

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: P322995

Luminaire Tested: **GAN-SA1B-827-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322995
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-SA1B-827-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA 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: 3187 lumens
Efficiency: N/A
Efficacy: 72.4 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

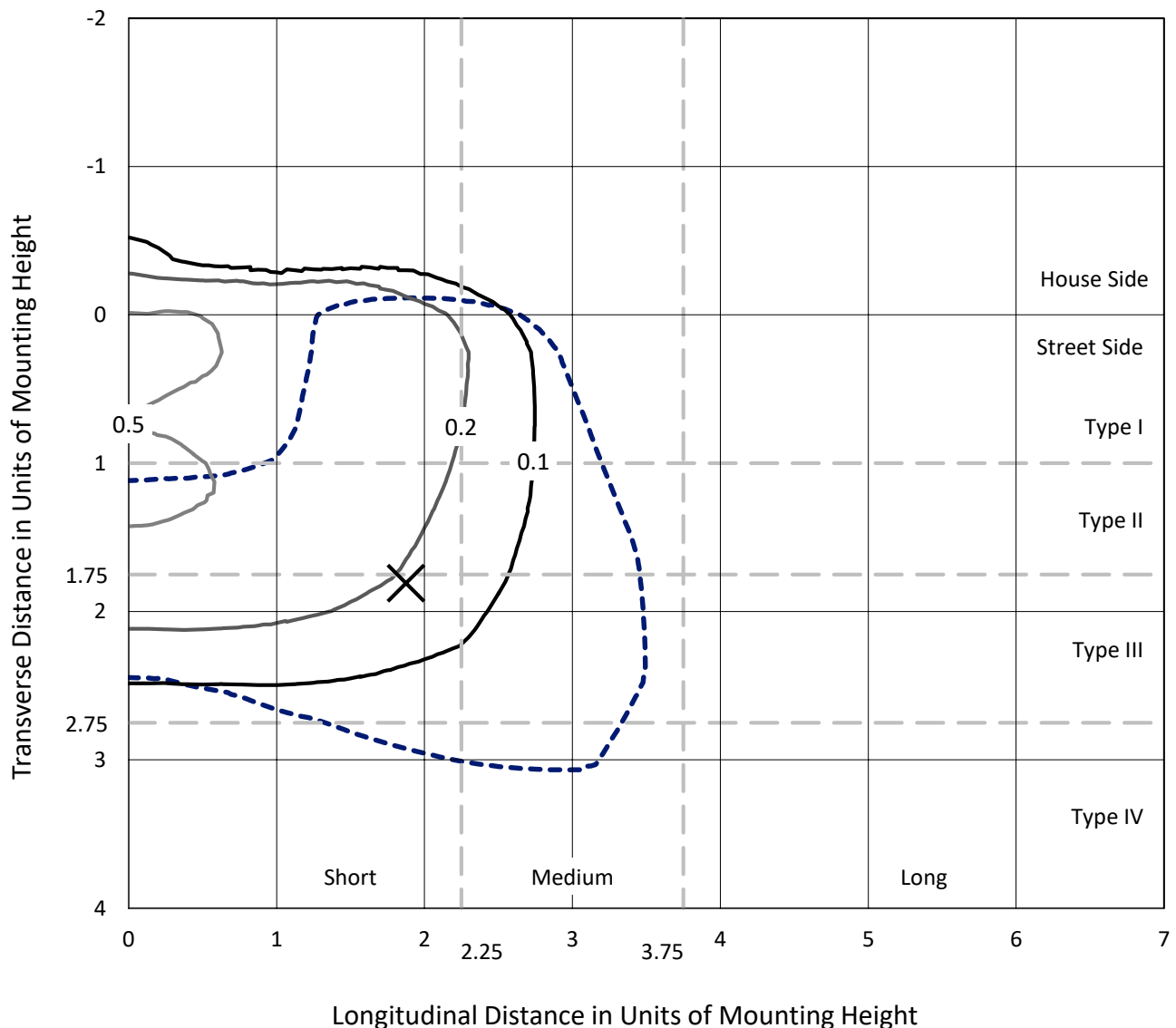
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

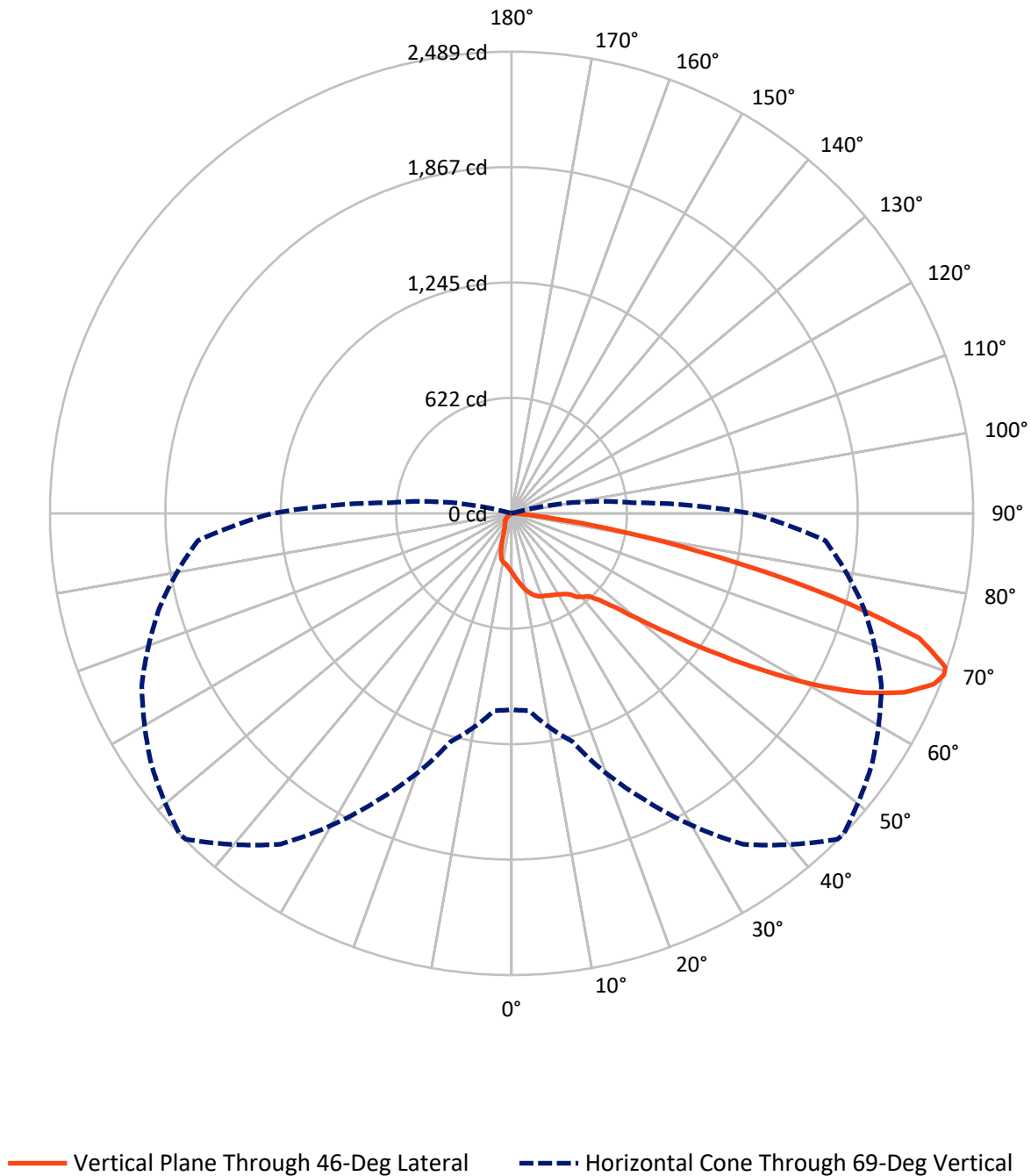
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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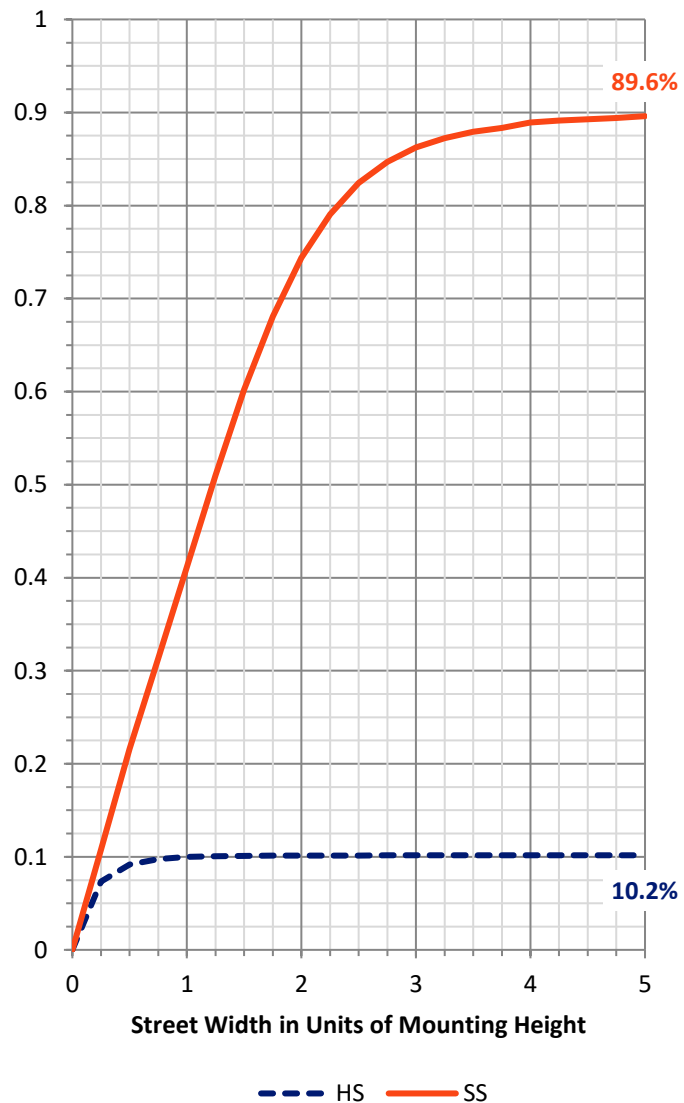
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	327.1	0.0	327.1
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	2859.9	0.0	2859.9
	% Fixture	89.7	0.0	89.7
Total	Lumens	3187.0	0.0	3187.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.8	1.0
10°-20°	96.4	3.0
20°-30°	151.6	4.8
30°-40°	217.5	6.8
40°-50°	375.8	11.8
50°-60°	742.5	23.3
60°-70°	1037.7	32.6
70°-80°	501.3	15.7
