

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: P322035

Luminaire Tested: **GAN-SA1B-827-U-T2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322035
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-827-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3129 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
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

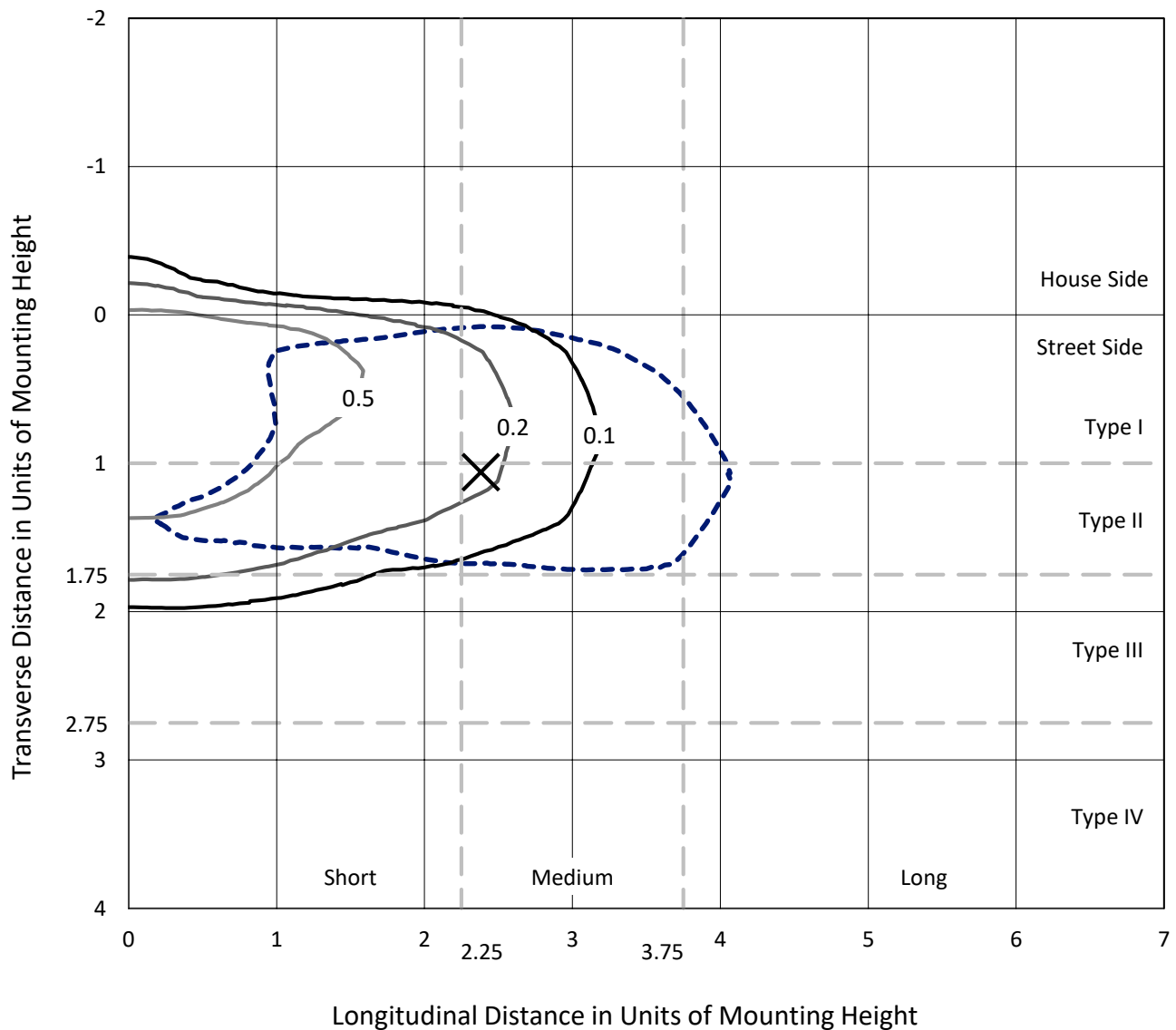


REPORT NUMBER: P322035

CATALOG NUMBER: GAN-SA1B-827-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

