

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: P318635

Luminaire Tested: **GAN-SA1B-727-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318635
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5034 lumens
Efficiency: N/A
Efficacy: 114.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

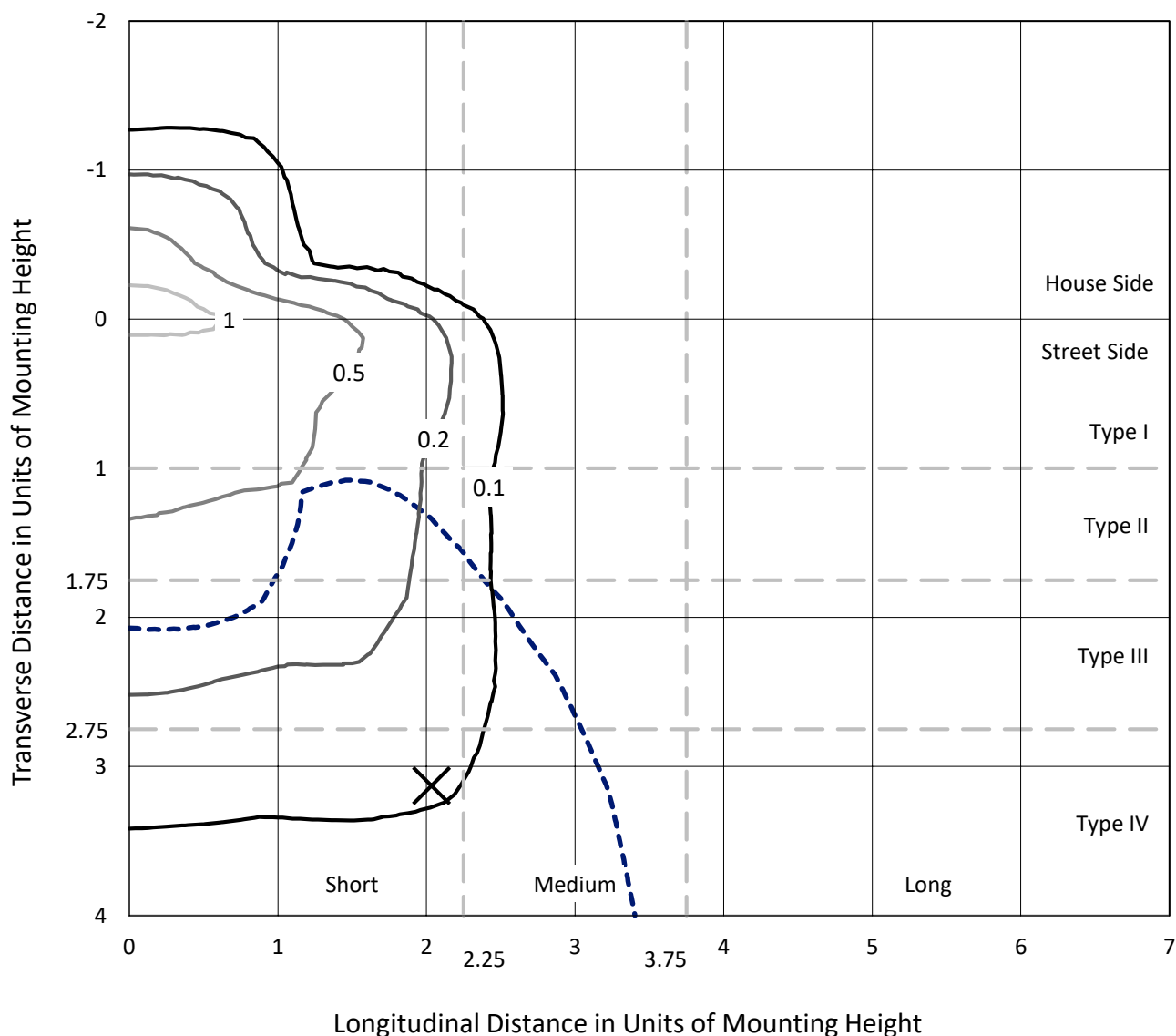
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

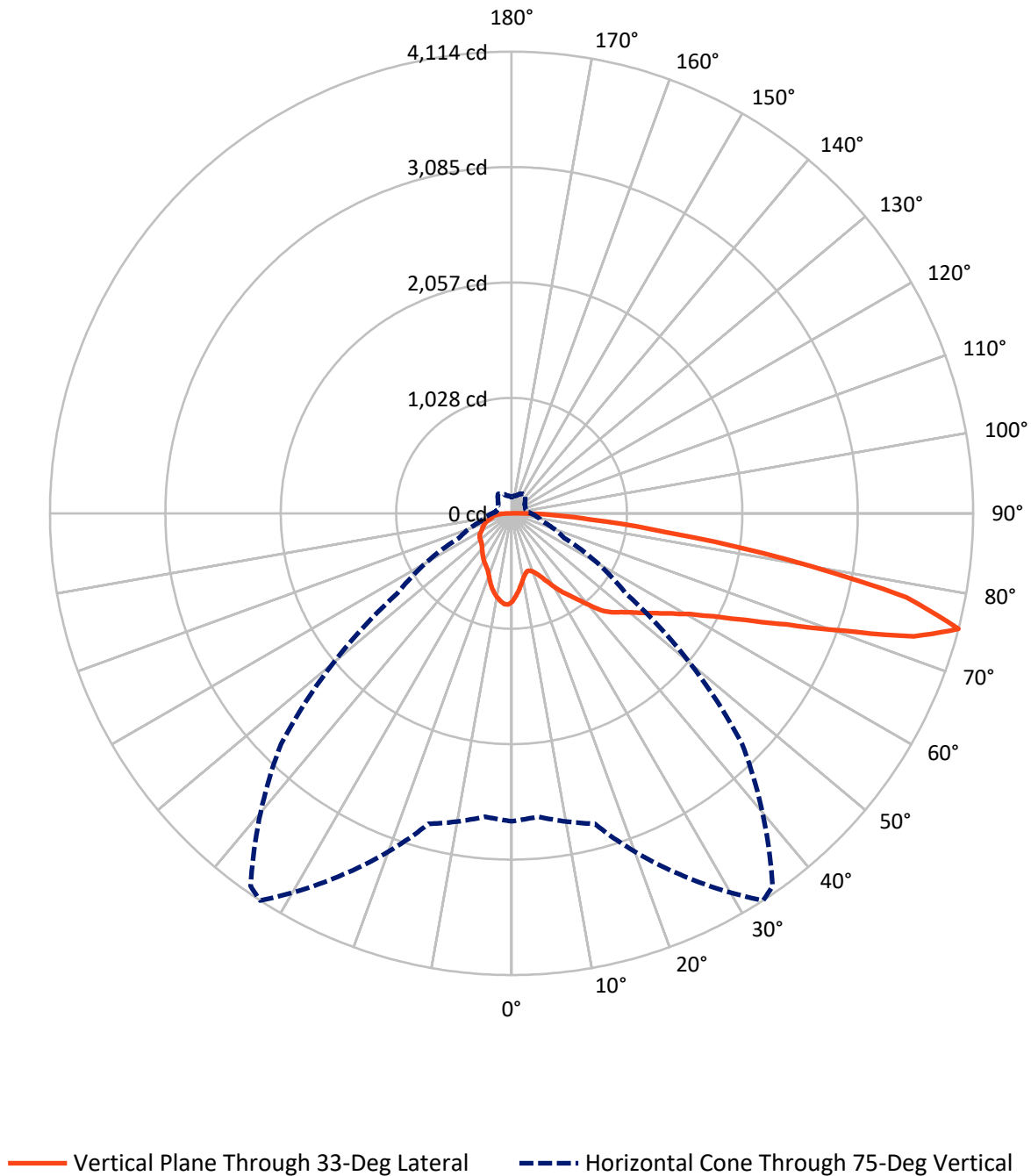
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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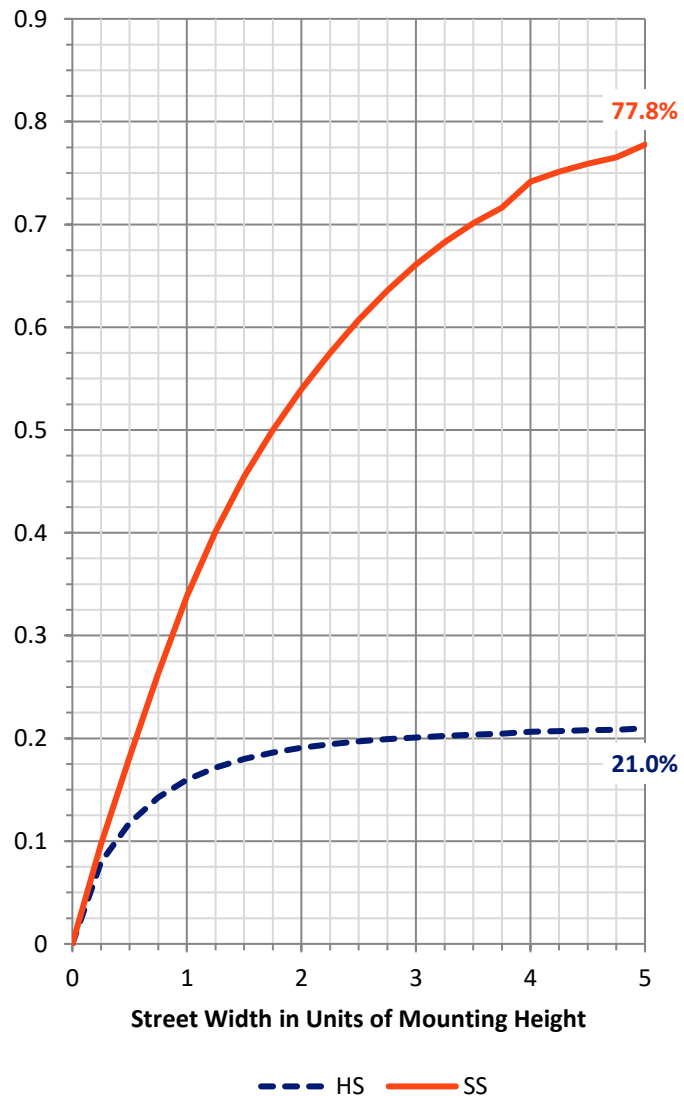
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1080.9	0.0	1080.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	3953.1	0.0	3953.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	5034.0	0.0	5034.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.2	1.4
10°-20°	192.7	3.8
20°-30°	314.8	6.3
30°-40°	468.7	9.3