80°-90°	32.2	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°	3187.0	100.0
0°-180°	3187.0	100.0

Coefficient of Utilization



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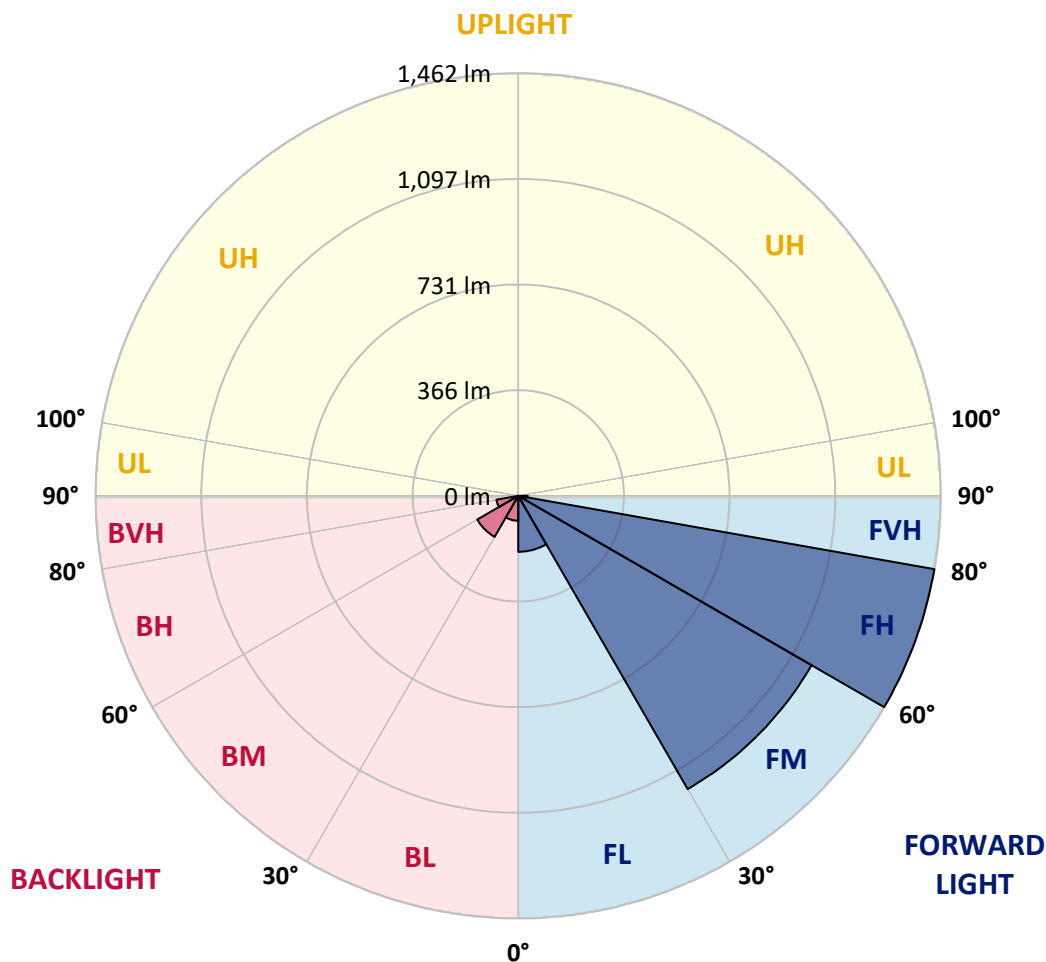
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	193.6	6.1			
FM	(30°-60°)	1171.9	36.8			
FH	(60°-80°)	1462.4	45.9			G1/1800
FVH	(80°-90°)	31.9	1.0			G1/100
BL	(0°-30°)	86.2	2.7	B0/110		
BM	(30°-60°)	163.9	5.1	B0/220		
BH	(60°-80°)	76.7	2.4	B0/110		G0/110
BVH	(80°-90°)	0.3	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°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3
2.5°	354.7	354.3	352.2	351.3	346.2	343.2	342.0	338.3	332.9	327.5	321.6
5°	395.1	394.9	391.1	387.3	377.8	368.8	367.1	358.5	346.4	335.0	323.7
7.5°	436.3	434.4	430.5	423.3	409.4	395.1	393.7	381.5	364.3	347.9	331.6
10°	471.3	470.1	465.0	454.1	437.8	421.5	419.9	404.8	385.4	365.2	344.4
12.5°	498.5	497.6	490.9	477.3	459.9	443.1	440.8	427.4	406.6	384.0	359.5
15°	515.1	514.6	506.4	491.9	474.9	460.2	458.3	446.5	427.2	403.6	376.0
17.5°	519.0	519.1	510.6	495.9	481.9	471.4	469.9	461.0	444.8	421.4	392.4