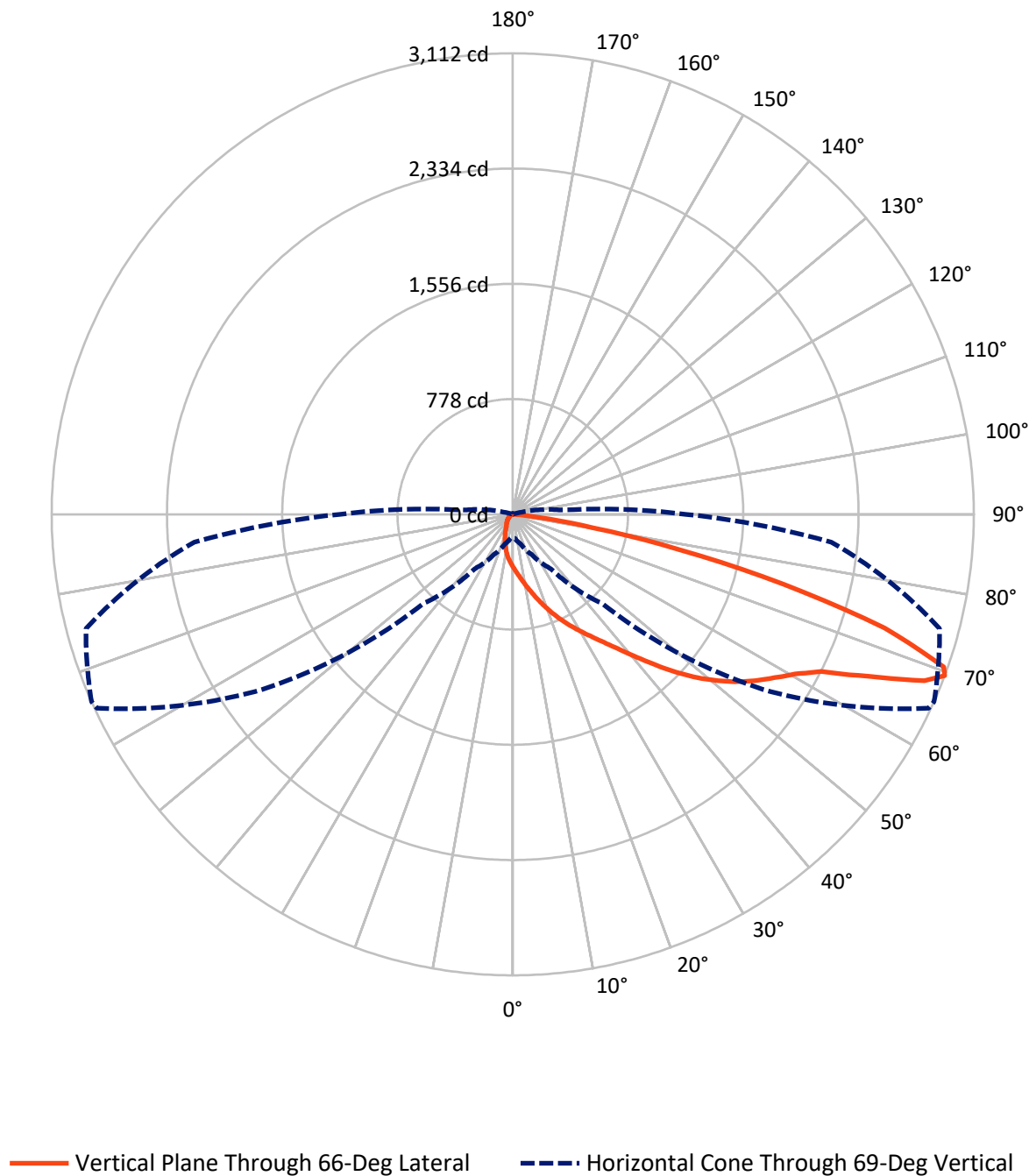
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P322035
CATALOG NUMBER: GAN-SA1B-827-U-T2-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P322035

