

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: P320020

Luminaire Tested: **GAN-SA6D-740-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320020
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-SA6D-740-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 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: 44097 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

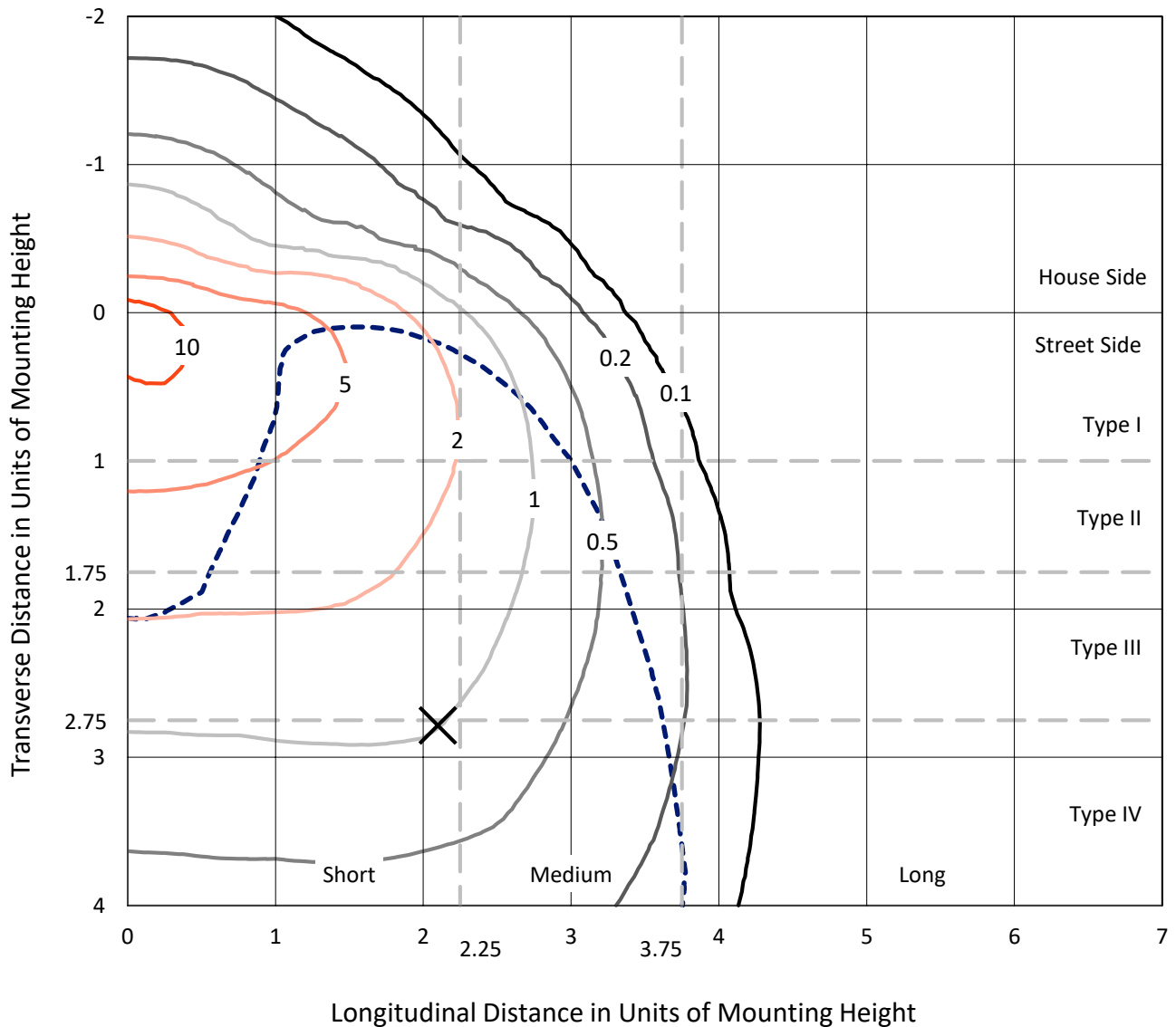
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

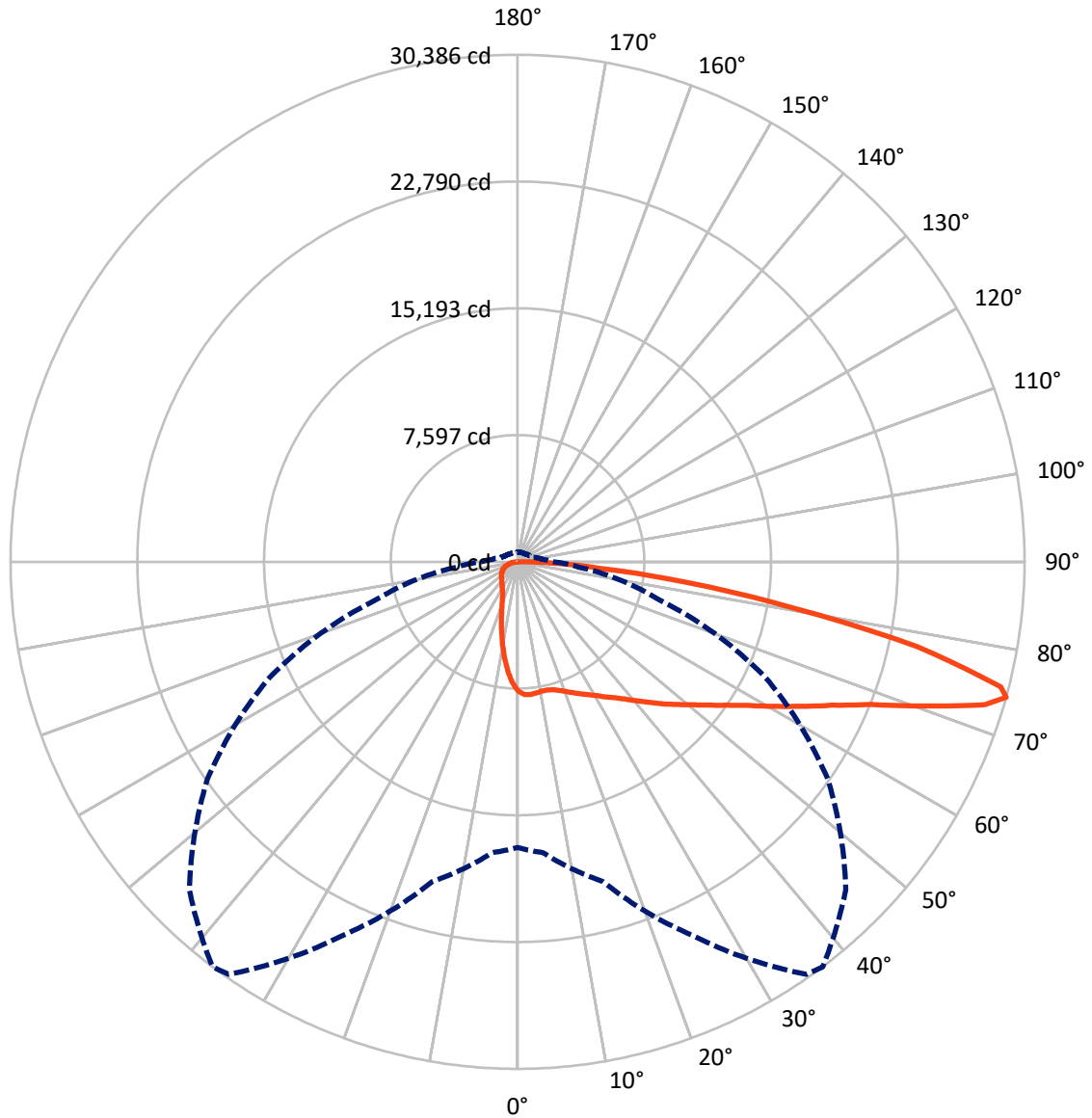
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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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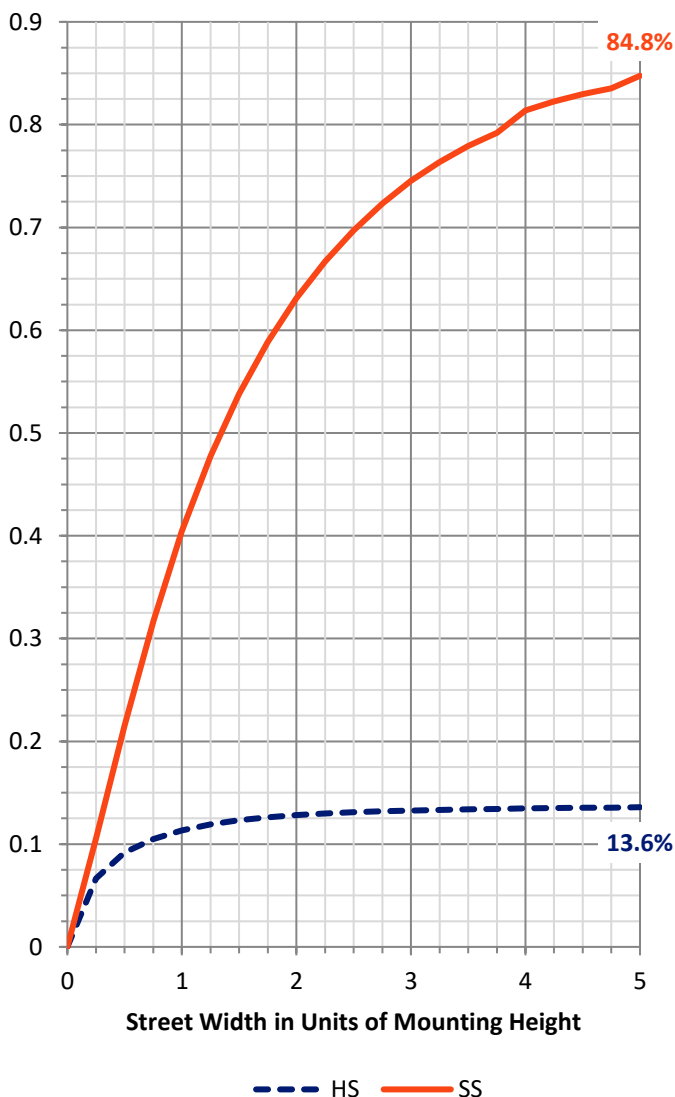
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6067.4	0.0	6067.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	38029.6	0.0	38029.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	44097.0	0.0	44097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	684.2	1.6
10°-20°	1753.8	4.0
20°-30°	2702.3	6.1
30°-40°	3929.5	8.9
40°-50°	5783.6	13.1
50°-60°	8122.0	18.4
60°-70°	10280.0	23.3
70°-80°	9051.9	20.5
80°-90°	1789.7	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°	44097.0	100.0
0°-180°	44097.0	100.0

Coefficient of Utilization

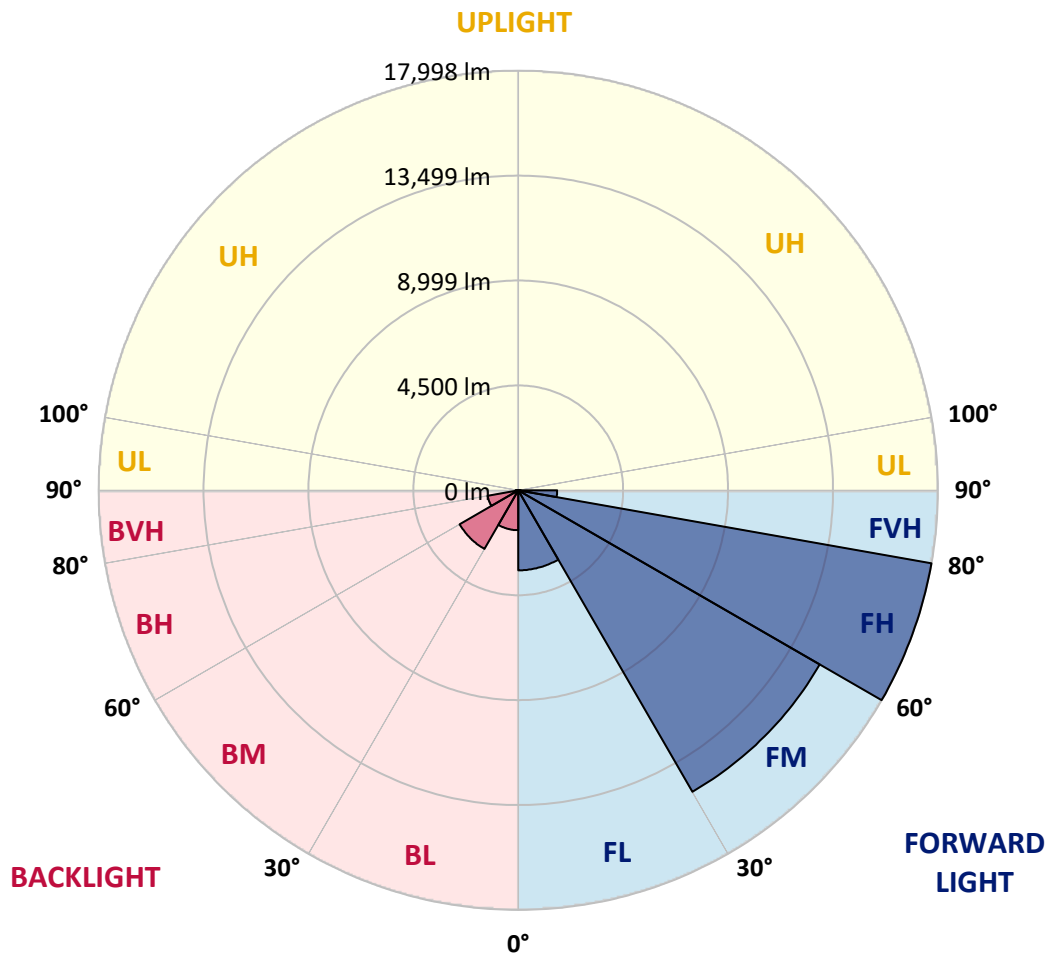


