

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: P317985

Luminaire Tested: **GAN-SA1A-727-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317985
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-12)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-727-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4003 lumens
Efficiency: N/A
Efficacy: 117.7 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

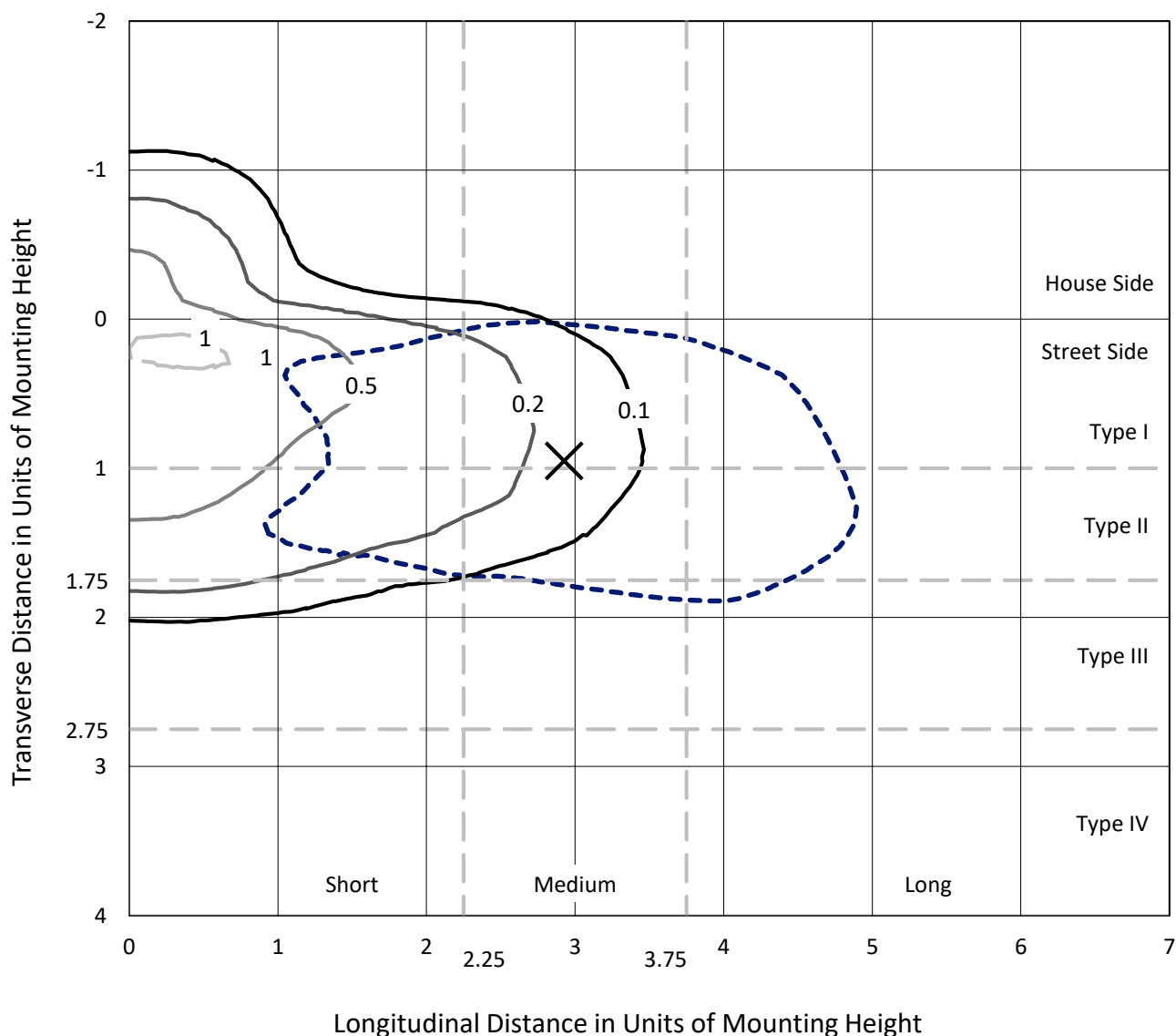
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

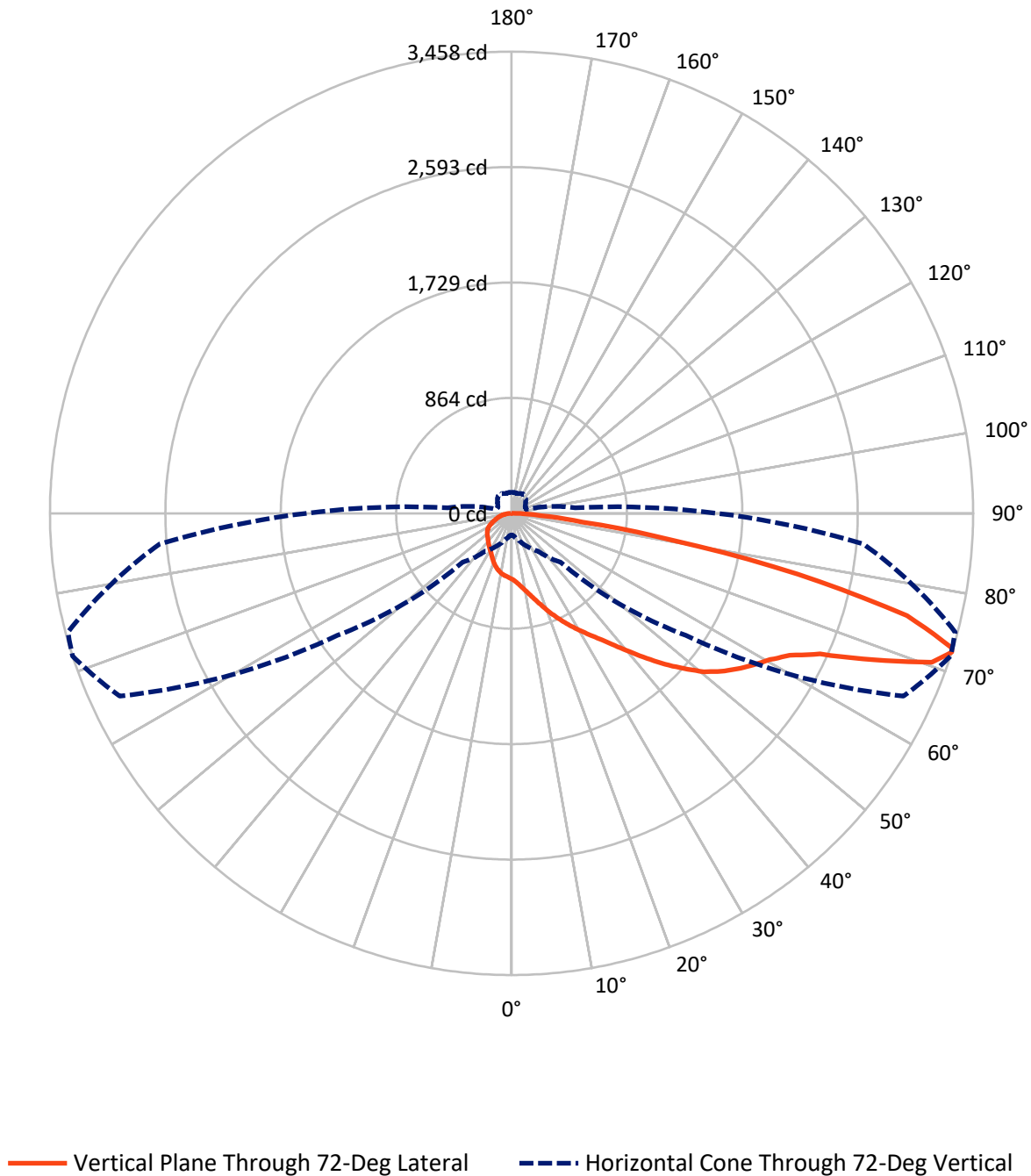
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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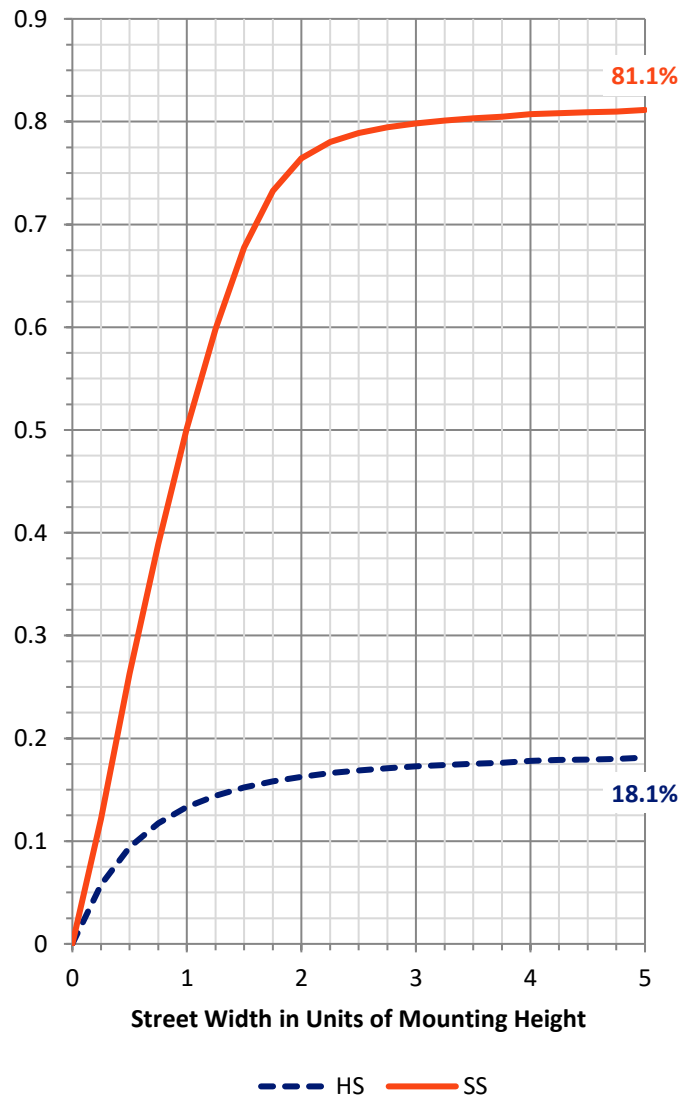
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	742.6	0.0	742.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3260.4	0.0	3260.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	4003.0	0.0	4003.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	1.2
10°-20°	159.5	4.0
20°-30°	279.4	7.0
30°-40°	414.3	10.4
40°-50°	606.0	15.1
50°-60°	833.8	20.8
60°-70°	928.3	23.2
70°-80°	629.0	15.7
80°-90°	103.4	2.6
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°	4003.0	100.0
