

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: P319372

Luminaire Tested: **GAN-SA8C-740-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319372
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8C-740-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55533 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

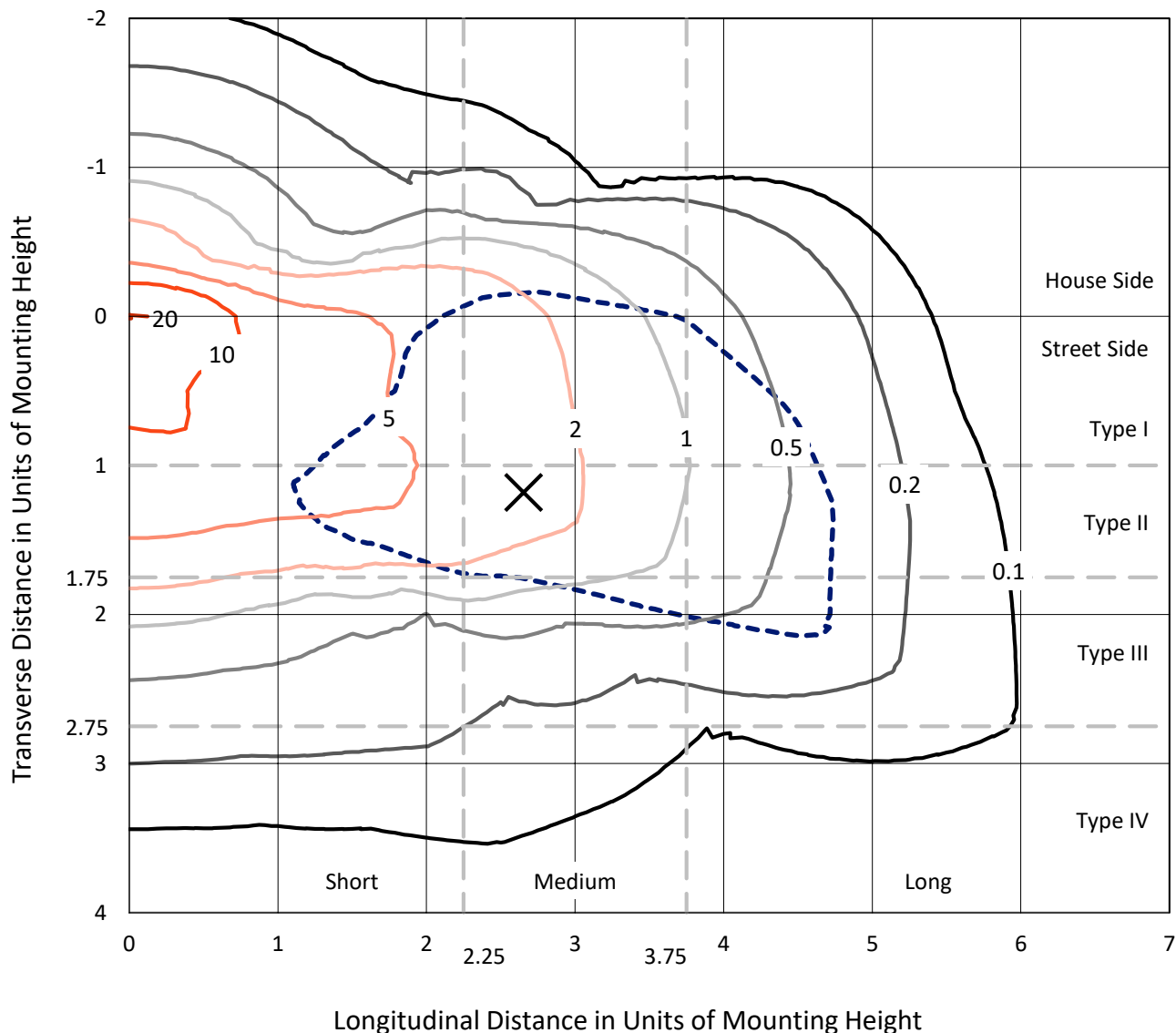
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319372
 CATALOG NUMBER: GAN-SA8C-740-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

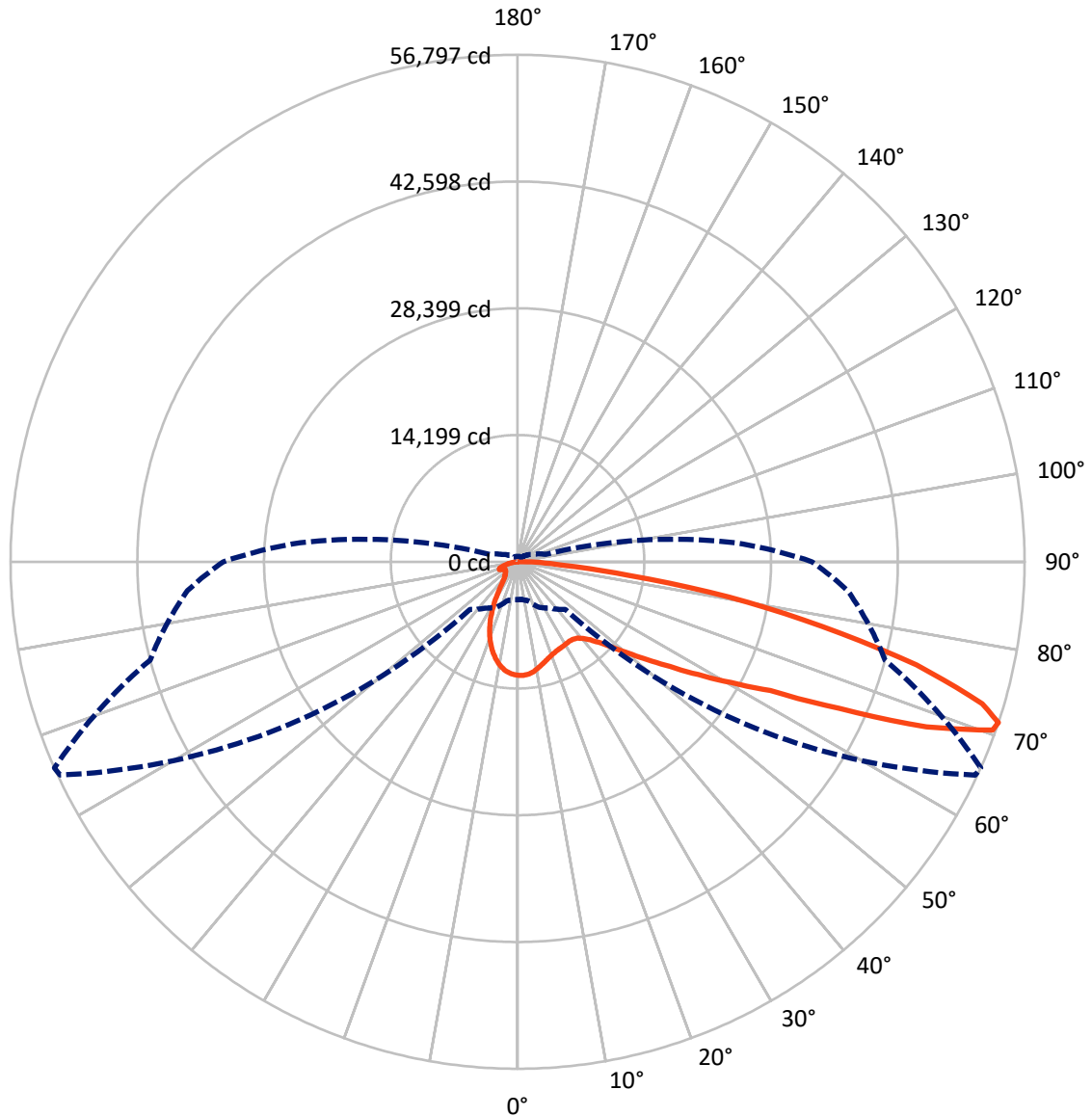
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P319372
CATALOG NUMBER: GAN-SA8C-740-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P319372
 CATALOG NUMBER: GAN-SA8C-740-U-SL2

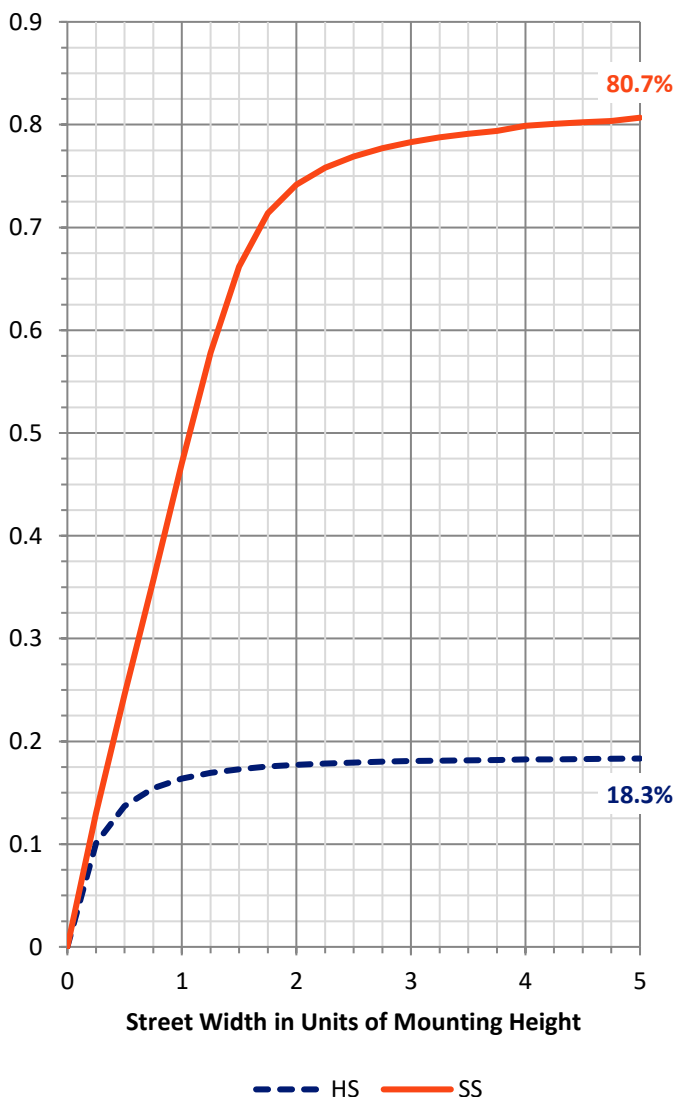
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10291.8	0.0	10291.8
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	45241.2	0.0	45241.2
	% Fixture	81.5	0.0	81.5
Total	Lumens	55533.0	0.0	55533.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1119.8	2.0
10°-20°	2685.8	4.8
20°-30°	3607.7	6.5
30°-40°	4745.8	8.5
40°-50°	6903.9	12.4
50°-60°	10784.6	19.4
60°-70°	13509.5	24.3
70°-80°	10304.7	18.6
80°-90°	1871.2	3.4
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°	55533.0	100.0
0°-180°	55533.0	100.0

Coefficient of Utilization

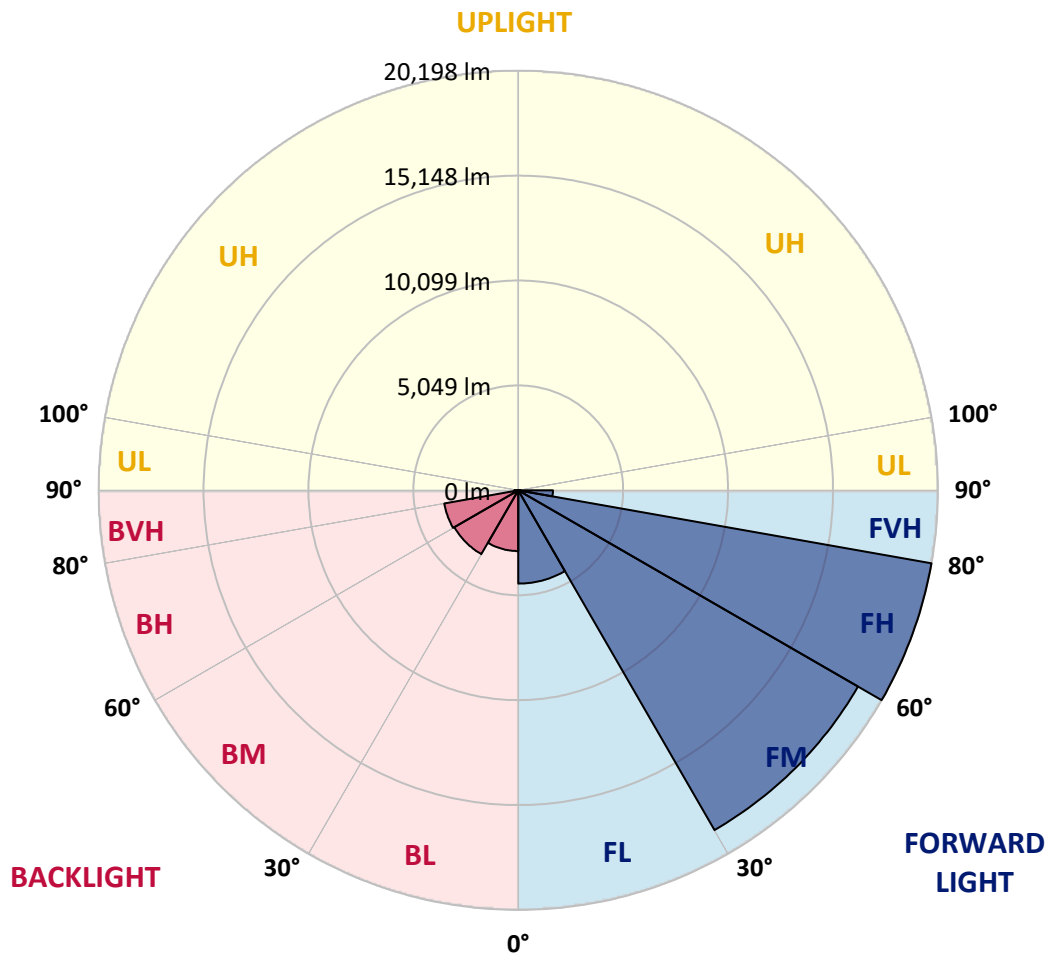


