

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: P322785

Luminaire Tested: **GAN-SA1A-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322785
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-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 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: 2957 lumens
Efficiency: N/A
Efficacy: 87.0 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

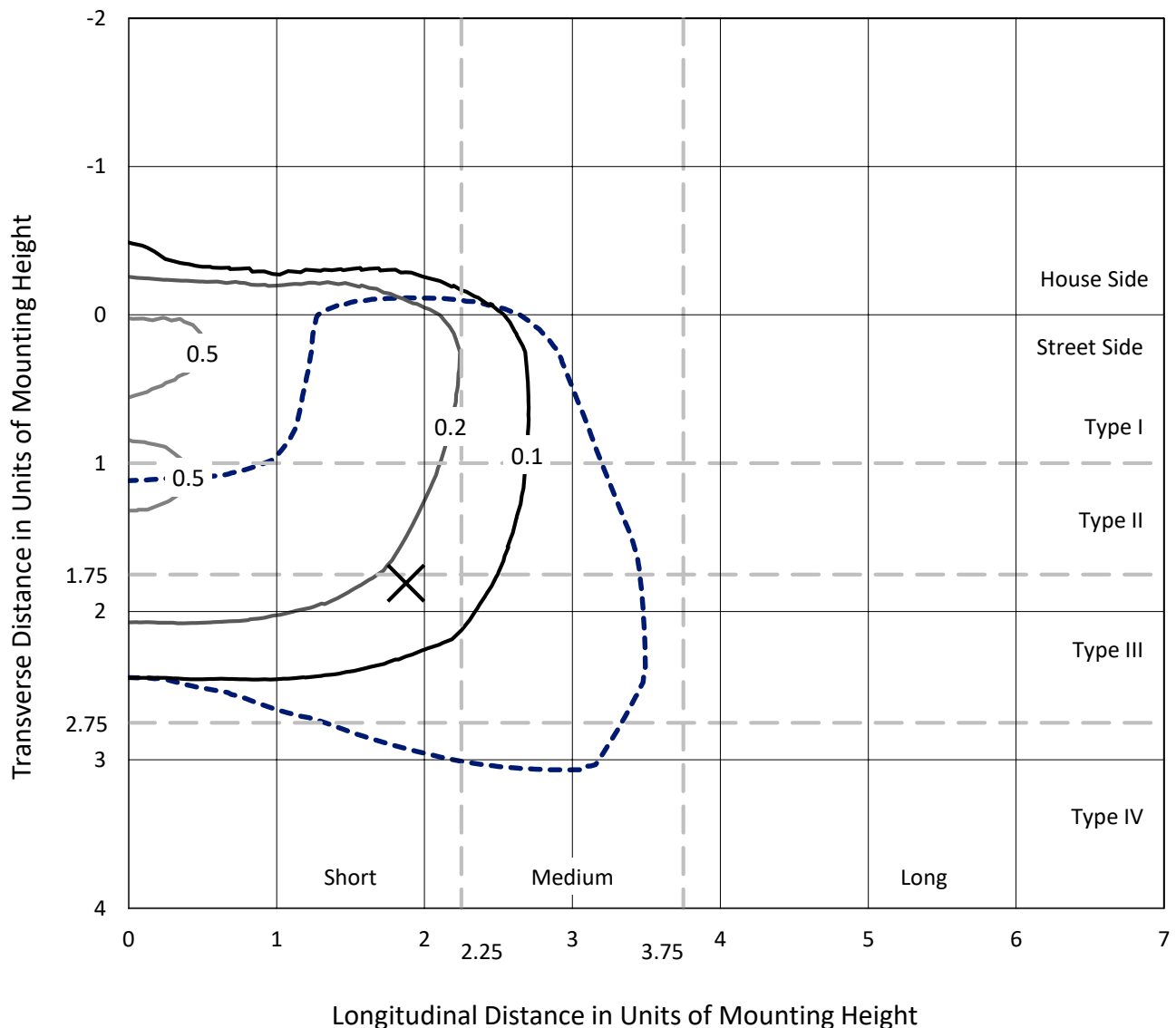
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322785
 CATALOG NUMBER: GAN-SA1A-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

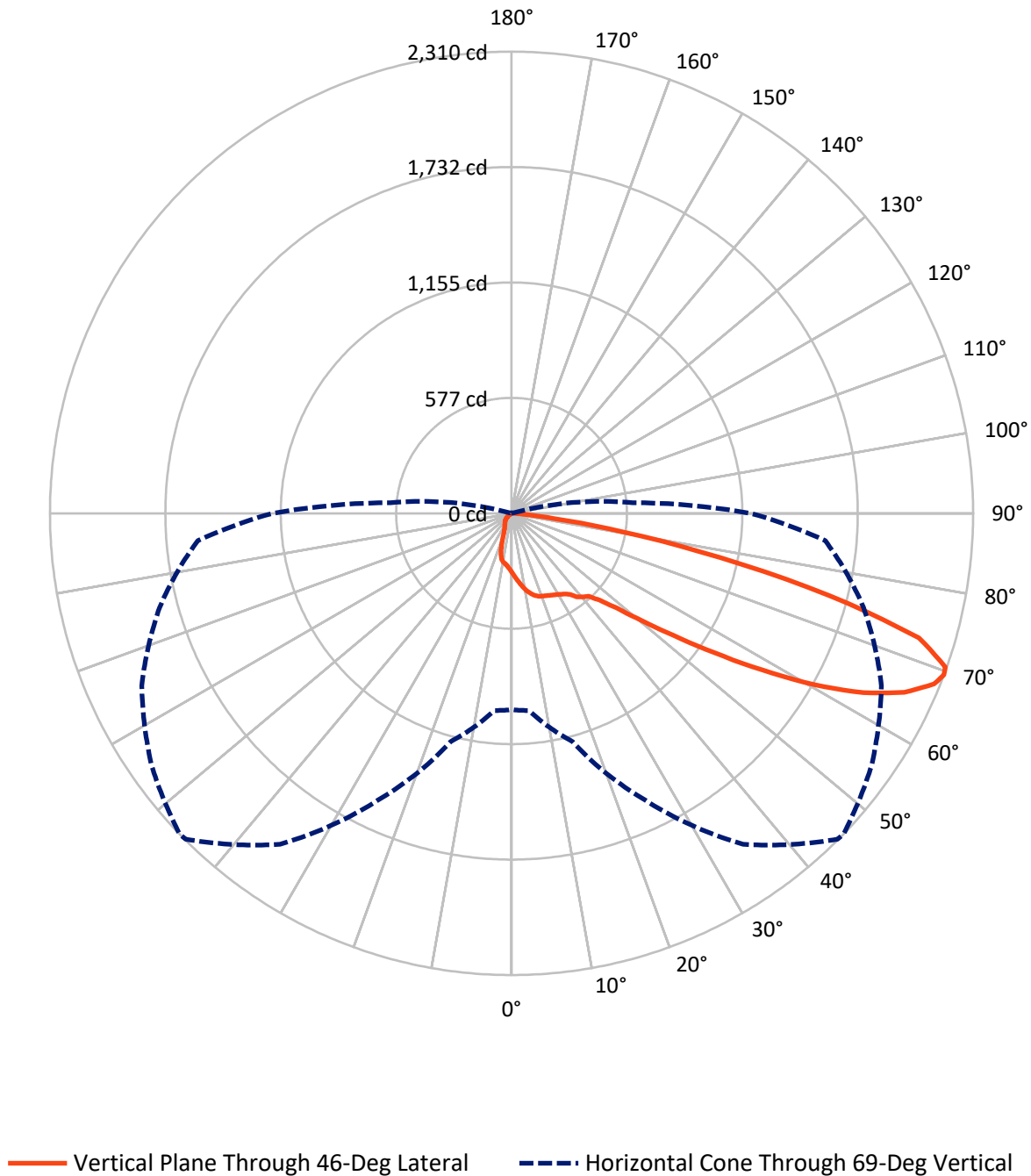
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P322785
CATALOG NUMBER: GAN-SA1A-727-U-T4W-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322785

CATALOG NUMBER: GAN-SA1A-727-U-T4W-HSS

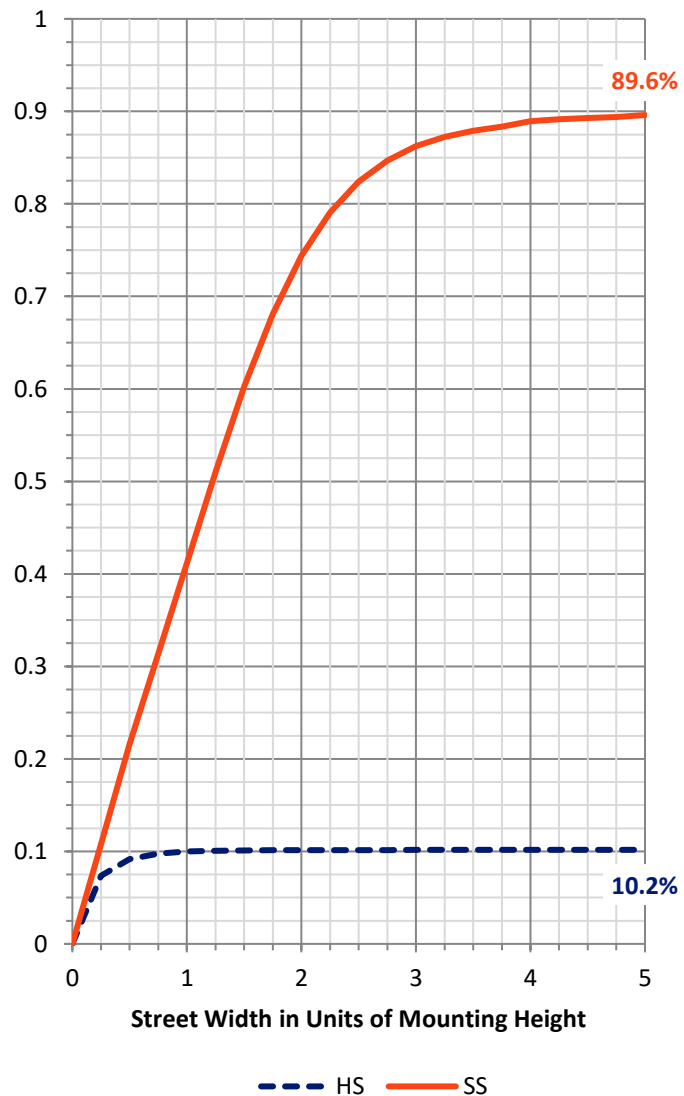
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	303.5	0.0	303.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	2653.5	0.0	2653.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	2957.0	0.0	2957.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.5	1.0
10°-20°	89.5	3.0