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3431.3	7.8			
FM (30°-60°)	14931.6	33.9			
FH (60°-80°)	17998.1	40.8			G5
FVH (80°-90°)	1668.6	3.8			G5
BL (0°-30°)	1709.1	3.9	B3/2500		
BM (30°-60°)	2903.5	6.6	B3/5000		
BH (60°-80°)	1333.7	3.0	B3/2500		G3/2500
BVH (80°-90°)	121.2	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°	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7
2.5°	8035.3	8036.9	8035.3	8022.9	7993.4	7968.5	7948.4	7918.8	7853.6	7803.9	7729.3
5°	8111.5	8102.1	8095.9	8072.6	8026.0	7998.1	7959.2	7903.3	7796.1	7696.7	7575.6
7.5°	8075.7	8064.9	8050.9	8022.9	7970.1	7946.8	7892.4	7819.4	7690.5	7560.0	7386.0
10°	7965.4	7962.3	7956.1	7949.9	7904.9	7886.2	7836.5	7758.8	7631.5	7473.0	7269.6
12.5°	7842.7	7850.5	7875.3	7908.0	7887.8	7878.5	7847.4	7794.6	7664.1	7493.2	7247.8
15°	7765.1	7786.8	7853.6	7939.0	7956.1	7953.0	7945.2	7911.1	7772.8	7583.3	7297.5
17.5°	7738.7	7774.4	7901.8	8043.1	8092.8	8103.7	8106.8	8047.8	7894.0	7693.6	7348.8
20°	7786.8	7831.9	8018.3	8212.4	8291.6	8297.9	8283.9	8181.4	8008.9	7788.4	7376.7
22.5°	7932.8	7973.2	8206.2	8425.2	8515.3	8524.6	8482.7	8327.4	8130.1	7900.2	7415.6
25°	8214.0	8263.7	8496.7	8715.7	8762.3	8763.8	8703.3	8510.7	8288.5	8057.1	7499.4
27.5°	8580.6	8630.3	8840.0	9054.3	9029.5	9015.5	8933.2	8740.5	8495.1	8273.0	7648.6