REPORT NUMBER: P319372
 CATALOG NUMBER: GAN-SA8C-740-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4490.6	8.1			
FM (30°-60°)	18884.0	34.0			
FH (60°-80°)	20197.9	36.4			G5
FVH (80°-90°)	1668.7	3.0			G5
BL (0°-30°)	2922.6	5.3	B4/5000		
BM (30°-60°)	3550.3	6.4	B3/5000		
BH (60°-80°)	3616.3	6.5	B4/5000		G4/5000
BVH (80°-90°)	202.6	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	12721.5	12721.5	12721.5	12721.5	12721.5	12721.5	12721.5	12721.5	12721.5	12721.5	12721.5
2.5°	12485.7	12466.5	12524.0	12583.5	12606.5	12644.8	12702.4	12735.0	12733.0	12738.8	12719.6
5°	11657.4	11632.5	11747.5	11841.5	12021.7	12224.9	12472.3	12648.7	12652.5	12752.2	12779.1
7.5°	10873.2	10856.0	10988.3	11139.7	11348.7	11659.3	12060.1	12439.7	12462.7	12733.0	12827.0
10°	10244.3	10240.5	10369.0	10533.9	10777.4	11124.4	11584.6	12140.6	12175.1	12641.0	12834.7
12.5°	9753.5	9761.2	9872.4	10060.3	10317.2	10679.6	11178.1	11805.0	11860.7	12495.3	12790.6
15°	9391.1	9421.8	9511.9	9701.7	9954.8	10322.9	10834.9	11494.4	11578.8	12332.3	12765.6
17.5°	9184.0	9218.6	9281.8	9439.1	9676.8	10031.5	10516.6	11239.4	11316.1	12207.7	12767.6
20°	9122.7	9151.5	9187.9	9283.7	9485.1	9807.2	10265.4	11009.4	11091.8	12108.0	12786.7
22.5°	9243.5	9264.6	9268.4	9260.7	9383.5	9646.1	10083.3	10840.6	10928.8	12042.8	12800.1
25°	9502.3	9531.1	9510.0	9439.1	9398.8	9559.8	9989.3	10729.4	10817.6	11994.9	12773.3