0°-180°	4003.0	100.0

Coefficient of Utilization



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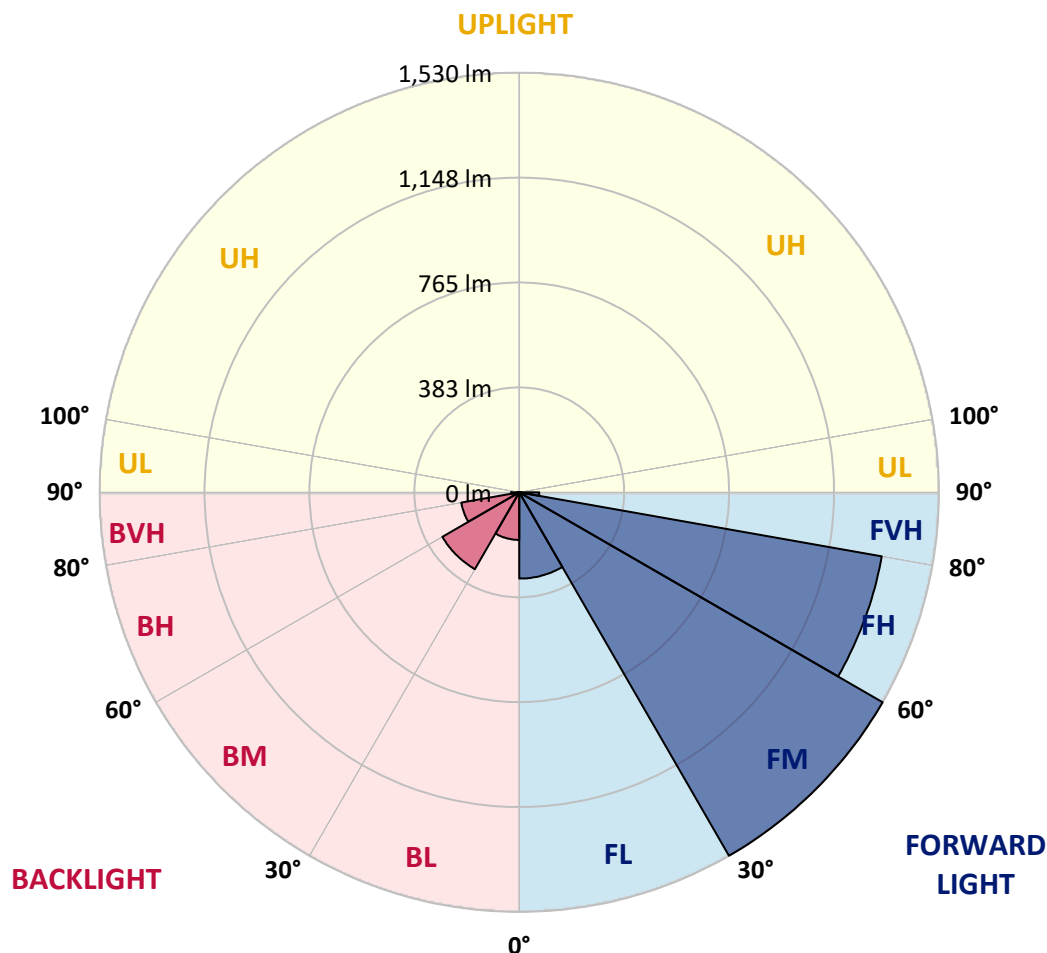
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	314.7	7.9			
FM	(30°-60°)	1530.4	38.2			
FH	(60°-80°)	1342.4	33.5			G1/1800
FVH	(80°-90°)	72.9	1.8			G1/100
BL	(0°-30°)	173.6	4.3	B1/500		
BM	(30°-60°)	323.7	8.1	B1/1000		
BH	(60°-80°)	214.8	5.4	B1/500		G1/500
BVH	(80°-90°)	30.5	0.8			G1/100
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°	55°	65°	72°	75°	85°
0°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5
2.5°	544.0	543.2	540.3	540.3	534.8	530.1	521.3	515.4	508.3	505.8	497.6
5°	596.7	597.0	593.4	590.9	582.8	572.8	557.8	544.2	530.5	525.0	508.0
7.5°	640.9	640.4	639.4	637.3	629.8	619.6	599.3	579.0	558.9	550.6	521.4
10°	669.3	670.6	671.4	672.3	669.2	661.9	642.7	618.0	591.7	580.4	537.4
12.5°	683.6	685.9	689.7	696.3	701.6	700.7	686.8	660.6	629.3	615.1	557.4
15°	692.1	694.9	701.0	712.9	727.6	736.0	732.3	708.6	673.7	656.2	581.8
17.5°	697.3	699.6	709.0	724.9	746.8	769.1	778.9	759.0	723.9	703.9	609.8
20°	700.9	702.7	714.4	733.0	761.4	796.9	824.2	819.3	779.2	753.3	639.0
22.5°	708.9	710.4	721.6	740.3	771.7	817.6	867.9	875.4	837.5	808.1	670.3