30°	8989.1	9043.4	9242.3	9394.5	9335.5	9307.5	9240.7	8992.2	8782.5	8568.1	7876.9
32.5°	9411.6	9461.3	9635.3	9739.3	9664.8	9652.3	9551.4	9324.6	9156.8	9018.6	8246.6
35°	9845.0	9880.7	10051.6	10110.6	10011.2	10008.1	9980.1	9772.0	9666.3	9731.6	8784.0
37.5°	10287.7	10297.0	10443.0	10446.1	10416.6	10429.0	10458.5	10328.0	10357.6	10561.0	9483.0
40°	10682.2	10707.1	10812.7	10845.3	10896.6	10940.1	11087.6	11002.2	11230.5	11590.9	10352.9
42.5°	10974.2	11022.4	11191.7	11275.6	11441.8	11510.1	11718.3	11797.5	12257.3	12797.8	11387.4
45°	11221.2	11295.8	11567.6	11740.0	12021.2	12140.8	12439.0	12704.6	13417.6	14107.3	12476.3
47.5°	11488.4	11583.1	11923.3	12252.6	12634.7	12769.9	13312.0	13709.6	14655.6	15424.5	13503.0
50°	11881.4	11954.4	12286.8	12804.0	13280.9	13454.9	14205.1	14775.2	15913.8	16679.6	14393.1
52.5°	12429.7	12401.7	12682.9	13408.3	14048.3	14262.6	15158.9	15909.1	17189.1	17815.1	15144.9
55°	12981.1	12934.5	13131.8	14040.5	14943.0	15168.2	16208.9	17047.7	18402.2	18837.1	15721.2
57.5°	13594.7	13506.1	13672.3	14753.5	15961.9	16230.7	17384.8	18257.8	19595.2	19663.5	16087.8
60°	14226.9	14107.3	14293.7	15637.3	17255.9	17572.7	18761.0	19438.3	20719.8	20325.2	16205.8
62.5°	14779.9	14696.0	14983.4	16623.7	18714.4	19062.4	20112.4	20693.4	21828.8	20600.2	15780.2
65°	15262.9	15276.9	15774.0	17732.7	20340.8	20712.0	21662.6	22240.5	22701.8	20437.1	14784.5