27.5°	9891.5	9895.4	9878.1	9786.1	9596.3	9569.4	9960.6	10664.2	10748.6	11939.3	12717.7
30°	10420.7	10445.7	10415.0	10290.4	9979.7	9722.8	9995.1	10601.0	10677.7	11868.3	12627.6
32.5°	11040.0	11101.4	11099.5	10969.1	10524.3	10066.0	10137.0	10562.6	10622.1	11793.5	12518.3
35°	11682.3	11766.7	11923.9	11868.3	11318.0	10608.6	10409.2	10624.0	10664.2	11784.0	12441.6
37.5°	12349.6	12433.9	12758.0	12907.5	12263.3	11385.2	10838.7	10840.6	10859.8	11900.9	12435.9
40°	13047.5	13137.6	13624.6	14013.8	13488.5	12368.7	11530.9	11293.1	11272.0	12188.5	12549.0
42.5°	14025.3	14105.9	14690.6	15187.2	14847.9	13628.4	12487.6	11991.0	11946.9	12752.2	12911.4
45°	15262.0	15331.0	15952.2	16483.4	16308.9	15066.4	13689.8	12951.6	12943.9	13691.7	13645.7
47.5°	16732.6	16786.3	17344.2	17858.1	17921.4	16721.1	15200.7	14433.7	14309.1	14980.2	14782.7
50°	18264.6	18324.0	18703.6	19255.8	19725.6	18935.6	17144.8	16249.4	16082.6	16680.8	16393.2
52.5°	19278.8	19357.4	19687.2	20387.1	21754.1	21363.0	19443.7	18450.5	18197.5	18742.0	18521.5
55°	18826.3	19002.7	19507.0	20628.6	23376.2	25071.1	22279.5	21017.9	20732.2	21184.7	21054.3
57.5°	16769.0	17010.6	17698.9	19430.3	23604.3	28338.3	26566.6	24041.5	23840.2	23709.8	23769.2
60°	13009.1	13241.1	14094.3	16351.1	22014.9	30723.4	33018.5	27768.8	27477.4	26244.5	26298.2
62.5°	9207.1	9090.1	9674.9	11325.7	17888.8	31003.3	40360.0	32753.9	31795.2	28921.1	28685.3