40°-50°	672.3	13.4
50°-60°	923.0	18.3
60°-70°	1155.5	23.0
70°-80°	1045.4	20.8
80°-90°	190.4	3.8
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°	5034.0	100.0
0°-180°	5034.0	100.0

Coefficient of Utilization



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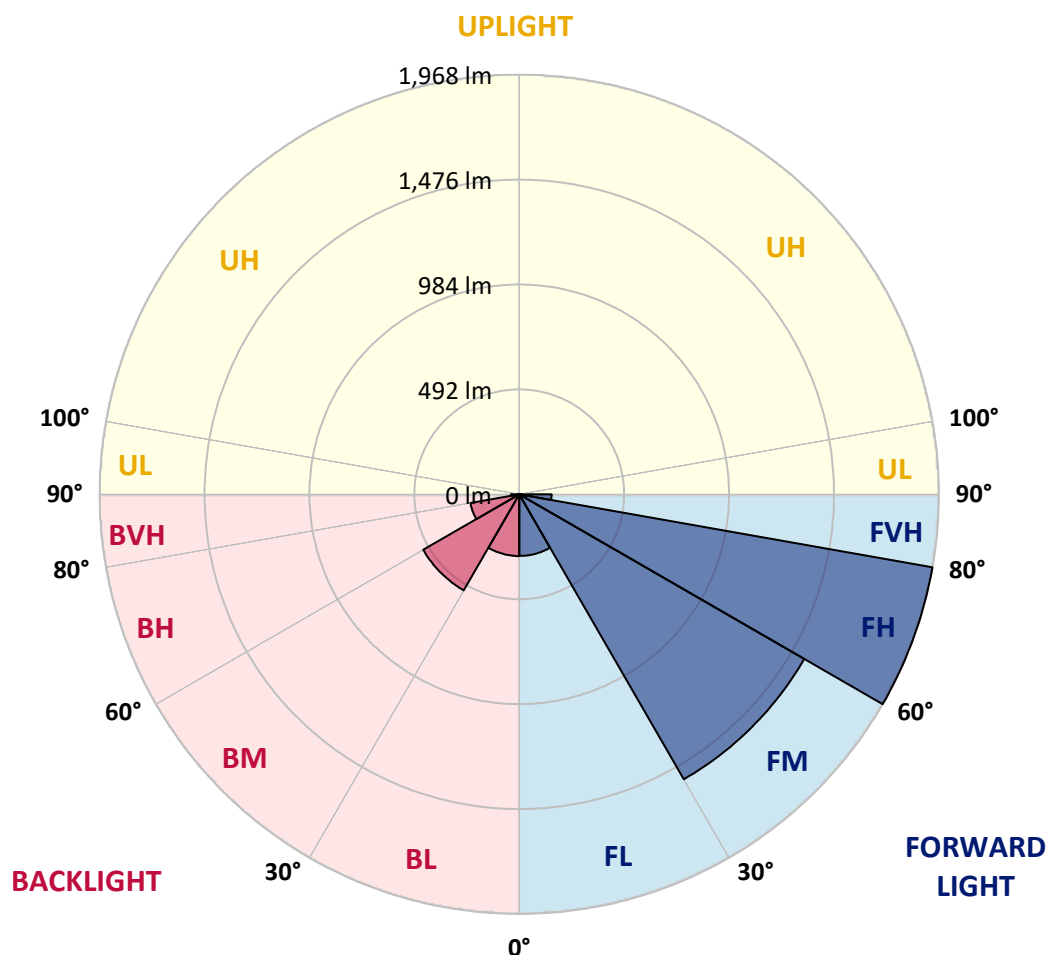
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	289.1	5.7			
FM	(30°-60°)	1543.8	30.7			
FH	(60°-80°)	1968.5	39.1			G2/5000
FVH	(80°-90°)	151.7	3.0			G2/225
BL	(0°-30°)	289.5	5.8	B1/500		
BM	(30°-60°)	520.2	10.3	B1/1000		
BH	(60°-80°)	232.4	4.6	B1/500		G1/500
BVH	(80°-90°)	38.8	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-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	786.8	786.8	786.8	786.8	786.8	786.8	786.8	786.8	786.8	786.8	786.8
2.5°	730.7	727.9	733.1	733.8	738.3	740.1	746.3	756.1	764.1	773.3	781.6
5°	664.4	662.5	669.8	675.0	684.9	689.1	703.9	724.6	743.0	763.9	782.8
