

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: P321585

Luminaire Tested: **GAN-SA1A-740-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3752 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

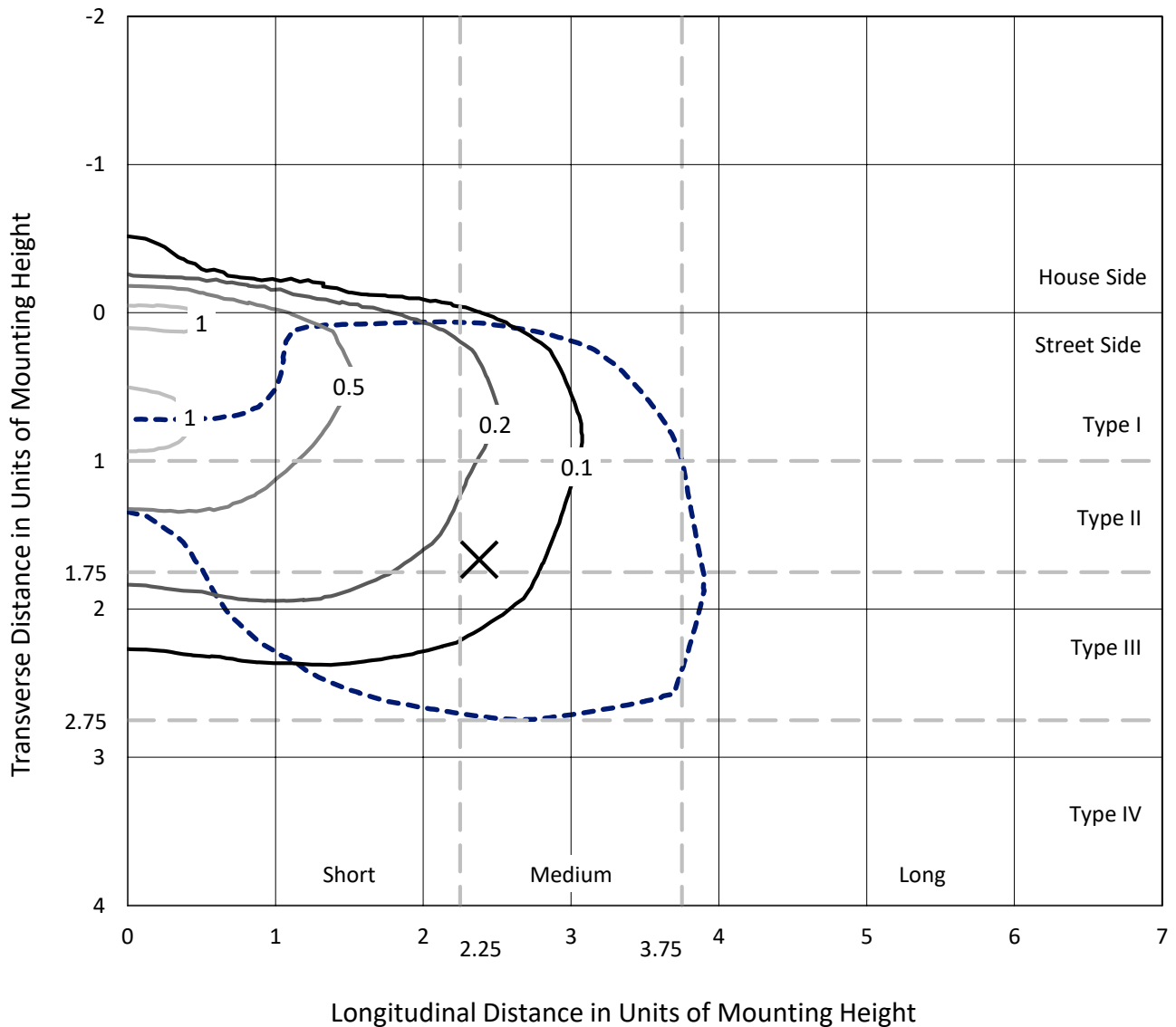
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

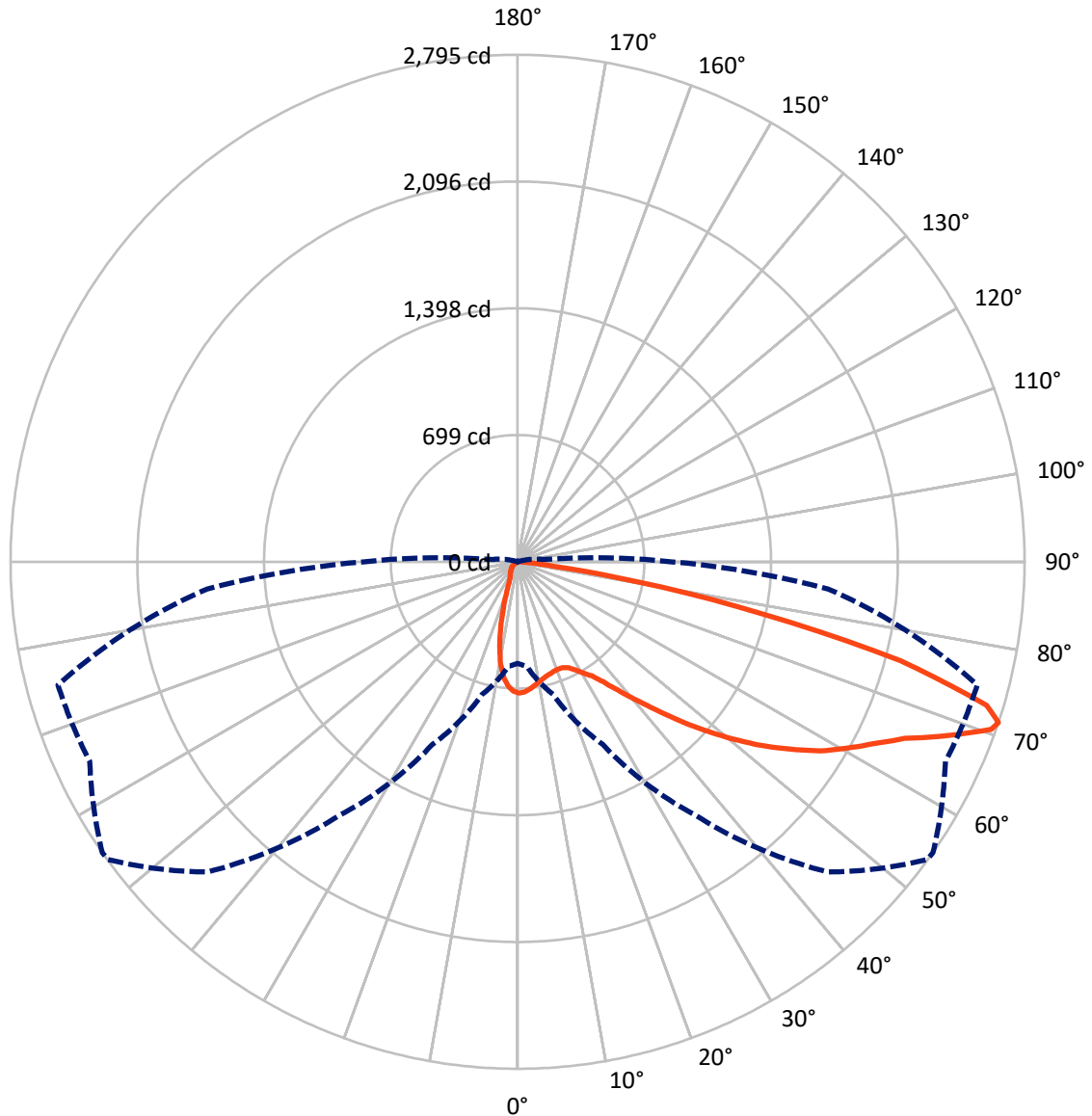
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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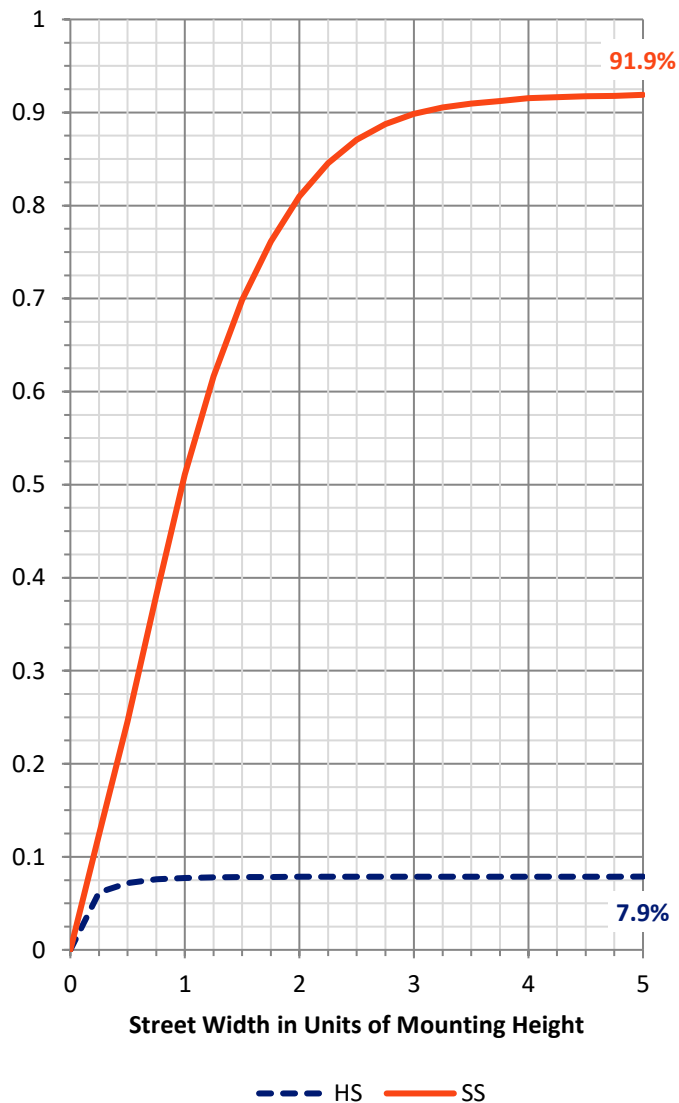
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	297.1	0.0	297.1
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	3454.9	0.0	3454.9
	% Fixture	92.1	0.0	92.1
Total	Lumens	3752.0	0.0	3752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.7	1.6
10°-20°	139.3	3.7
20°-30°	223.8	6.0
30°-40°	380.3	10.1
40°-50°	590.3	15.7
50°-60°	793.6	21.2
60°-70°	970.8	25.9
70°-80°	567.6	15.1
80°-90°	24.5	0.7
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°	3752.0	100.0
0°-180°	3752.0	100.0

Coefficient of Utilization

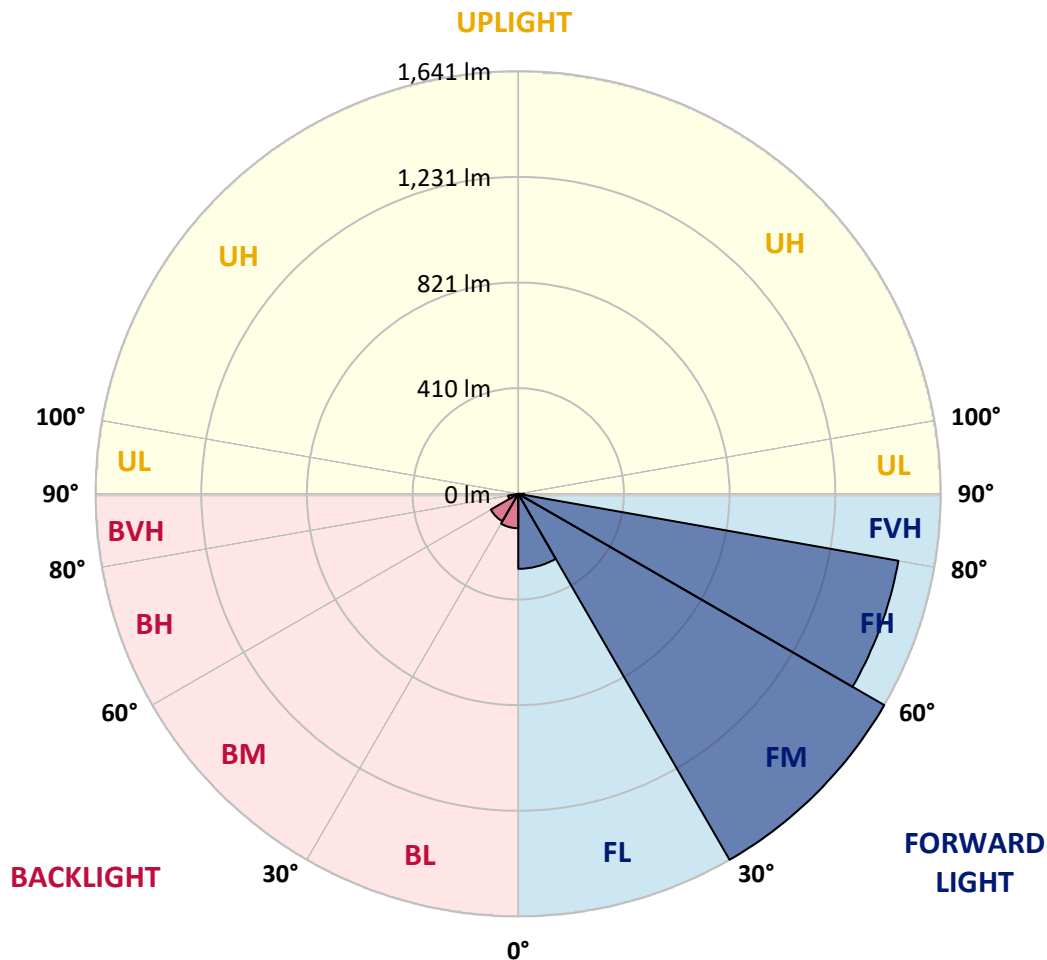


