

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: P322985

Luminaire Tested: **GAN-SA1A-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2599 lumens
Efficiency: N/A
Efficacy: 76.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

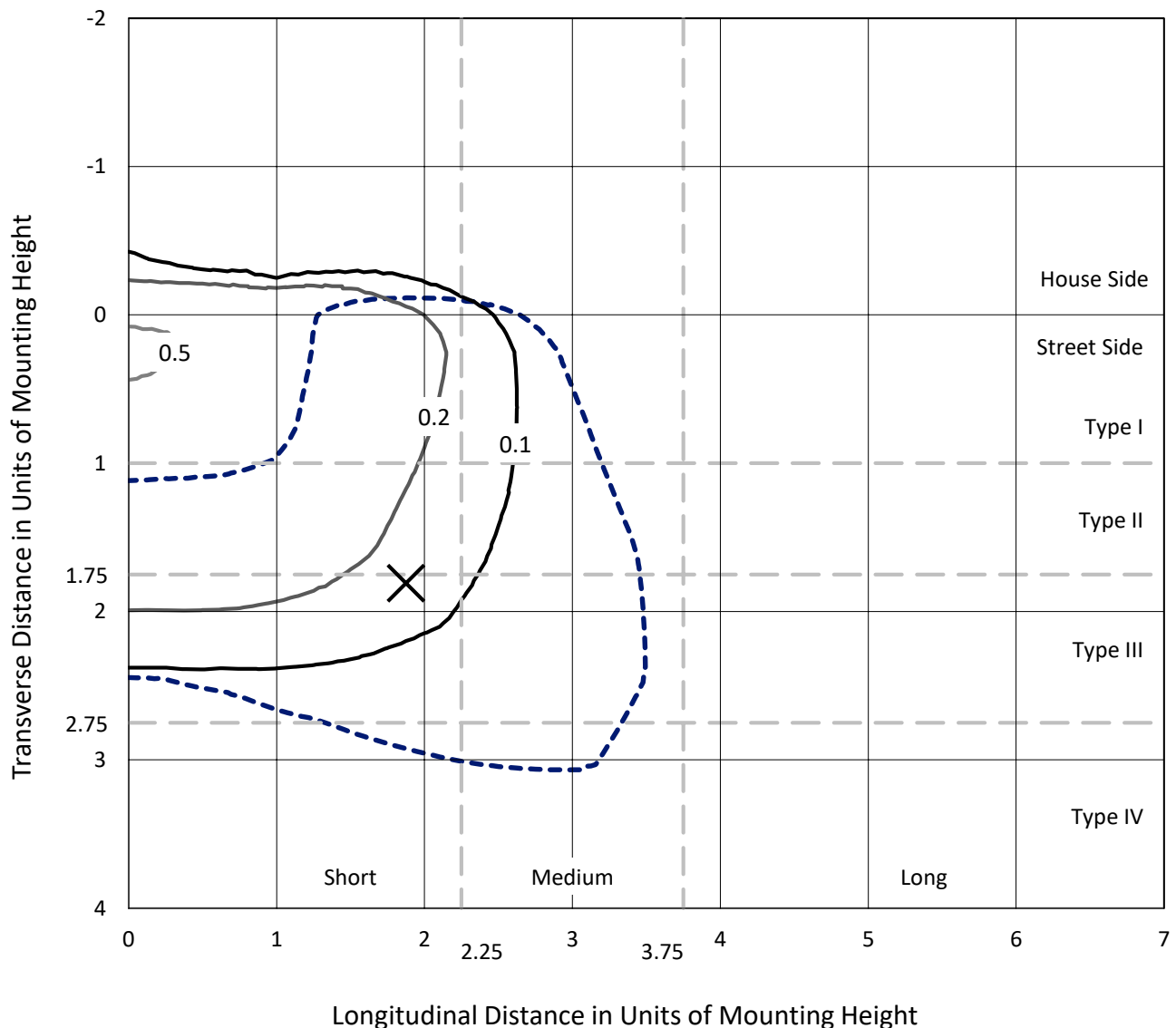
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

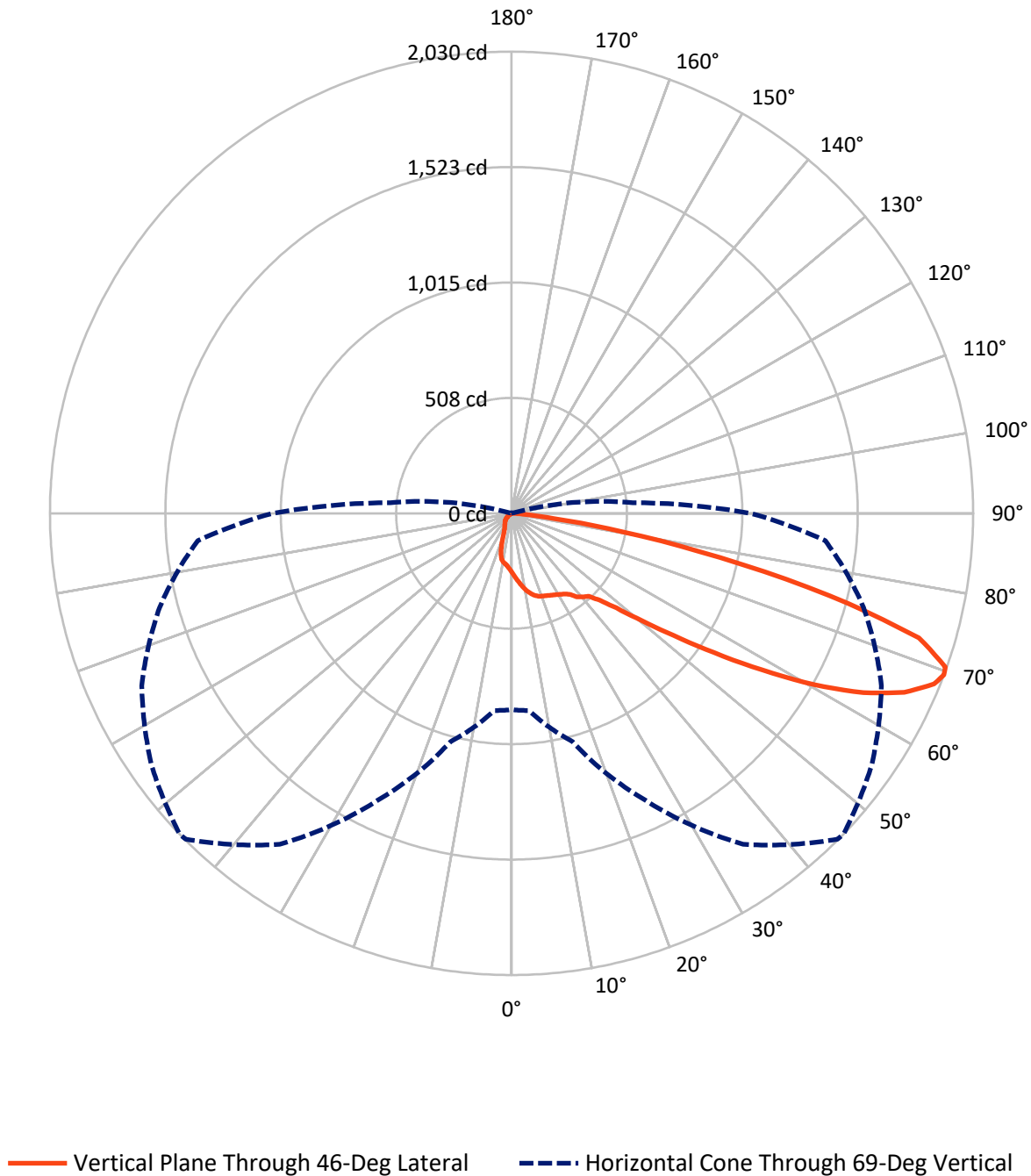
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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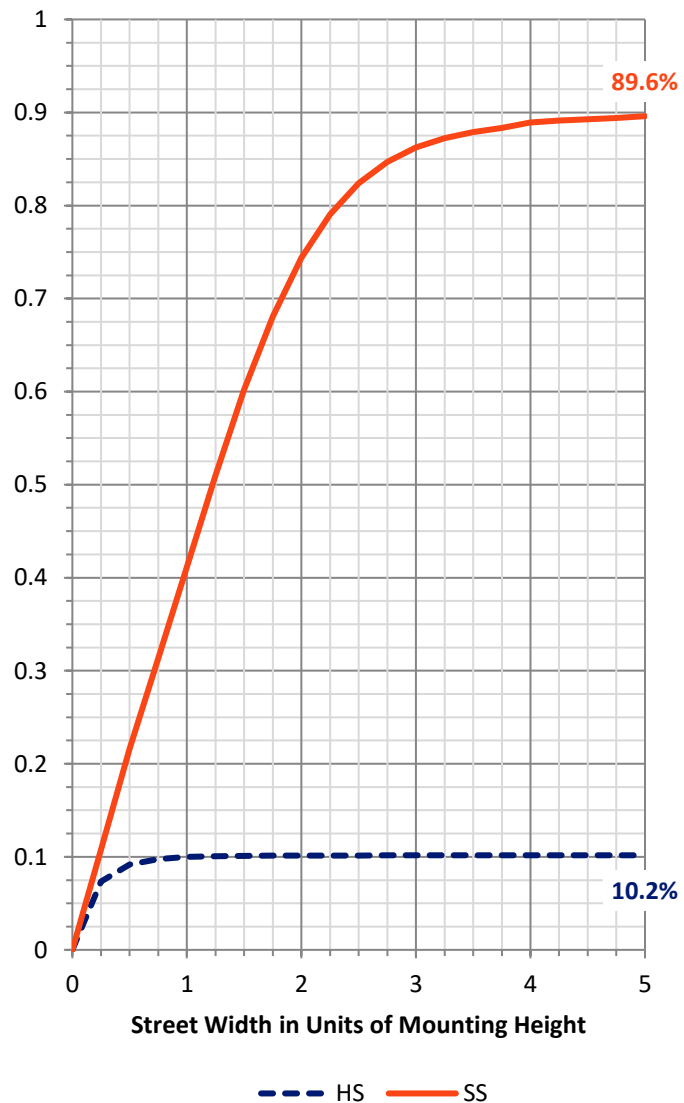
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	266.7	0.0	266.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	2332.3	0.0	2332.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	2599.0	0.0	2599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.9	1.0
10°-20°	78.6	3.0
20°-30°	123.7	4.8
30°-40°	177.3	6.8
40°-50°	306.5	11.8
50°-60°	605.5	23.3
60°-70°	846.3	32.6
70°-80°	408.9	15.7
80°-90°	26.3	1.0
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°	2599.0	100.0
0°-180°	2599.0	100.0

Coefficient of Utilization