20°-30°	140.7	4.8
30°-40°	201.8	6.8
40°-50°	348.7	11.8
50°-60°	688.9	23.3
60°-70°	962.9	32.6
70°-80°	465.2	15.7
80°-90°	29.9	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°	2957.0	100.0
0°-180°	2957.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322785

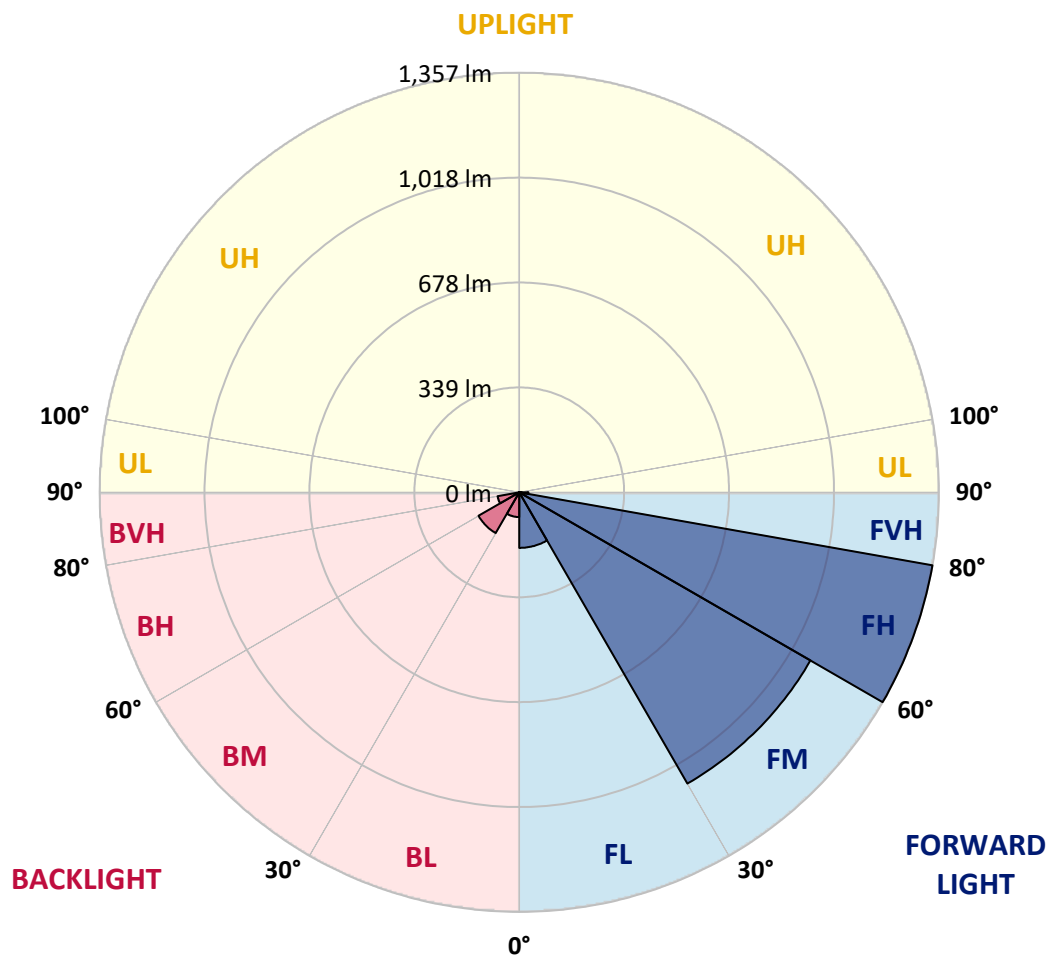
CATALOG NUMBER: GAN-SA1A-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	179.7	6.1			
FM	(30°-60°)	1087.4	36.8			
FH	(60°-80°)	1356.9	45.9			G1/1800
FVH	(80°-90°)	29.6	1.0			G1/100
BL	(0°-30°)	80.0	2.7	B0/110		
BM	(30°-60°)	152.1	5.1	B0/220		
BH	(60°-80°)	71.2	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



REPORT NUMBER: P322785

CATALOG NUMBER: GAN-SA1A-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	296.3	296.3	296.3	296.3	296.3	296.3	296.3	296.3	296.3	296.3	296.3
2.5°	329.1	328.7	326.8	325.9	321.2	318.5	317.4	313.9	308.9	303.9	298.4
5°	366.6	366.4	362.8	359.4	350.5	342.2	340.6	332.6	321.4	310.8	300.3
7.5°	404.8	403.0	399.4	392.8	379.9	366.6	365.3	354.0	338.0	322.8	307.6
10°	437.3	436.2	431.5	421.3	406.2	391.1	389.6	375.6	357.6	338.8	319.6
12.5°	462.5	461.7	455.4	442.8	426.7	411.1	409.0	396.5	377.2	356.3	333.6