25°	731.2	731.2	740.6	753.7	783.2	835.5	904.9	937.8	897.0	862.8	699.2
27.5°	773.8	773.4	776.8	781.4	803.7	853.7	937.8	992.9	958.8	921.4	727.3
30°	824.2	827.0	827.4	825.2	835.7	876.5	968.3	1051.1	1020.9	980.7	756.1
32.5°	889.2	890.9	888.9	881.6	880.1	908.7	998.2	1112.0	1088.2	1042.6	782.5
35°	971.6	968.1	961.7	946.8	932.6	951.9	1032.4	1172.9	1163.7	1117.4	818.7
37.5°	1059.9	1060.1	1052.1	1018.3	998.7	1007.0	1079.5	1242.0	1255.1	1206.4	865.2
40°	1130.8	1134.5	1139.5	1095.1	1069.7	1081.2	1139.5	1322.1	1363.2	1312.0	925.7
42.5°	1180.3	1184.5	1198.6	1170.7	1144.4	1165.6	1210.0	1407.5	1484.4	1433.9	996.5
45°	1232.6	1235.0	1244.9	1232.9	1216.1	1263.9	1289.6	1496.0	1612.8	1563.7	1075.8
47.5°	1287.8	1290.2	1300.4	1292.4	1283.6	1355.7	1372.5	1579.4	1735.7	1706.4	1160.4
50°	1355.9	1357.5	1367.2	1352.7	1355.4	1424.9	1446.7	1655.9	1864.6	1834.5	1245.3
52.5°	1448.8	1449.2	1462.5	1449.4	1436.5	1475.6	1510.5	1728.0	1965.6	1951.4	1330.2
55°	1521.5	1525.9	1569.8	1567.0	1559.6	1521.7	1563.8	1796.6	2055.8	2062.5	1420.4
57.5°	1475.1	1492.3	1581.1	1643.6	1704.6	1636.2	1635.9	1874.0	2139.6	2171.5	1519.5
60°	1291.9	1315.3	1446.1	1584.9	1775.6	1835.5	1785.6	1968.4	2224.2	2279.6	1643.6