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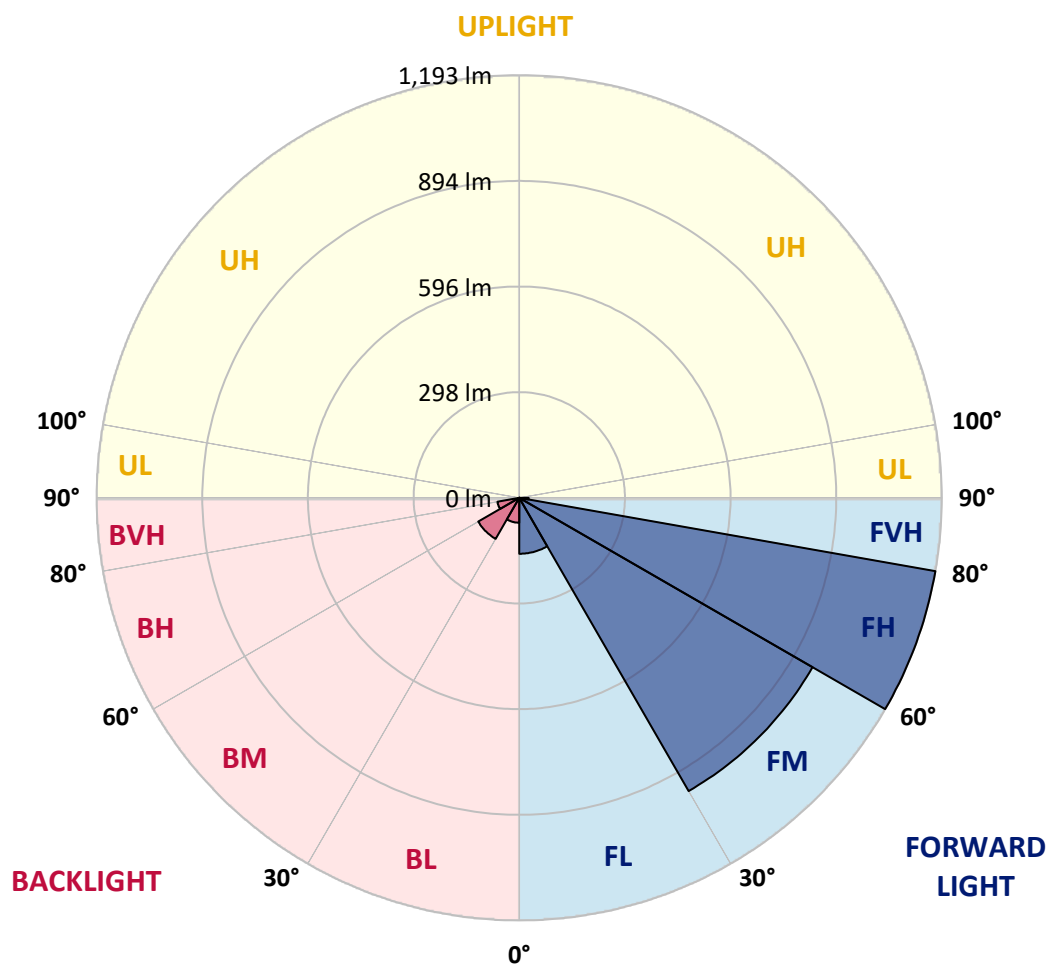
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	157.9	6.1			
FM	(30°-60°)	955.7	36.8			
FH	(60°-80°)	1192.6	45.9			G1/1800
FVH	(80°-90°)	26.1	1.0			G1/100
BL	(0°-30°)	70.3	2.7	B0/110		
BM	(30°-60°)	133.7	5.1	B0/220		
BH	(60°-80°)	62.5	2.4	B0/110		G0/110
BVH	(80°-90°)	0.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4
2.5°	289.3	288.9	287.2	286.5	282.3	279.9	278.9	275.9	271.5	267.1	262.2
5°	322.2	322.1	318.9	315.9	308.1	300.7	299.4	292.3	282.5	273.2	263.9
7.5°	355.8	354.2	351.1	345.2	333.9	322.2	321.1	311.1	297.1	283.7	270.4
10°	384.3	383.4	379.2	370.3	357.0	343.8	342.4	330.1	314.3	297.8	280.9
12.5°	406.5	405.8	400.3	389.2	375.1	361.3	359.5	348.5	331.6	313.2	293.2
15°	420.0	419.7	413.0	401.2	387.3	375.3	373.7	364.1	348.4	329.1	306.6
17.5°	423.2	423.3	416.4	404.4	393.0	384.5	383.2	375.9	362.8	343.6	320.0
20°	416.1	417.6	411.4	401.0	394.0	389.5	388.5	384.1	373.0	355.0	330.7
22.5°	406.2	406.9	402.6	395.7	392.7	393.6	393.1	390.7	381.3	364.7	341.3