15°	477.9	477.5	469.9	456.4	440.6	427.0	425.2	414.3	396.4	374.5	348.8
17.5°	481.5	481.6	473.7	460.2	447.1	437.4	436.0	427.7	412.7	391.0	364.1
20°	473.5	475.1	468.1	456.3	448.2	443.1	442.0	437.0	424.4	403.9	376.3
22.5°	462.1	462.9	458.1	450.2	446.8	447.8	447.3	444.5	433.8	415.0	388.3
25°	455.2	455.2	452.3	445.6	447.8	453.8	453.9	453.4	444.9	428.5	403.0
27.5°	454.9	454.1	450.7	445.7	451.8	461.0	461.5	465.3	460.0	445.0	421.3
30°	466.0	465.0	457.9	451.4	459.2	469.0	470.4	478.6	476.0	462.9	441.7
32.5°	491.9	488.4	472.8	462.1	467.9	479.7	481.5	494.5	498.7	485.0	461.4
35°	527.4	516.4	493.8	482.3	482.9	495.2	496.9	516.0	528.4	505.2	476.7
37.5°	576.3	570.9	534.2	503.4	505.9	524.6	529.5	550.3	546.8	516.3	494.0
40°	683.6	675.2	636.1	562.5	528.0	548.5	550.0	561.1	561.4	541.4	530.0
42.5°	829.8	826.3	785.1	669.6	571.3	564.4	567.2	585.9	606.8	594.4	593.8
45°	991.6	989.8	946.1	811.9	659.1	616.7	620.2	645.2	685.3	688.1	705.7
47.5°	1121.8	1120.9	1095.8	970.6	793.5	705.3	706.4	733.0	803.4	838.2	866.4
50°	1240.4	1244.5	1224.6	1142.4	976.5	844.1	841.4	859.2	972.3	1029.3	1064.2
52.5°	1405.4	1411.1	1355.5	1302.7	1168.5	1016.3	1014.2	1032.8	1175.3	1218.0	1224.2