62.5°	922.6	961.2	1138.5	1360.1	1678.2	1967.6	2090.2	2118.2	2339.3	2404.8	1805.0
65°	466.4	495.6	644.2	911.2	1340.8	1881.3	2421.3	2446.2	2539.3	2597.4	2053.6
67.5°	283.4	294.4	366.9	506.8	822.0	1465.4	2529.4	2993.0	2926.3	2957.2	2407.9
70°	208.8	216.9	262.2	336.6	472.8	859.9	2197.7	3383.2	3339.4	3335.9	2669.8
72°	162.6	168.6	208.5	271.9	345.7	515.9	1592.9	3239.2	3457.7	3440.3	2645.8
72.5°	154.2	159.5	195.9	256.0	326.7	467.7	1432.2	3142.0	3449.1	3441.2	2614.8
75°	121.4	125.2	145.0	197.9	255.7	265.3	784.8	2434.9	3059.7	3186.9	2351.8
77.5°	100.5	101.0	111.5	144.0	199.3	187.6	385.5	1689.4	2191.0	2330.9	1666.0
80°	81.9	82.6	87.5	101.0	150.8	138.8	183.0	971.4	1226.7	1228.2	792.3
82.5°	65.2	65.3	70.8	73.9	108.3	99.2	104.9	456.1	536.0	515.6	284.8
85°	45.9	44.9	69.2	60.6	70.8	63.7	57.9	180.6	221.6	212.0	89.2
87.5°	15.3	15.9	30.7	39.3	41.3	36.1	25.8	69.2	83.7	83.0	28.3
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°	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5	492.5
2.5°	495.0	490.5	484.1	476.9	471.2	465.5	461.2	459.0	456.5	454.4	456.9
5°	500.2	491.9	478.1	464.6	454.7	445.9	439.5	436.2	433.2	431.1	431.4
7.5°	508.7	495.4	472.2	452.5	438.7	429.2	422.7	420.5	418.6	418.0	418.7