25°	400.1	400.1	397.5	391.7	393.6	398.8	399.0	398.5	391.0	376.7	354.2
27.5°	399.8	399.1	396.2	391.8	397.1	405.2	405.7	409.0	404.3	391.2	370.3
30°	409.6	408.7	402.5	396.8	403.6	412.2	413.5	420.7	418.3	406.9	388.2
32.5°	432.4	429.3	415.5	406.2	411.3	421.6	423.2	434.7	438.3	426.3	405.5
35°	463.5	453.9	434.1	423.9	424.4	435.3	436.7	453.6	464.4	444.0	418.9
37.5°	506.6	501.8	469.5	442.5	444.7	461.1	465.4	483.7	480.6	453.8	434.2
40°	600.9	593.4	559.1	494.4	464.0	482.1	483.4	493.2	493.4	475.9	465.9
42.5°	729.3	726.3	690.1	588.6	502.2	496.1	498.5	515.0	533.4	522.4	521.9
45°	871.5	869.9	831.6	713.6	579.3	542.0	545.1	567.1	602.3	604.8	620.3
47.5°	986.0	985.2	963.2	853.1	697.4	619.9	620.9	644.3	706.2	736.8	761.5
50°	1090.3	1093.8	1076.4	1004.1	858.2	741.9	739.6	755.2	854.6	904.7	935.4
52.5°	1235.3	1240.3	1191.4	1145.0	1027.0	893.2	891.4	907.7	1033.0	1070.5	1076.0
55°	1363.3	1354.8	1316.2	1302.8	1232.8	1080.1	1079.7	1094.0	1205.5	1221.5	1231.6
57.5°	1419.9	1416.6	1435.2	1465.9	1448.4	1301.1	1300.0	1289.0	1359.9	1361.6	1392.7
60°	1455.6	1459.6	1516.8	1611.4	1655.2	1538.8	1531.8	1464.9	1507.4	1503.6	1536.9