55°	1551.1	1541.4	1497.5	1482.2	1402.7	1228.9	1228.4	1244.7	1371.6	1389.8	1401.3
57.5°	1615.5	1611.7	1632.9	1667.9	1647.9	1480.3	1479.0	1466.6	1547.3	1549.2	1584.6
60°	1656.1	1660.7	1725.7	1833.4	1883.2	1750.8	1742.7	1666.6	1715.0	1710.7	1748.6
62.5°	1625.6	1634.6	1751.6	1931.2	2059.3	1986.9	1975.5	1849.9	1858.4	1843.5	1878.8
65°	1463.7	1477.7	1669.4	1912.7	2146.6	2171.4	2159.9	2011.7	1972.2	1947.8	1928.2
67.5°	1188.4	1196.8	1397.0	1752.3	2107.2	2281.5	2279.2	2153.5	2058.2	1930.2	1778.5
69°	982.1	990.3	1183.0	1583.4	2020.6	2305.1	2309.7	2199.0	2041.8	1823.2	1575.8
70°	831.9	840.6	1020.1	1438.7	1920.1	2294.1	2302.3	2194.7	1994.9	1699.2	1397.9
72.5°	436.3	443.8	628.1	991.2	1565.3	2106.5	2131.4	2009.2	1691.0	1234.1	826.6
75°	137.1	141.4	245.3	518.1	1071.7	1637.9	1643.6	1576.1	1200.8	678.8	344.3
77.5°	52.3	51.0	81.7	190.9	541.8	1031.4	1066.2	984.9	630.1	240.0	79.4
80°	28.1	28.3	42.4	79.0	231.8	530.0	559.4	477.3	223.9	74.9	18.3
82.5°	12.2	12.8	23.8	41.9	106.5	195.5	210.2	175.0	85.5	50.3	6.8
85°	2.6	2.9	11.5	22.7	43.4	54.9	57.5	56.7	54.5	39.1	2.6
87.5°	0.0	0.0	5.1	8.2	11.0	12.5	11.0	14.3	30.1	26.3	1.4
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: P322785