20°	510.3	512.1	504.5	491.8	483.1	477.6	476.4	471.0	457.4	435.3	405.5
22.5°	498.0	498.9	493.7	485.2	481.6	482.6	482.1	479.1	467.6	447.2	418.5
25°	490.6	490.6	487.4	480.3	482.6	489.1	489.2	488.6	479.5	461.9	434.4
27.5°	490.3	489.4	485.8	480.4	487.0	496.8	497.4	501.5	495.8	479.7	454.1
30°	502.2	501.2	493.6	486.5	494.9	505.5	507.0	515.8	513.0	498.9	476.1
32.5°	530.2	526.4	509.5	498.0	504.3	517.0	519.0	533.0	537.5	522.7	497.3
35°	568.4	556.6	532.3	519.9	520.5	533.8	535.5	556.2	569.5	544.5	513.7
37.5°	621.2	615.3	575.7	542.6	545.3	565.4	570.7	593.1	589.3	556.5	532.4
40°	736.8	727.7	685.6	606.2	569.0	591.1	592.8	604.7	605.0	583.5	571.3
42.5°	894.3	890.6	846.2	721.7	615.8	608.3	611.3	631.5	654.0	640.6	640.0
45°	1068.7	1066.8	1019.7	875.0	710.4	664.7	668.4	695.4	738.6	741.6	760.6
47.5°	1209.0	1208.1	1181.1	1046.1	855.2	760.1	761.3	790.0	865.9	903.4	933.8
50°	1336.9	1341.3	1319.9	1231.3	1052.4	909.7	906.9	926.0	1047.9	1109.3	1147.0
52.5°	1514.7	1520.9	1460.9	1404.0	1259.4	1095.3	1093.1	1113.1	1266.7	1312.7	1319.4
55°	1671.8	1661.3	1614.0	1597.5	1511.8	1324.5	1323.9	1341.6	1478.3	1497.9	1510.3