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.1	7.8			
FM (30°-60°)	1641.0	43.7			
FH (60°-80°)	1498.7	39.9			G1/1800
FVH (80°-90°)	24.1	0.6			G1/100
BL (0°-30°)	133.7	3.6	B1/500		
BM (30°-60°)	123.2	3.3	B0/220		
BH (60°-80°)	39.8	1.1	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6
2.5°	702.4	703.2	706.2	707.6	710.8	716.2	718.9	719.0	723.4	725.1	726.5
5°	652.7	657.7	662.8	668.2	677.9	690.9	703.7	704.9	719.0	729.5	735.0
7.5°	609.9	614.4	620.5	629.1	642.9	663.3	684.7	687.2	714.0	737.7	750.2
10°	565.9	569.6	578.4	591.0	610.0	637.3	666.1	670.3	709.4	748.9	770.8
12.5°	518.9	521.1	531.7	549.9	577.9	612.6	650.5	656.0	706.6	761.7	795.0
15°	483.2	484.2	494.3	513.2	545.2	590.3	638.3	645.1	707.2	777.0	821.5
17.5°	474.1	474.6	480.0	492.9	521.3	570.4	628.7	637.0	709.3	792.0	848.1
20°	511.0	507.4	501.9	499.9	512.0	558.5	623.0	632.3	712.0	805.3	872.0
22.5°	612.2	601.8	578.7	547.9	529.2	559.3	624.5	633.8	720.6	821.6	899.6
25°	762.5	748.0	708.8	648.1	589.8	583.6	637.2	646.6	737.2	841.2	926.1
27.5°	933.5	919.2	871.2	784.6	685.2	631.6	666.1	674.9	762.0	858.5	946.3