10°	517.8	498.1	464.4	438.2	422.5	414.6	411.7	413.2	414.6	415.8	417.2
12.5°	528.2	500.6	452.9	421.4	408.0	405.0	407.8	414.5	419.3	422.2	424.0
15°	541.7	502.8	439.7	404.5	395.6	399.0	408.8	420.2	428.7	434.0	434.9
17.5°	554.1	502.7	422.7	387.6	385.5	395.6	410.3	426.5	437.8	445.3	446.9
20°	566.9	499.0	403.0	371.0	375.3	391.9	411.0	430.4	444.1	452.9	455.0
22.5°	578.9	492.5	381.4	356.0	366.8	386.9	408.4	428.1	441.8	448.9	451.1
25°	587.0	481.2	359.5	343.3	359.2	380.8	399.9	415.7	425.9	429.5	430.0
27.5°	591.2	466.4	338.8	332.3	351.3	370.9	384.0	391.9	394.8	394.5	393.9
30°	591.7	447.0	321.0	323.4	342.2	356.3	362.5	361.0	357.3	350.9	351.5
32.5°	589.9	425.1	306.1	314.8	330.7	338.5	338.8	331.5	321.6	311.5	308.7
35°	590.5	403.6	293.0	305.2	316.6	320.0	316.9	306.1	292.6	279.7	276.9
37.5°	596.5	384.8	281.7	294.0	301.0	301.9	297.3	286.0	276.1	263.4	262.3
40°	611.0	371.5	271.0	281.5	285.4	285.9	279.4	271.4	272.2	265.5	265.3
42.5°	637.1	365.7	261.5	268.4	270.8	271.7	266.7	261.6	268.8	264.4	262.8
45°	670.7	367.0	253.5	255.5	260.1	263.9	260.9	254.7	257.5	238.3	232.0
47.5°	709.6	375.9	247.1	244.5	252.4	259.7	255.0	245.6	235.8	216.8	213.2
50°	755.0	389.5	241.3	233.6	244.0	253.9	249.2	235.8	221.1	211.8	210.6
