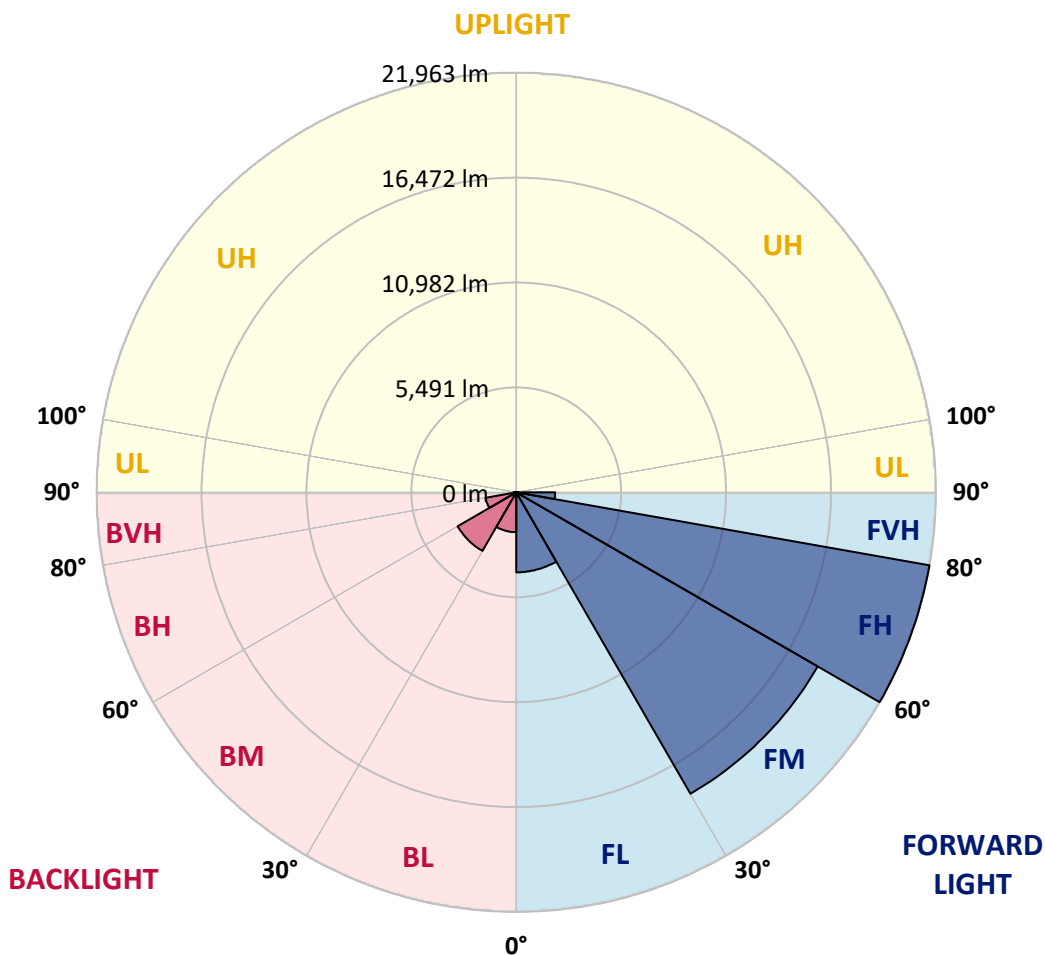


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4187.2	7.8			
FM (30°-60°)	18221.2	33.9			
FH (60°-80°)	21963.3	40.8			G5
FVH (80°-90°)	2036.2	3.8			G5
BL (0°-30°)	2085.6	3.9	B3/2500		
BM (30°-60°)	3543.2	6.6	B3/5000		
BH (60°-80°)	1627.5	3.0	B3/2500		G3/2500
BVH (80°-90°)	147.9	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°	9481.5	9481.5	9481.5	9481.5	9481.5	9481.5	9481.5	9481.5	9481.5	9481.5	9481.5
2.5°	9805.6	9807.5	9805.6	9790.4	9754.4	9724.1	9699.5	9663.4	9583.8	9523.2	9432.2
5°	9898.5	9887.1	9879.5	9851.1	9794.2	9760.1	9712.7	9644.5	9513.7	9392.4	9244.5
7.5°	9854.9	9841.6	9824.6	9790.4	9726.0	9697.6	9631.2	9542.1	9384.8	9225.6	9013.3
10°	9720.3	9716.5	9708.9	9701.3	9646.4	9623.6	9563.0	9468.2	9312.8	9119.4	8871.1
12.5°	9570.6	9580.0	9610.4	9650.2	9625.5	9614.2	9576.2	9511.8	9352.6	9144.1	8844.6
15°	9475.8	9502.3	9583.8	9688.1	9708.9	9705.1	9695.7	9654.0	9485.3	9254.0	8905.2
17.5°	9443.6	9487.2	9642.6	9815.1	9875.7	9889.0	9892.8	9820.8	9633.1	9388.6	8967.8
20°	9502.3	9557.3	9784.8	10021.7	10118.4	10125.9	10108.9	9983.8	9773.4	9504.2	9001.9
22.5°	9680.5	9729.8	10014.1	10281.4	10391.3	10402.7	10351.5	10162.0	9921.2	9640.7	9049.3
25°	10023.6	10084.2	10368.6	10635.8	10692.7	10694.6	10620.7	10385.6	10114.6	9832.1	9151.6
27.5°	10470.9	10531.6	10787.5	11049.1	11018.7	11001.7	10901.2	10666.2	10366.7	10095.6	9333.6
30°	10969.5	11035.8	11278.4	11464.2	11392.2	11358.0	11276.5	10973.3	10717.4	10455.8	9612.3
32.5°	11485.0	11545.7	11758.0	11885.0	11794.0	11778.9	11655.6	11378.9	11174.2	11005.5	10063.4
35°	12013.9	12057.5	12266.0	12338.0	12216.7	12212.9	12178.8	11924.8	11795.9	11875.5	10719.3
37.5°	12554.1	12565.5	12743.7	12747.5	12711.5	12726.6	12762.6	12603.4	12639.4	12887.7	11572.2
40°	13035.6	13065.9	13194.8	13234.6	13297.2	13350.3	13530.3	13426.1	13704.7	14144.5	12633.7
42.5°	13392.0	13450.7	13657.3	13759.7	13962.5	14045.9	14299.9	14396.6	14957.7	15617.3	13896.2
45°	13693.3	13784.3	14116.0	14326.5	14669.5	14815.5	15179.4	15503.6	16373.6	17215.2	15224.9
47.5°	14019.4	14135.0	14550.1	14952.0	15418.3	15583.2	16244.7	16730.0	17884.4	18822.7	16477.9
50°	14498.9	14588.0	14993.7	15624.9	16206.8	16419.1	17334.7	18030.3	19419.8	20354.3	17564.0