30°	1097.3	1093.2	1036.6	938.2	805.1	709.4	703.5	711.0	780.4	869.0	962.3
32.5°	1236.1	1229.7	1184.2	1088.5	942.4	802.9	747.5	749.7	794.2	882.5	983.2
35°	1364.8	1356.9	1316.9	1226.5	1083.3	917.2	815.2	812.0	824.3	909.6	1013.5
37.5°	1477.2	1484.4	1440.1	1354.0	1209.6	1035.9	906.5	896.9	871.5	953.7	1057.5
40°	1571.2	1571.2	1548.1	1476.3	1346.1	1158.7	1009.8	997.2	942.4	1021.8	1113.3
42.5°	1605.0	1612.3	1620.9	1580.3	1468.2	1286.5	1124.9	1111.7	1042.3	1118.3	1183.7
45°	1607.1	1618.5	1662.5	1662.3	1578.6	1413.3	1254.6	1248.4	1170.4	1242.3	1271.0
47.5°	1578.6	1592.9	1665.3	1706.5	1666.0	1531.4	1396.5	1388.7	1320.8	1394.3	1362.3
50°	1534.6	1550.4	1634.7	1723.8	1725.5	1634.2	1545.9	1534.3	1486.4	1568.0	1456.6
52.5°	1455.9	1486.6	1607.2	1727.8	1764.6	1723.0	1688.1	1683.0	1671.7	1735.3	1531.7
55°	1287.6	1321.7	1538.3	1729.2	1800.8	1801.6	1821.3	1822.7	1845.4	1891.6	1587.7
57.5°	1208.1	1227.3	1418.0	1735.6	1854.5	1890.9	1957.1	1967.6	2002.8	2040.0	1651.5
60°	1158.1	1180.8	1358.7	1726.8	1938.9	2008.0	2083.0	2086.5	2124.3	2193.2	1738.0