57.5°	1741.1	1737.1	1760.0	1797.6	1776.1	1595.4	1594.1	1580.6	1667.6	1669.7	1707.8
60°	1784.9	1789.8	1859.9	1976.0	2029.7	1887.0	1878.3	1796.3	1848.4	1843.8	1884.6
62.5°	1752.0	1761.7	1887.9	2081.4	2219.4	2141.4	2129.2	1993.8	2002.9	1986.9	2024.9
65°	1577.5	1592.6	1799.3	2061.5	2313.6	2340.3	2327.9	2168.2	2125.6	2099.3	2078.2
67.5°	1280.9	1289.9	1505.6	1888.6	2271.1	2459.0	2456.4	2321.0	2218.2	2080.3	1916.8
69°	1058.5	1067.4	1275.1	1706.6	2177.7	2484.4	2489.3	2370.1	2200.6	1965.0	1698.4
70°	896.6	906.0	1099.5	1550.6	2069.4	2472.6	2481.4	2365.4	2150.1	1831.4	1506.7
72.5°	470.2	478.3	676.9	1068.3	1687.0	2270.4	2297.1	2165.5	1822.6	1330.0	890.9
75°	147.8	152.4	264.3	558.4	1155.1	1765.3	1771.5	1698.7	1294.2	731.6	371.0
77.5°	56.3	55.0	88.0	205.8	584.0	1111.6	1149.1	1061.5	679.1	258.7	85.6
80°	30.3	30.5	45.7	85.2	249.8	571.3	602.9	514.5	241.3	80.7	19.7
82.5°	13.1	13.7	25.7	45.1	114.8	210.7	226.5	188.6	92.2	54.2	7.3
85°	2.8	3.1	12.4	24.5	46.8	59.2	62.0	61.1	58.7	42.1	2.8
87.5°	0.0	0.0	5.5	8.8	11.8	13.4	11.8	15.4	32.4	28.4	1.5
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°	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3	319.3