CATALOG NUMBER: GAN-SA1B-827-U-T2-HSS

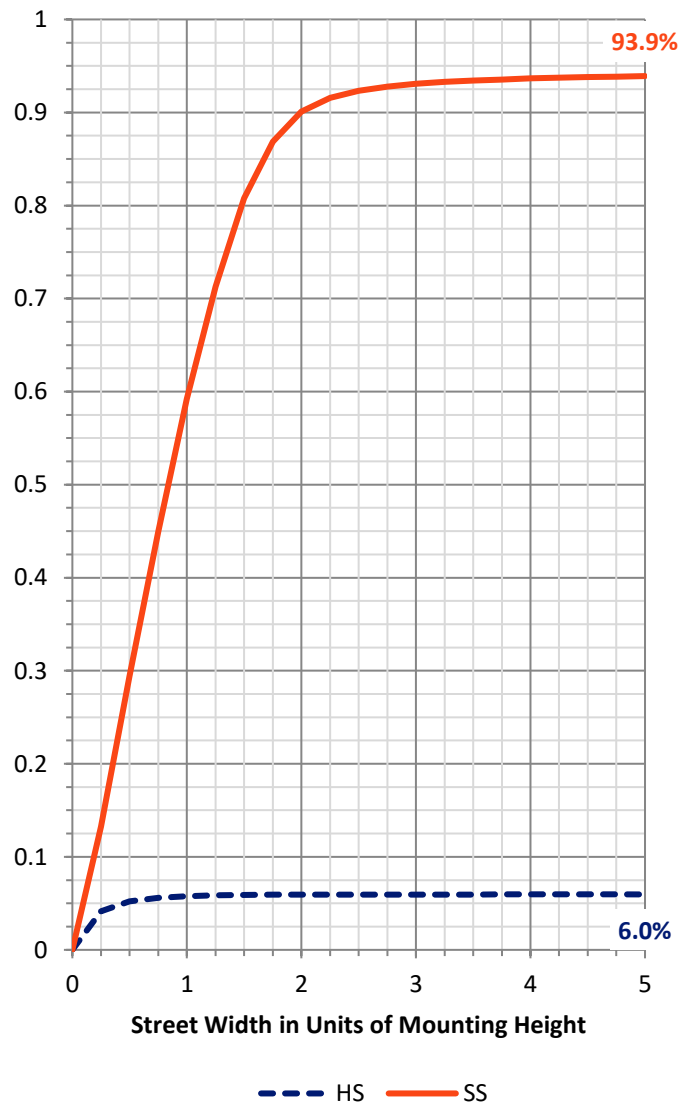
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	187.7	0.0	187.7
	% Fixture	6.0	0.0	6.0
Street Side	Lumens	2941.3	0.0	2941.3
	% Fixture	94.0	0.0	94.0
Total	Lumens	3129.0	0.0	3129.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.4	1.1
10°-20°	102.4	3.3
20°-30°	178.4	5.7
30°-40°	313.0	10.0
40°-50°	523.9	16.7
50°-60°	770.1	24.6
60°-70°	790.7	25.3
70°-80°	390.3	12.5
80°-90°	25.8	0.8
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°	3129.0	100.0
0°-180°	3129.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322035