52.5°	15168.1	15134.0	15477.0	16362.3	17143.2	17404.8	18498.5	19414.1	20976.0	21739.9	18481.5
55°	15841.0	15784.1	16024.9	17133.7	18235.0	18509.9	19779.9	20803.5	22456.4	22987.2	19184.7
57.5°	16589.7	16481.7	16684.5	18003.8	19478.5	19806.4	21214.8	22280.1	23912.2	23995.6	19632.1
60°	17361.2	17215.2	17442.7	19082.4	21057.5	21444.2	22894.3	23720.7	25284.5	24803.1	19776.1
62.5°	18036.0	17933.7	18284.3	20286.0	22837.4	23262.0	24543.4	25252.3	26638.0	25138.6	19256.7
65°	18625.5	18642.6	19249.2	21639.4	24822.0	25275.1	26435.1	27140.3	27703.2	24939.6	18041.7
67.5°	19328.8	19425.4	20460.4	23421.2	27320.3	27817.0	29187.4	29198.8	28298.4	23771.9	15649.5
70°	20354.3	20553.3	22126.6	25893.0	30872.6	31555.0	32612.7	30408.2	27462.5	20606.4	12313.4
72.5°	21264.1	21635.6	23898.9	28721.1	35202.0	35719.5	34616.3	29710.6	23969.0	15442.9	7671.2
74°	20894.5	21355.1	24221.1	30114.4	36832.1	37080.5	33939.6	27674.8	19984.6	10694.6	4458.3
75°	20098.4	20598.8	23751.1	30101.1	36625.5	36487.2	32305.6	25349.0	16458.9	7294.0	2966.5
77.5°	16220.1	16748.9	20013.1	25798.2	30031.0	29900.2	24816.3	17004.8	7208.7	2392.2	1507.0
80°	9430.3	9834.0	12423.3	16383.1	20250.0	20486.9	16320.6	8414.3	2835.7	1343.9	1021.7
82.5°	4189.1	4467.8	6001.3	8363.1	12220.5	12525.7	8547.0	4409.0	1751.5	817.0	614.2
85°	2748.5	2955.1	3643.2	3982.5	5819.3	6027.8	4183.4	3432.8	1156.3	449.2	451.1
87.5°	1977.0	2176.1	2706.8	2363.7	2670.8	2528.6	2276.5	3176.9	464.4	255.9	151.6
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°	9481.5	9481.5	9481.5	9481.5	9481.5	9481.5	9481.5	9481.5	9481.5	9481.5	9481.5
2.5°	9392.4	9362.0	9293.8	9164.9	9092.9	9032.2	8931.8	8873.0	8846.5	8844.6	8855.9
5°	9159.2	9089.1	8912.8	8696.7	8524.2	8366.9	8171.7	8054.1	7970.7	7921.4	7934.7
7.5°	8888.2	8778.2	8501.5	8156.5	7879.7	7574.6	7273.2	7093.1	6952.8	6848.6	6867.5
10°	8702.4	8550.8	8147.0	7650.4	7189.8	6746.2	6331.1	6082.8	5885.6	5734.0	5745.4
12.5°	8639.8	8435.1	7875.9	7212.5	6566.1	5959.6	5417.4	5036.4	4833.6	4661.1	4674.4
15°	8649.3	8374.5	7648.5	6818.2	6005.1	5241.2	4583.4	4138.0	3863.1	3743.7	3745.6
17.5°	8656.9	8304.3	7409.6	6395.5	5449.7	4570.1	3855.5	3404.4	3144.7	3034.8	3036.6
20°	8632.3	8190.6	7113.9	5910.3	4869.6	3954.1	3262.2	2879.3	2682.2	2596.9	2596.9