CATALOG NUMBER: GAN-SA1A-727-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	296.3	296.3	296.3	296.3	296.3	296.3	296.3	296.3	296.3	296.3	296.3
2.5°	296.6	294.1	289.8	285.1	281.7	278.3	275.5	274.2	272.8	271.9	273.1
5°	296.0	291.2	282.8	274.8	269.0	264.3	260.4	258.8	257.3	256.2	256.1
7.5°	300.9	294.1	281.3	269.5	260.5	254.1	248.9	246.6	244.8	244.0	243.3
10°	310.1	301.4	284.4	269.0	257.3	246.5	235.1	226.4	220.7	218.1	217.1
12.5°	322.2	311.3	290.2	271.9	255.0	234.2	210.0	189.2	175.8	171.4	168.7
15°	336.3	322.8	297.8	275.6	246.4	208.4	167.5	140.3	127.8	125.3	122.6
17.5°	349.9	335.0	307.0	276.3	227.5	166.5	122.7	104.3	99.4	101.1	101.5
20°	361.9	347.0	316.0	270.2	193.3	124.9	95.0	90.4	92.2	95.4	95.9
22.5°	373.9	358.7	324.3	254.1	149.5	94.8	85.5	86.7	88.5	91.6	92.2
25°	388.6	372.8	332.1	224.6	112.2	80.7	81.2	82.9	84.7	87.6	87.9
27.5°	405.5	390.7	337.2	186.2	83.2	74.2	76.0	78.5	80.3	83.0	83.6
30°	428.0	414.3	338.8	146.4	69.7	68.4	69.2	72.2	74.9	77.4	77.8
32.5°	449.1	437.6	333.3	110.5	64.6	62.9	62.9	64.7	67.8	70.2	70.7
35°	468.5	461.0	315.6	80.8	60.7	58.0	56.6	56.6	58.5	60.4	61.0
37.5°	494.1	493.8	286.9	64.5	57.0	53.8	50.9	48.7	48.0	48.4	48.7