62.5°	1118.1	1140.6	1321.3	1693.1	2033.8	2148.9	2206.0	2206.3	2234.6	2375.6	1836.2
65°	1019.6	1038.5	1245.7	1655.2	2096.5	2288.2	2348.8	2346.6	2369.7	2568.0	1950.2
67.5°	877.1	891.6	1091.2	1511.5	2072.9	2414.9	2564.5	2557.2	2529.3	2734.3	1995.0
70°	678.1	683.3	860.0	1259.7	1851.8	2463.6	2772.9	2769.2	2627.2	2704.5	1830.8
71°	560.5	577.7	758.0	1111.7	1703.8	2418.6	2793.1	2795.3	2602.6	2623.3	1717.7
72.5°	325.5	340.1	549.4	853.8	1446.5	2230.9	2688.3	2704.1	2487.7	2386.1	1467.2
75°	69.7	74.6	203.7	413.3	795.7	1563.6	2121.9	2178.3	2027.6	1623.2	884.3
77.5°	48.5	52.4	87.3	187.5	263.0	772.6	1318.1	1381.8	1211.3	610.0	283.0
80°	38.4	42.8	68.1	92.7	71.1	249.2	617.4	656.4	404.0	136.1	47.7
82.5°	21.4	25.4	53.1	50.0	27.3	47.3	172.9	195.4	80.9	27.5	11.3
85°	6.2	7.6	34.2	36.4	11.6	9.1	29.5	36.6	15.3	7.2	5.1
87.5°	0.0	0.0	16.5	14.0	3.4	1.3	2.7	3.0	3.0	3.0	3.4
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°	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6	723.6
2.5°	726.5	727.6	723.4	717.9	712.0	704.7	697.1	691.2	691.1	688.2	685.3