22.5°	8600.0	8056.0	6780.3	5423.1	4297.2	3419.5	2837.6	2545.7	2432.0	2375.1	2373.2
25°	8615.2	7955.6	6439.1	4922.7	3770.2	2993.0	2555.2	2361.8	2286.0	2250.0	2248.1
27.5°	8696.7	7908.2	6124.5	4424.2	3309.6	2672.7	2365.6	2229.1	2179.9	2157.1	2157.1
30°	8844.6	7908.2	5796.5	3999.6	2926.7	2435.8	2219.7	2126.8	2092.7	2077.5	2077.5
32.5°	9102.4	7951.8	5480.0	3578.8	2621.5	2250.0	2098.4	2035.8	2009.3	2001.7	2001.7
35°	9545.9	8099.6	5171.0	3180.7	2375.1	2098.4	1982.7	1946.7	1927.8	1925.9	1931.6
37.5°	10169.5	8401.0	4881.0	2886.9	2200.7	1975.1	1886.1	1857.6	1846.3	1855.7	1863.3
40°	10954.3	8810.4	4617.5	2621.5	2068.0	1876.6	1797.0	1778.0	1772.3	1785.6	1797.0
42.5°	11902.1	9363.9	4401.4	2430.1	1965.7	1793.2	1721.1	1698.4	1692.7	1707.9	1723.0
45°	12927.5	9959.1	4249.8	2287.9	1886.1	1730.6	1654.8	1630.2	1618.8	1626.4	1643.4
47.5°	13860.2	10522.1	4189.1	2187.4	1810.2	1677.5	1596.0	1565.7	1546.8	1543.0	1556.2
50°	14646.8	10941.0	4217.6	2126.8	1749.6	1618.8	1539.2	1505.1	1476.6	1459.6	1469.0
52.5°	15219.3	11204.5	4244.1	2100.3	1702.2	1554.3	1476.6	1444.4	1406.5	1378.1	1378.1
55°	15634.4	11265.2	4185.3	2079.4	1666.2	1484.2	1406.5	1376.2	1338.2	1306.0	1302.2
57.5°	15797.4	11094.6	3967.4	2049.1	1641.5	1417.9	1332.6	1309.8	1277.6	1239.7	1237.8
60°	15577.5	10567.6	3546.5	1984.6	1609.3	1362.9	1258.6	1243.5	1228.3	1192.3	1190.4
62.5°	14694.2	9411.3	3002.5	1853.8	1544.9	1304.1	1190.4	1198.0	1199.9	1175.2	1171.4
65°	13092.5	7822.9	2471.8	1683.2	1448.2	1234.0	1120.3	1156.3	1177.1	1173.3	1167.6
67.5°	10764.7	6088.5	2094.6	1503.2	1321.2	1137.3	1044.4	1086.1	1103.2	1116.5	1112.7
70°	7989.7	4293.4	1732.5	1313.6	1167.6	1023.6	945.9	966.7	955.3	970.5	976.2
72.5°	4454.5	2576.0	1412.2	1124.1	1008.4	890.9	835.9	832.1	807.5	807.5	807.5
74°	2672.7	1889.8	1241.6	1006.5	911.8	803.7	756.3	739.3	716.5	718.4	716.5
75°	2149.5	1624.5	1139.2	928.8	843.5	752.5	705.1	682.4	665.3	665.3	663.4
77.5°	1357.2	1234.0	917.4	739.3	674.8	619.8	587.6	557.3	557.3	555.4	553.5
80°	1025.5	981.9	714.6	559.2	517.5	475.8	454.9	441.7	441.7	447.3	445.5
82.5°	703.2	739.3	502.3	390.5	369.6	339.3	335.5	337.4	331.7	324.1	322.2
85°	513.7	555.4	339.3	246.4	225.6	206.6	221.8	229.4	219.9	202.8	195.2
87.5°	197.1	363.9	182.0	102.4	94.8	81.5	94.8	98.6	106.1	83.4	85.3
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)