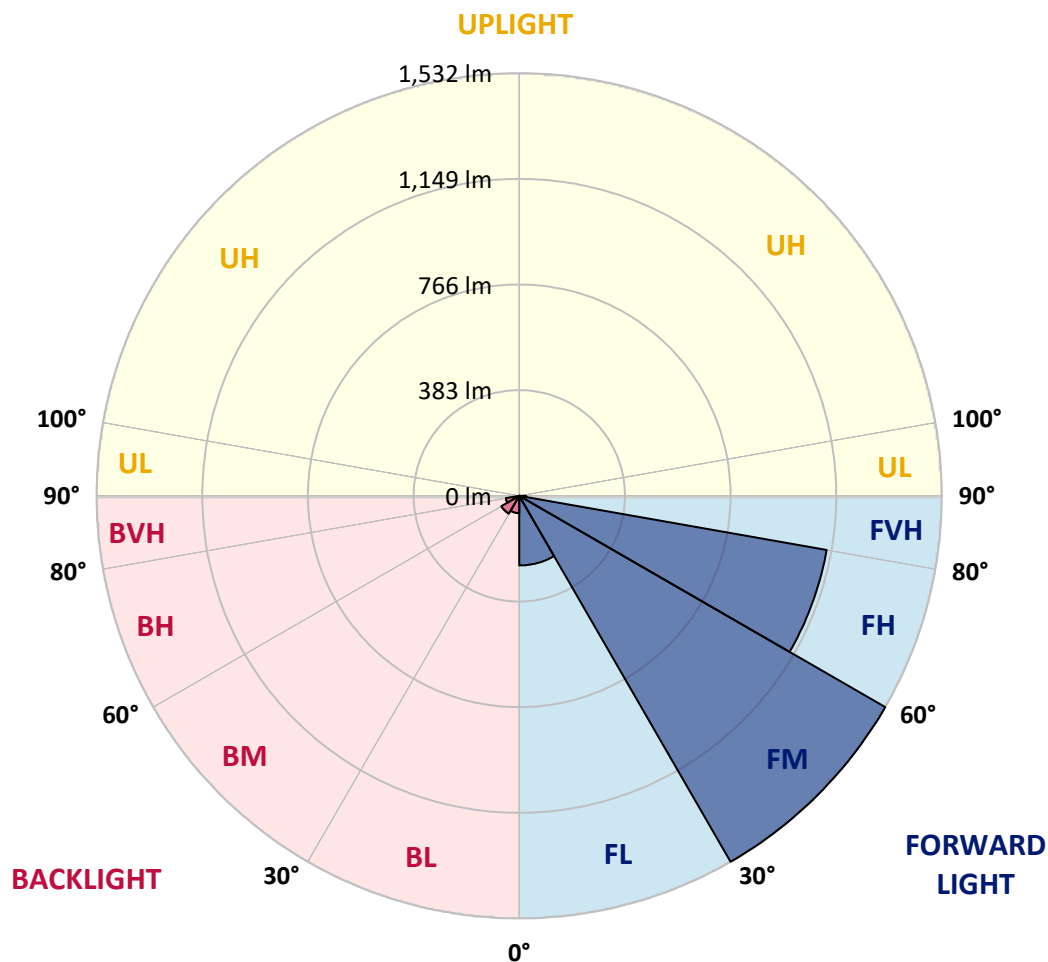
CATALOG NUMBER: GAN-SA1B-827-U-T2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	252.5	8.1			
FM	(30°-60°)	1532.1	49.0			
FH	(60°-80°)	1131.5	36.2			G1/1800
FVH	(80°-90°)	25.2	0.8			G1/100
BL	(0°-30°)	62.8	2.0	B0/110		
BM	(30°-60°)	74.8	2.4	B0/220		
BH	(60°-80°)	49.5	1.6	B0/110		G0/110
BVH	(80°-90°)	0.6	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 II Medium