62.5°	1428.8	1436.7	1539.6	1697.4	1810.0	1746.3	1736.4	1625.9	1633.4	1620.3	1651.3
65°	1286.5	1298.8	1467.3	1681.1	1886.7	1908.5	1898.4	1768.2	1733.4	1712.0	1694.8
67.5°	1044.6	1051.9	1227.8	1540.2	1852.1	2005.3	2003.2	1892.8	1809.0	1696.5	1563.2
69°	863.2	870.4	1039.8	1391.7	1776.0	2026.0	2030.0	1932.8	1794.6	1602.4	1385.0
70°	731.1	738.8	896.6	1264.5	1687.6	2016.4	2023.6	1929.0	1753.4	1493.5	1228.7
72.5°	383.5	390.1	552.0	871.2	1375.8	1851.5	1873.3	1766.0	1486.3	1084.7	726.5
75°	120.5	124.3	215.6	455.4	942.0	1439.6	1444.6	1385.3	1055.4	596.6	302.6
77.5°	45.9	44.8	71.8	167.8	476.2	906.5	937.1	865.7	553.8	210.9	69.8
80°	24.7	24.9	37.3	69.5	203.7	465.9	491.7	419.6	196.8	65.8	16.1
82.5°	10.7	11.2	21.0	36.8	93.6	171.8	184.7	153.8	75.2	44.2	6.0
85°	2.3	2.6	10.1	20.0	38.1	48.3	50.6	49.8	47.9	34.4	2.3
87.5°	0.0	0.0	4.5	7.2	9.6	11.0	9.6	12.6	26.4	23.2	1.2
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°	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4	260.4
2.5°	260.7	258.5	254.7	250.5	247.6	244.6	242.1	241.0	239.8	239.0	240.1