2.5°	319.6	316.9	312.3	307.2	303.6	299.9	296.9	295.6	294.1	293.0	294.4
5°	319.0	313.8	304.8	296.2	289.9	284.8	280.6	279.0	277.3	276.1	276.0
7.5°	324.3	316.9	303.2	290.5	280.8	273.9	268.2	265.8	263.9	263.0	262.2
10°	334.3	324.9	306.5	289.9	277.3	265.7	253.4	244.0	237.9	235.0	234.0
12.5°	347.3	335.5	312.8	293.0	274.8	252.4	226.4	204.0	189.5	184.7	181.9
15°	362.5	347.9	321.0	297.1	265.5	224.6	180.5	151.2	137.8	135.1	132.1
17.5°	377.2	361.0	330.8	297.8	245.2	179.5	132.2	112.4	107.1	108.9	109.4
20°	390.0	374.0	340.5	291.2	208.3	134.6	102.4	97.4	99.4	102.8	103.4
22.5°	403.0	386.6	349.5	273.9	161.1	102.2	92.2	93.4	95.3	98.8	99.4
25°	418.8	401.8	357.9	242.1	120.9	87.0	87.6	89.4	91.3	94.4	94.7
27.5°	437.1	421.1	363.4	200.7	89.7	79.9	81.9	84.6	86.5	89.5	90.1
30°	461.3	446.5	365.2	157.8	75.2	73.7	74.6	77.9	80.7	83.4	83.8
32.5°	484.0	471.6	359.2	119.1	69.6	67.8	67.8	69.8	73.1	75.6	76.2
35°	504.9	496.8	340.1	87.1	65.4	62.5	61.0	61.0	63.1	65.2	65.7
37.5°	532.6	532.3	309.2	69.5	61.4	58.0	54.8	52.4	51.7	52.2	52.4
40°	579.9	580.4	268.8	62.3	58.0	53.3	48.6	44.2	40.2	38.9	38.7
42.5°	653.9	647.2	226.5	58.9	55.0	48.6	41.4	35.6	29.3	27.3	27.2