REPORT NUMBER: P322035

CATALOG NUMBER: GAN-SA1B-827-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	356.1	356.1	356.1	356.1	356.1	356.1	356.1	356.1	356.1	356.1	356.1
2.5°	419.1	417.3	416.6	413.3	407.7	403.4	395.0	385.4	383.6	374.2	362.8
5°	473.5	472.0	471.0	466.4	460.6	449.7	434.6	416.6	413.2	395.3	372.4
7.5°	511.4	514.1	514.1	511.1	503.8	495.6	477.1	452.5	448.2	420.9	385.4
10°	533.5	536.8	539.3	541.9	540.8	537.6	520.0	492.4	487.2	450.9	400.4
12.5°	535.6	538.9	546.0	556.6	566.8	574.3	563.3	536.5	530.6	485.7	418.2
15°	524.0	527.4	538.4	559.0	583.8	605.5	609.0	585.4	579.3	527.2	440.5
17.5°	503.8	506.0	521.8	550.2	589.1	629.0	650.5	637.9	632.2	574.6	465.3
20°	488.8	490.4	504.3	534.7	585.9	643.7	689.7	693.6	687.7	625.4	492.2
22.5°	514.5	517.5	517.9	532.4	576.9	650.9	724.2	748.4	744.0	679.3	518.7
25°	584.8	588.2	576.9	568.0	584.5	654.2	753.8	804.6	801.1	737.4	545.3
27.5°	677.7	681.3	666.7	640.1	624.2	666.6	780.1	861.7	861.5	799.0	574.0
30°	769.0	772.5	757.7	731.1	694.5	701.5	802.8	921.4	922.3	862.4	604.4
32.5°	864.7	869.1	853.8	819.6	781.4	761.8	834.8	981.5	986.5	936.0	638.8
35°	973.5	974.0	952.5	916.7	872.7	842.5	886.1	1048.8	1060.8	1027.1	682.3
37.5°	1080.2	1084.5	1066.8	1010.3	969.9	935.7	962.3	1132.9	1150.0	1138.4	739.2
40°	1159.2	1168.3	1165.8	1104.8	1066.5	1042.1	1057.0	1232.9	1254.6	1268.0	811.0
42.5°	1208.9	1215.7	1227.3	1190.6	1155.8	1159.8	1168.7	1349.5	1376.2	1415.7	893.5
45°	1265.8	1269.1	1278.7	1262.5	1239.0	1279.5	1287.3	1480.7	1508.8	1574.6	985.0
47.5°	1335.3	1343.1	1345.7	1330.9	1320.2	1385.3	1401.6	1600.0	1639.4	1744.8	1081.9
50°	1423.9	1426.0	1430.6	1420.9	1410.2	1476.2	1504.2	1725.3	1761.1	1915.5	1177.5
52.5°	1510.6	1518.0	1534.0	1527.9	1523.6	1553.7	1595.6	1838.3	1878.2	2057.9	1272.9
55°	1535.5	1541.9	1597.4	1635.3	1670.3	1649.1	1683.0	1939.5	1982.7	2185.1	1364.8
57.5°	1435.8	1448.7	1544.7	1643.4	1788.9	1797.4	1803.0	2043.4	2082.1	2282.6	1460.3
60°	1183.7	1186.3	1343.8	1513.1	1769.3	1926.8	1978.4	2155.0	2187.5	2373.4	1574.8
62.5°	752.9	778.6	951.5	1190.4	1561.8	1908.1	2190.5	2323.8	2335.7	2482.4	1738.8
65°	358.6	375.3	499.8	735.5	1131.3	1668.4	2336.9	2629.2	2634.6	2698.3	1958.1
67.5°	198.6	206.6	265.9	395.9	661.4	1179.9	2277.7	2990.9	2996.0	2918.9	2150.4
69°	155.3	162.1	208.8	298.4	448.4	848.0	2061.2	3096.9	3111.9	2982.0	2157.2
70°	131.8	138.5	179.8	252.1	360.5	655.3	1834.7	3070.6	3086.5	2976.1	2106.2
72.5°	80.7	84.6	119.8	177.5	241.7	329.6	1131.4	2596.8	2623.7	2730.0	1810.2
75°	54.4	56.5	74.9	122.5	172.8	169.7	587.8	1830.4	1888.6	2123.6	1337.0
77.5°	38.9	40.9	50.2	79.2	121.1	112.1	266.2	1137.5	1150.0	1273.7	729.1
80°	22.1	23.9	35.5	47.1	82.2	74.8	105.8	543.3	549.6	546.2	243.4
82.5°	11.6	13.1	19.5	31.1	52.8	48.9	44.0	181.9	182.8	152.0	53.4
85°	2.2	2.7	9.7	21.3	27.2	21.3	18.0	42.7	43.5	38.5	13.2
87.5°	0.0	0.1	3.9	4.8	5.4	5.5	5.8	8.3	8.9	12.0	3.6
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: P322035