67.5°	15839.2	15918.5	16766.6	19192.9	22388.0	22795.0	23918.1	23927.4	23189.6	19480.2	12824.2
70°	16679.6	16842.7	18131.9	21218.4	25299.0	25858.2	26724.9	24918.4	22504.5	16886.2	10090.4
72.5°	17425.2	17729.6	19584.3	23535.9	28846.8	29270.8	28366.8	24346.8	19641.8	12654.9	6286.3
74°	17122.3	17499.7	19848.4	24677.6	30182.6	30386.1	27812.2	22678.5	16376.7	8763.8	3653.4
75°	16469.9	16880.0	19463.1	24666.8	30013.3	29899.9	26473.3	20772.6	13487.5	5977.2	2431.0
77.5°	13291.8	13725.2	16400.0	21140.7	24609.3	24502.1	20336.1	13934.9	5907.3	1960.3	1234.9
80°	7727.8	8058.6	10180.5	13425.4	16594.1	16788.3	13374.1	6895.2	2323.8	1101.3	837.2
82.5°	3432.8	3661.2	4917.8	6853.3	10014.3	10264.4	7003.9	3613.0	1435.3	669.5	503.3
85°	2252.3	2421.6	2985.5	3263.5	4768.7	4939.6	3428.2	2813.1	947.5	368.1	369.7
87.5°	1620.1	1783.2	2218.1	1937.0	2188.6	2072.1	1865.5	2603.4	380.6	209.7	124.3
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°	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7	7769.7
2.5°	7696.7	7671.9	7615.9	7510.3	7451.3	7401.6	7319.3	7271.1	7249.4	7247.8	7257.1
5°	7505.7	7448.2	7303.7	7126.6	6985.3	6856.4	6696.4	6600.1	6531.7	6491.3	6502.2
7.5°	7283.5	7193.4	6966.7	6683.9	6457.2	6207.1	5960.1	5812.5	5697.6	5612.2	5627.7