5°	260.2	255.9	248.6	241.5	236.4	232.3	228.8	227.5	226.2	225.2	225.1
7.5°	264.4	258.5	247.2	236.9	229.0	223.4	218.7	216.8	215.2	214.5	213.9
10°	272.6	264.9	249.9	236.4	226.2	216.7	206.7	199.0	194.0	191.7	190.8
12.5°	283.2	273.6	255.0	239.0	224.1	205.8	184.6	166.3	154.5	150.6	148.3
15°	295.6	283.7	261.8	242.3	216.5	183.2	147.2	123.3	112.4	110.2	107.7
17.5°	307.6	294.4	269.8	242.9	200.0	146.4	107.8	91.6	87.4	88.8	89.2
20°	318.0	305.0	277.7	237.5	169.9	109.8	83.5	79.5	81.0	83.8	84.3
22.5°	328.7	315.2	285.0	223.4	131.4	83.4	75.2	76.2	77.7	80.5	81.0
25°	341.6	327.7	291.8	197.4	98.6	70.9	71.4	72.9	74.5	77.0	77.3
27.5°	356.4	343.4	296.4	163.7	73.1	65.2	66.8	69.0	70.6	73.0	73.5
30°	376.2	364.1	297.8	128.7	61.3	60.1	60.8	63.5	65.8	68.0	68.4
32.5°	394.7	384.6	292.9	97.1	56.8	55.3	55.3	56.9	59.6	61.7	62.1
35°	411.8	405.2	277.3	71.0	53.4	50.9	49.7	49.7	51.4	53.1	53.6
37.5°	434.3	434.1	252.1	56.7	50.1	47.3	44.7	42.8	42.2	42.5	42.8
40°	472.9	473.3	219.2	50.8	47.3	43.5	39.6	36.1	32.8	31.7	31.6
42.5°	533.2	527.8	184.7	48.0	44.8	39.6	33.8	29.0	23.9	22.3	22.2