CATALOG NUMBER: GAN-SA1B-827-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	356.1	356.1	356.1	356.1	356.1	356.1	356.1	356.1	356.1	356.1	356.1
2.5°	357.7	352.4	342.1	330.2	321.0	312.0	304.8	297.4	294.7	293.4	293.2
5°	361.3	350.0	328.3	306.0	287.7	270.5	258.2	246.4	240.9	238.4	237.3
7.5°	367.2	349.1	314.2	280.1	253.8	232.3	215.2	202.4	196.0	193.4	192.3
10°	374.2	347.9	297.7	252.8	219.2	196.9	180.0	167.3	160.4	157.4	155.9
12.5°	382.4	345.8	278.7	225.2	189.6	167.3	146.8	131.2	123.2	119.8	118.2
15°	392.5	343.8	258.7	199.1	163.6	136.4	114.0	103.4	101.8	101.2	101.4
17.5°	402.5	340.5	237.0	173.4	136.3	106.6	95.1	94.5	94.8	94.8	94.8
20°	411.4	333.1	213.4	151.4	110.3	89.9	87.5	86.5	85.8	85.2	84.4
22.5°	418.4	323.1	190.7	129.6	90.1	82.3	78.6	75.3	72.7	70.9	70.0
25°	423.1	309.9	169.9	108.6	81.0	74.9	68.2	62.7	58.6	56.0	55.0
27.5°	426.7	295.6	151.3	91.0	74.8	66.3	57.5	51.0	46.7	44.4	43.5
30°	429.2	279.4	134.9	80.0	67.8	57.2	47.9	41.5	38.3	37.2	36.6
32.5°	431.6	261.4	119.5	74.8	61.2	48.9	40.1	35.2	33.3	31.8	31.4
35°	437.5	244.8	104.8	69.3	54.5	41.8	34.5	30.9	29.0	28.1	27.8
37.5°	451.7	232.4	90.7	63.6	47.9	36.1	30.2	27.6	25.9	25.0	24.7
40°	474.4	226.2	78.8	57.5	41.3	31.8	27.3	25.0	23.0	21.7	21.4
42.5°	507.8	227.1	70.4	51.4	36.1	28.4	24.7	21.8	19.8	18.6	18.3
45°	548.4	233.6	64.6	45.5	31.8	25.7	21.7	18.7	16.8	15.8	15.5
47.5°	592.4	244.2	59.9	40.1	28.4	23.2	18.7	15.6	14.0	13.1	12.9
50°	638.8	254.4	55.0	34.9	25.4	20.7	15.8	12.9	11.6	10.8	10.6
52.5°	685.7	266.3	50.5	30.2	22.9	17.7	13.1	10.6	9.5	8.9	8.6
55°	736.3	275.2	46.2	26.5	20.4	15.0	10.8	8.8	7.9	7.1	7.0
57.5°	795.7	289.1	41.8	22.9	17.4	12.5	8.9	7.0	6.2	5.5	5.4
60°	876.0	305.3	37.0	20.2	14.3	10.3	7.3	5.6	4.8	4.2	4.0
62.5°	981.8	323.2	31.1	17.7	11.6	8.3	5.8	4.5	3.4	2.7	2.7
65°	1116.0	352.5	25.4	14.9	9.5	6.8	4.5	3.3	1.9	1.2	1.2
67.5°	1194.3	357.6	20.5	12.2	7.7	5.8	3.7	2.2	0.6	0.1	0.0
69°	1169.2	328.3	17.4	10.4	6.7	5.5	3.4	1.6	0.3	0.0	0.0
70°	1121.9	300.2	15.3	9.2	6.1	5.2	3.3	1.2	0.3	0.0	0.0
72.5°	927.1	213.7	11.6	6.8	4.5	4.6	3.0	0.7	0.3	0.0	0.0
75°	675.3	129.9	8.3	4.8	2.8	3.4	2.1	0.3	0.1	0.0	0.0
77.5°	375.7	61.2	5.2	2.7	1.8	2.1	1.0	0.0	0.0	0.0	0.0
80°	122.0	16.6	2.4	1.5	1.0	1.2	0.4	0.0	0.0	0.0	0.0
82.5°	22.6	4.8	1.3	0.7	0.3	0.3	0.0	0.0	0.0	0.0	0.0
85°	4.9	1.9	0.7	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.6	0.1	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)