65°	7021.3	6994.4	7257.1	7782.5	10834.9	27653.8	44733.4	41132.6	39635.2	32069.4	31513.4
67.5°	5769.3	5721.3	5980.2	6745.2	6977.2	17840.8	44829.3	50853.5	49382.9	35988.4	34784.3
70°	4743.5	4689.8	4931.4	5918.8	6448.0	9047.9	37729.4	56546.1	56467.5	40950.5	37253.9
71°	4252.7	4214.3	4503.8	5600.5	6334.9	7540.9	32575.6	56561.5	56797.3	42630.1	37108.2
72.5°	3462.7	3476.1	3782.9	4985.1	6250.5	6658.9	23941.8	53925.1	54423.6	44231.1	35783.3
75°	2300.8	2312.3	2715.0	3834.7	6060.7	6515.1	13158.7	45249.2	46165.7	43272.4	32652.3
77.5°	1545.4	1541.5	1815.7	2630.6	5280.3	6515.1	7715.4	33842.9	34849.5	34431.5	25172.7
80°	1064.1	1056.5	1250.1	1815.7	3997.6	6593.7	5964.8	23717.5	24022.3	18594.3	10230.9
82.5°	651.9	657.6	816.8	1282.7	2720.7	5934.2	5631.2	12932.4	12600.7	5215.2	2555.8
85°	373.9	372.0	521.5	868.6	1746.7	5008.1	5491.3	5566.0	5105.9	1570.3	924.2
87.5°	134.2	143.8	279.9	481.3	1000.9	3487.6	4659.1	2895.2	2609.5	709.4	418.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P319372
 CATALOG NUMBER: GAN-SA8C-740-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12721.5	12721.5	12721.5	12721.5	12721.5	12721.5	12721.5	12721.5	12721.5	12721.5	12721.5
2.5°	12706.2	12717.7	12704.3	12627.6	12562.4	12456.9	12397.5	12315.1	12290.1	12278.6	12309.3
5°	12754.1	12758.0	12644.8	12443.5	12217.3	11950.8	11759.0	11523.2	11412.0	11364.1	11394.7
7.5°	12798.2	12781.0	12533.6	12148.3	11730.3	11266.3	10854.0	10476.3	10255.8	10165.7	10173.4