40°	538.1	538.5	249.4	57.8	53.8	49.5	45.1	41.0	37.3	36.0	35.9
42.5°	606.7	600.5	210.2	54.6	51.0	45.1	38.4	33.0	27.2	25.4	25.2
45°	715.7	678.7	168.6	51.7	48.1	40.1	31.7	24.4	19.7	18.3	18.3
47.5°	874.4	781.4	130.6	48.5	44.2	34.4	24.0	17.6	14.4	13.7	13.9
50°	1038.6	882.0	100.1	44.5	39.5	28.4	17.7	12.8	11.0	11.0	11.1
52.5°	1184.2	955.8	78.1	40.2	33.7	22.3	13.4	10.0	9.2	9.0	9.2
55°	1320.4	1003.4	59.8	35.2	26.8	16.6	10.3	8.2	7.6	7.3	7.2
57.5°	1451.9	1026.9	44.8	28.4	19.4	12.1	8.2	6.9	6.4	6.0	5.8
60°	1539.4	1007.8	30.8	20.9	13.4	8.7	6.8	6.0	5.3	4.9	4.7
62.5°	1588.7	955.5	19.8	15.1	9.6	6.5	5.4	5.0	4.0	3.6	3.6
65°	1568.7	869.3	13.9	10.8	6.9	4.9	4.0	4.0	2.9	2.4	2.2
67.5°	1390.2	734.4	10.5	8.0	5.0	3.6	3.1	3.5	1.8	1.1	1.1
69°	1196.1	608.6	9.0	6.7	4.2	2.9	2.6	3.2	1.2	0.8	0.7
70°	1039.5	525.0	8.2	5.8	3.5	2.5	2.4	3.1	1.2	0.7	0.6
72.5°	622.0	292.8	6.2	4.2	2.2	1.9	1.9	3.5	1.2	0.7	0.6
75°	251.4	103.2	4.6	2.9	1.7	1.7	2.4	4.4	1.1	0.6	0.4
77.5°	57.0	22.6	2.6	1.8	1.1	1.7	2.8	3.5	0.7	0.3	0.0
80°	13.9	5.5	1.7	1.1	0.7	1.2	2.1	1.9	0.1	0.0	0.0
82.5°	4.6	1.9	0.7	0.6	0.1	0.4	1.0	0.6	0.0	0.0	0.0
85°	1.9	1.1	0.3	0.1	0.0	0.0	0.1	0.0	0.0	0.0	0.0
87.5°	1.2	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)