7.5°	601.5	600.4	608.6	620.4	631.9	637.6	663.2	693.3	724.1	757.8	786.8
10°	548.4	548.1	555.9	567.6	584.4	590.9	623.9	663.6	706.7	753.1	793.6
12.5°	518.7	519.9	523.6	533.3	549.0	555.4	592.1	638.7	692.1	751.5	803.5
15°	526.0	527.9	521.7	521.3	532.4	537.5	571.9	621.0	681.6	754.2	818.0
17.5°	557.1	557.5	541.0	530.5	537.3	539.9	565.7	610.9	675.6	760.1	836.1
20°	601.0	600.1	570.9	553.5	557.1	557.8	574.5	611.0	675.0	770.3	859.5
22.5°	659.0	652.6	613.3	589.7	588.8	587.7	597.3	623.9	682.7	787.0	887.5
25°	734.8	728.8	674.7	642.3	635.4	632.8	634.2	651.4	697.8	804.9	918.8
27.5°	819.2	808.6	756.4	710.7	696.2	692.6	684.2	690.2	714.3	822.1	956.0
30°	889.8	884.0	838.5	784.2	767.2	762.0	740.1	733.6	738.2	845.6	1003.0
32.5°	929.3	925.4	897.8	854.0	838.1	830.8	799.9	787.0	776.4	882.7	1066.6
35°	977.1	974.6	957.9	926.1	902.7	895.0	871.0	857.6	830.3	933.6	1148.9
37.5°	1037.9	1035.3	1035.7	1009.9	981.9	974.8	959.0	944.9	900.2	1000.6	1238.3