10°	12804.0	12731.1	12334.2	11737.9	11089.9	10409.2	9776.5	9193.6	8825.5	8585.8	8658.7
12.5°	12744.5	12621.8	12040.9	11206.8	10307.6	9379.6	8524.5	7650.2	7124.8	6881.3	6889.0
15°	12698.5	12476.1	11680.4	10581.8	9373.9	8144.9	6977.2	5949.5	5389.6	5140.4	5023.4
17.5°	12660.2	12318.9	11262.4	9878.1	8271.4	6712.6	5309.1	4392.6	4085.8	4013.0	3982.3
20°	12606.5	12152.1	10796.5	9063.3	7015.5	5109.7	3876.9	3424.4	3426.3	3510.6	3522.1
22.5°	12531.7	11962.3	10299.9	8148.7	5667.7	3721.6	3039.0	2908.6	3040.9	3202.0	3230.7
25°	12420.5	11737.9	9747.7	7138.2	4321.7	2860.7	2596.1	2590.3	2751.4	2920.1	2945.0
27.5°	12263.3	11444.6	9134.2	6053.0	3184.7	2431.2	2325.7	2366.0	2484.9	2607.6	2617.2
30°	12052.4	11103.3	8457.4	4908.4	2496.4	2164.7	2153.2	2189.6	2262.5	2348.7	2356.4
32.5°	11820.4	10756.3	7734.5	3800.2	2137.8	2020.9	2032.4	2049.6	2084.1	2118.7	2126.3
35°	11609.5	10401.6	6994.4	2887.5	1967.2	1926.9	1919.3	1915.4	1919.3	1907.8	1909.7
37.5°	11473.3	10108.2	6223.7	2298.9	1869.4	1844.5	1821.5	1792.7	1760.1	1740.9	1744.8
40°	11423.5	9889.6	5443.3	1986.4	1788.9	1771.6	1727.5	1666.2	1627.8	1616.3	1616.3
42.5°	11557.7	9776.5	4689.8	1829.1	1721.8	1693.0	1620.2	1549.2	1520.4	1518.5	1516.6
45°	11968.0	9822.5	3972.7	1742.9	1660.4	1604.8	1508.9	1449.5	1430.3	1434.2	1432.3
47.5°	12704.3	10112.0	3359.2	1685.3	1599.1	1526.2	1418.8	1370.9	1347.9	1347.9	1349.8