5°	735.4	734.7	723.1	705.4	684.5	662.8	642.0	618.6	610.9	601.3	598.1
7.5°	751.9	747.2	722.6	683.8	638.0	592.5	545.5	498.2	478.0	459.8	456.6
10°	772.6	763.7	719.4	651.5	567.4	483.5	412.6	348.2	319.9	298.2	297.2
12.5°	794.2	780.5	710.4	602.6	474.9	357.0	275.3	211.9	188.4	173.2	174.5
15°	816.8	796.4	691.2	536.8	369.6	242.3	169.1	131.9	122.5	118.6	119.6
17.5°	839.8	807.3	664.5	457.4	265.7	156.3	117.1	106.6	106.6	107.5	107.8
20°	859.9	813.2	625.0	368.4	180.1	113.9	102.4	100.9	101.8	103.1	103.3
22.5°	879.8	813.6	573.6	278.3	126.0	99.7	97.5	96.9	97.4	98.9	99.1
25°	895.9	809.5	509.3	198.0	100.6	94.0	93.0	92.7	93.0	94.8	94.8
27.5°	902.5	794.9	430.8	139.2	90.1	87.6	87.3	87.6	88.1	89.5	89.6
30°	903.2	769.2	345.2	100.7	81.7	79.0	79.7	80.9	80.4	80.0	80.4
32.5°	904.9	739.6	261.8	82.9	74.6	70.4	69.6	69.6	67.6	66.4	65.7
35°	910.4	704.7	189.9	74.5	67.4	62.5	59.3	55.6	51.7	49.7	49.2
37.5°	919.2	668.2	136.0	68.9	61.0	55.4	49.4	42.8	37.2	35.7	35.7
40°	935.2	630.4	100.6	64.5	55.9	49.0	39.9	31.3	26.3	25.4	25.4
42.5°	960.5	590.7	80.2	60.6	51.6	42.5	30.5	22.7	19.0	18.5	18.4