40°	1106.8	1101.8	1099.8	1098.6	1080.9	1076.9	1068.5	1049.4	987.9	1080.5	1326.4
42.5°	1210.4	1192.5	1154.3	1168.7	1186.3	1184.2	1191.0	1163.5	1085.2	1175.1	1412.5
45°	1310.4	1281.0	1215.0	1218.1	1256.5	1268.2	1318.9	1299.5	1190.8	1278.8	1501.5
47.5°	1356.0	1333.7	1277.6	1277.7	1315.8	1340.0	1451.3	1437.4	1301.7	1396.5	1610.2
50°	1406.9	1384.7	1334.2	1353.2	1386.4	1412.1	1579.1	1571.9	1407.3	1525.3	1740.4
52.5°	1462.6	1424.8	1392.8	1426.7	1473.4	1503.3	1707.1	1687.6	1504.1	1655.1	1890.2
55°	1463.3	1453.0	1477.4	1502.2	1571.9	1608.6	1841.1	1789.7	1583.1	1782.5	2012.1
57.5°	1546.6	1529.9	1581.5	1593.0	1684.1	1725.5	1974.5	1878.5	1663.4	1880.2	2077.8
60°	1656.8	1642.5	1684.8	1715.1	1822.9	1878.2	2116.9	1969.8	1726.5	1954.0	2074.7
62.5°	1847.2	1831.0	1830.5	1872.9	2018.1	2082.5	2276.7	2059.4	1751.6	1968.6	1986.1
65°	2126.0	2100.2	2051.7	2071.9	2287.8	2352.0	2455.3	2124.2	1718.5	1890.3	1758.2
67.5°	2397.2	2396.3	2336.7	2378.1	2644.0	2695.4	2658.7	2130.6	1615.4	1617.9	1353.7