10°	7131.3	7007.0	6676.2	6269.2	5891.8	5528.3	5188.1	4984.6	4823.1	4698.8	4708.1
12.5°	7080.0	6912.3	6454.1	5910.4	5380.7	4883.6	4439.4	4127.2	3961.0	3819.6	3830.5
15°	7087.8	6862.6	6267.7	5587.3	4920.9	4294.9	3755.9	3390.9	3165.7	3067.8	3069.4
17.5°	7094.0	6805.1	6071.9	5240.9	4465.8	3745.1	3159.5	2789.8	2577.0	2486.9	2488.4
20°	7073.8	6711.9	5829.6	4843.3	3990.5	3240.2	2673.3	2359.5	2198.0	2128.1	2128.1
22.5°	7047.4	6601.6	5556.2	4444.1	3521.4	2802.2	2325.3	2086.1	1992.9	1946.3	1944.8
25°	7059.9	6519.3	5276.6	4034.0	3089.6	2452.7	2093.9	1935.4	1873.3	1843.8	1842.2
27.5°	7126.6	6480.5	5018.8	3625.5	2712.1	2190.2	1938.5	1826.7	1786.3	1767.7	1767.7
30°	7247.8	6480.5	4750.1	3277.5	2398.3	1996.0	1818.9	1742.8	1714.9	1702.4	1702.4
32.5°	7459.1	6516.2	4490.7	2932.7	2148.2	1843.8	1719.5	1668.3	1646.5	1640.3	1640.3
35°	7822.5	6637.3	4237.5	2606.5	1946.3	1719.5	1624.8	1595.3	1579.7	1578.2	1582.8
37.5°	8333.6	6884.3	3999.8	2365.7	1803.4	1618.6	1545.6	1522.3	1512.9	1520.7	1526.9
40°	8976.7	7219.8	3783.9	2148.2	1694.7	1537.8	1472.5	1457.0	1452.4	1463.2	1472.5
42.5°	9753.3	7673.4	3606.8	1991.4	1610.8	1469.4	1410.4	1391.8	1387.1	1399.5	1412.0
45°	10593.7	8161.2	3482.5	1874.9	1545.6	1418.2	1356.1	1335.9	1326.5	1332.8	1346.7
47.5°	11357.9	8622.5	3432.8	1792.5	1483.4	1374.7	1307.9	1283.0	1267.5	1264.4	1275.3