50°	13956.3	10788.9	2870.3	1637.4	1547.3	1453.3	1353.6	1294.2	1263.5	1261.6	1261.6
52.5°	15779.7	12000.6	2565.4	1597.1	1489.8	1388.2	1288.5	1213.7	1177.2	1169.6	1165.7
55°	18065.2	13737.7	2481.0	1570.3	1413.1	1317.2	1209.8	1135.1	1094.8	1077.5	1075.6
57.5°	20621.0	15850.6	2647.8	1537.7	1334.5	1232.8	1123.6	1052.6	1010.4	989.3	987.4
60°	23207.5	18157.2	3328.5	1491.7	1269.3	1140.8	1035.4	970.2	928.0	905.0	901.1
62.5°	25797.8	20588.4	4718.6	1487.9	1223.3	1052.6	945.2	889.6	849.4	824.5	818.7
65°	28719.8	23249.6	6298.5	1589.5	1207.9	972.1	853.2	809.1	774.6	751.6	749.7
67.5°	32075.1	26254.1	6147.0	1798.5	1259.7	899.2	766.9	732.4	707.5	688.3	686.4
70°	33649.3	25784.4	3821.3	1946.1	1332.5	828.3	684.5	659.6	640.4	627.0	621.2
71°	32989.7	24482.5	3203.9	1928.8	1324.9	797.6	651.9	632.7	613.5	602.0	596.3
72.5°	31191.2	22327.4	2672.8	1794.6	1238.6	742.0	609.7	590.5	573.3	559.9	556.0
75°	27989.3	19940.3	2139.7	1434.2	987.4	627.0	534.9	513.8	500.4	492.8	485.1
77.5°	20575.0	14230.5	1654.7	1133.1	726.7	511.9	456.3	441.0	427.6	416.1	410.3
80°	7882.2	5512.3	1114.0	845.5	533.0	404.6	368.1	360.5	347.0	339.4	339.4
82.5°	2122.5	1647.0	594.4	511.9	356.6	295.3	281.8	278.0	266.5	251.2	253.1
85°	859.0	726.7	333.6	281.8	218.6	174.5	189.8	191.7	178.3	159.1	161.1
87.5°	377.7	308.7	186.0	124.6	95.9	67.1	86.3	86.3	78.6	65.2	59.4
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)