45°	986.7	546.9	70.1	56.9	46.8	34.9	22.6	16.8	14.7	14.2	14.2
47.5°	1013.0	500.2	65.2	53.4	42.3	27.1	16.8	13.3	12.3	12.3	12.5
50°	1035.3	451.5	61.7	49.5	36.4	20.6	13.3	11.3	11.0	11.6	11.8
52.5°	1040.8	403.7	57.3	44.6	29.1	15.7	11.0	9.9	9.9	9.9	9.9
55°	1037.4	366.6	51.6	38.6	21.6	12.5	9.4	8.8	8.6	8.6	8.6
57.5°	1048.9	344.7	41.3	30.0	15.5	10.1	8.3	7.7	7.4	7.2	7.2
60°	1072.0	330.4	29.5	21.6	11.6	8.4	7.1	6.6	6.1	5.7	5.7
62.5°	1102.6	317.9	21.9	16.0	8.9	6.7	5.9	5.4	4.7	4.4	4.4
65°	1126.2	295.7	16.7	12.0	6.7	5.4	4.5	4.4	3.4	3.0	2.9
67.5°	1090.2	246.8	13.5	8.8	5.1	4.2	3.5	3.4	2.0	1.7	1.7
70°	935.0	171.8	10.8	6.4	3.7	3.4	2.9	2.2	1.5	1.3	1.3
71°	847.9	143.5	9.8	5.4	3.2	3.2	2.7	1.9	1.3	1.2	1.2
72.5°	704.4	101.9	8.3	4.2	2.9	3.4	2.9	1.7	1.3	1.2	1.0
75°	408.9	42.6	5.7	2.9	2.2	4.0	3.7	1.5	1.0	0.8	0.8
77.5°	123.0	15.7	3.2	1.9	1.7	3.5	4.2	1.3	0.5	0.2	0.2
80°	22.4	6.7	2.0	1.2	1.2	2.2	3.2	0.7	0.0	0.0	0.0
82.5°	7.9	3.4	1.2	0.7	0.5	1.0	1.5	0.0	0.0	0.0	0.0
85°	4.5	2.4	0.7	0.3	0.0	0.2	0.3	0.0	0.0	0.0	0.0
87.5°	3.0	0.7	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)