45°	629.0	596.5	148.2	45.5	42.3	35.2	27.9	21.4	17.3	16.1	16.1
47.5°	768.6	686.8	114.8	42.7	38.9	30.2	21.1	15.5	12.7	12.1	12.2
50°	912.8	775.3	88.0	39.1	34.7	25.0	15.6	11.2	9.6	9.6	9.7
52.5°	1040.8	840.1	68.6	35.3	29.6	19.6	11.8	8.8	8.0	7.9	8.0
55°	1160.6	881.9	52.5	31.0	23.5	14.6	9.0	7.2	6.7	6.5	6.3
57.5°	1276.1	902.6	39.4	25.0	17.1	10.6	7.2	6.1	5.6	5.2	5.1
60°	1353.0	885.8	27.1	18.4	11.8	7.7	6.0	5.2	4.6	4.3	4.1
62.5°	1396.4	839.8	17.4	13.3	8.4	5.7	4.8	4.4	3.5	3.2	3.2
65°	1378.8	764.0	12.2	9.5	6.1	4.3	3.5	3.5	2.6	2.1	1.9
67.5°	1221.9	645.5	9.3	7.1	4.4	3.2	2.7	3.0	1.6	1.0	1.0
69°	1051.3	535.0	7.9	5.8	3.7	2.6	2.3	2.8	1.1	0.7	0.6
70°	913.7	461.5	7.2	5.1	3.0	2.2	2.1	2.7	1.1	0.6	0.5
72.5°	546.7	257.4	5.5	3.7	1.9	1.7	1.7	3.0	1.1	0.6	0.5
75°	220.9	90.7	4.0	2.6	1.5	1.5	2.1	3.9	1.0	0.5	0.4
77.5°	50.1	19.9	2.3	1.6	1.0	1.5	2.4	3.0	0.6	0.2	0.0
80°	12.2	4.9	1.5	1.0	0.6	1.1	1.8	1.7	0.1	0.0	0.0
82.5°	4.0	1.7	0.6	0.5	0.1	0.4	0.9	0.5	0.0	0.0	0.0
85°	1.7	1.0	0.2	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
87.5°	1.1	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)