52.5°	802.5	406.2	235.6	221.6	233.3	249.5	247.1	233.6	215.4	206.3	204.7
55°	856.2	423.0	228.2	207.7	221.9	247.4	246.2	225.6	211.2	206.1	204.8
57.5°	923.1	442.2	218.6	193.2	211.2	240.0	236.1	220.8	206.7	202.9	202.5
60°	1010.2	470.4	204.7	177.8	198.1	228.5	227.7	213.8	199.7	197.0	196.4
62.5°	1140.8	517.1	185.5	162.4	183.5	209.1	216.7	204.3	192.3	192.1	192.4
65°	1343.4	587.4	164.7	148.9	168.7	192.7	203.9	194.5	184.7	187.5	187.9
67.5°	1578.3	645.7	144.3	135.6	153.7	177.1	192.3	184.7	174.6	181.8	181.9
70°	1656.5	593.6	126.4	122.5	138.1	162.1	179.7	173.9	163.7	170.9	170.2
72°	1541.5	479.2	114.8	112.6	126.4	149.7	168.6	163.9	153.8	158.6	156.9
72.5°	1505.3	456.9	111.9	110.1	123.2	146.5	165.7	161.4	151.3	155.5	153.8
75°	1342.8	396.8	96.2	96.6	107.5	131.1	149.4	148.0	137.7	138.1	137.6
77.5°	973.9	291.0	81.0	83.8	91.5	115.2	133.0	132.2	120.9	118.8	118.4
80°	452.0	148.4	66.0	67.3	75.3	96.3	113.4	112.3	103.2	100.6	99.1
82.5°	154.8	70.6	49.6	50.4	58.3	77.6	98.4	97.7	90.1	85.0	81.9
85°	55.3	35.1	34.7	33.9	41.6	61.1	85.7	82.0	70.8	60.4	60.1
87.5°	17.9	15.0	17.9	17.8	24.3	41.3	62.3	53.1	51.4	42.7	41.9
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)