45°	771.3	731.4	181.7	55.7	51.9	43.2	34.2	26.3	21.2	19.7	19.7
47.5°	942.4	842.2	140.8	52.3	47.7	37.1	25.9	19.0	15.5	14.8	14.9
50°	1119.4	950.7	107.9	48.0	42.6	30.6	19.1	13.7	11.8	11.8	12.0
52.5°	1276.3	1030.1	84.1	43.3	36.3	24.1	14.5	10.8	9.9	9.7	9.9
55°	1423.1	1081.4	64.4	38.0	28.8	17.9	11.1	8.8	8.2	7.9	7.8
57.5°	1564.8	1106.8	48.3	30.6	20.9	13.0	8.8	7.5	6.9	6.4	6.3
60°	1659.1	1086.2	33.2	22.6	14.5	9.4	7.3	6.4	5.7	5.2	5.1
62.5°	1712.3	1029.9	21.4	16.3	10.3	7.0	5.8	5.4	4.3	3.9	3.9
65°	1690.8	936.9	14.9	11.7	7.5	5.2	4.3	4.3	3.1	2.5	2.4
67.5°	1498.3	791.5	11.4	8.7	5.4	3.9	3.3	3.7	1.9	1.2	1.2
69°	1289.1	656.0	9.7	7.2	4.5	3.1	2.8	3.4	1.3	0.9	0.7
70°	1120.4	565.9	8.8	6.3	3.7	2.7	2.5	3.3	1.3	0.7	0.6
72.5°	670.3	315.6	6.7	4.5	2.4	2.1	2.1	3.7	1.3	0.7	0.6
75°	270.9	111.2	4.9	3.1	1.8	1.8	2.5	4.8	1.2	0.6	0.4
77.5°	61.4	24.4	2.8	1.9	1.2	1.8	3.0	3.7	0.7	0.3	0.0
80°	14.9	6.0	1.8	1.2	0.7	1.3	2.2	2.1	0.1	0.0	0.0
82.5°	4.9	2.1	0.7	0.6	0.1	0.4	1.0	0.6	0.0	0.0	0.0
85°	2.1	1.2	0.3	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
87.5°	1.3	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)