50°	12002.5	8965.8	3456.1	1742.8	1433.7	1326.5	1261.3	1233.3	1210.0	1196.1	1203.8
52.5°	12471.6	9181.7	3477.9	1721.1	1394.9	1273.7	1210.0	1183.6	1152.6	1129.3	1129.3
55°	12811.8	9231.4	3429.7	1704.0	1365.4	1216.3	1152.6	1127.7	1096.6	1070.2	1067.1
57.5°	12945.4	9091.6	3251.1	1679.1	1345.2	1161.9	1092.0	1073.3	1046.9	1015.9	1014.3
60°	12765.2	8659.8	2906.3	1626.3	1318.8	1116.8	1031.4	1019.0	1006.6	977.0	975.5
62.5°	12041.4	7712.2	2460.5	1519.1	1266.0	1068.7	975.5	981.7	983.3	963.1	960.0
65°	10728.8	6410.6	2025.5	1379.4	1186.7	1011.2	918.0	947.5	964.6	961.5	956.8
67.5°	8821.3	4989.3	1716.4	1231.8	1082.7	932.0	855.9	890.1	904.0	914.9	911.8
70°	6547.3	3518.3	1419.7	1076.5	956.8	838.8	775.1	792.2	782.9	795.3	800.0
72.5°	3650.3	2111.0	1157.2	921.1	826.4	730.1	685.0	681.9	661.7	661.7	661.7
74°	2190.2	1548.7	1017.4	824.8	747.1	658.6	619.8	605.8	587.2	588.7	587.2
75°	1761.5	1331.2	933.5	761.1	691.2	616.7	577.8	559.2	545.2	545.2	543.7
77.5°	1112.2	1011.2	751.8	605.8	553.0	507.9	481.5	456.7	456.7	455.1	453.6
80°	840.3	804.6	585.6	458.2	424.1	389.9	372.8	361.9	361.9	366.6	365.0
82.5°	576.3	605.8	411.6	320.0	302.9	278.0	274.9	276.5	271.8	265.6	264.1
85°	421.0	455.1	278.0	201.9	184.8	169.3	181.7	188.0	180.2	166.2	160.0
87.5°	161.5	298.2	149.1	83.9	77.7	66.8	77.7	80.8	87.0	68.3	69.9
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)