70°	2667.6	2671.1	2661.0	2805.0	3125.1	3178.7	2875.4	2044.2	1383.6	1168.4	811.0
72.5°	2881.8	2881.0	2931.7	3303.0	3749.5	3737.5	3058.0	1782.4	993.4	630.7	387.6
75°	2743.1	2712.8	2864.1	3549.6	4113.5	4054.9	2902.7	1243.3	515.6	287.1	208.7
77.5°	1789.1	1817.8	2039.9	2932.3	3598.1	3526.8	2129.6	580.1	242.9	188.3	151.3
80°	647.9	678.2	955.2	1661.0	2478.9	2467.3	1048.7	238.4	164.3	142.2	110.2
82.5°	222.9	234.1	376.8	737.6	1399.6	1451.8	394.6	135.5	119.5	100.9	75.5
85°	87.5	100.2	172.3	354.9	706.0	711.2	159.8	81.0	83.1	66.1	41.4
87.5°	33.2	40.3	82.4	164.8	322.4	296.1	57.2	38.6	47.3	39.3	19.6
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°	786.8	786.8	786.8	786.8	786.8	786.8	786.8	786.8	786.8	786.8	786.8
2.5°	788.1	791.7	799.4	804.6	810.1	811.7	812.4	813.8	815.2	814.7	814.8
5°	792.9	800.1	812.4	817.6	820.1	817.3	811.9	807.5	804.4	802.7	802.1
7.5°	800.9	811.0	824.2	823.4	817.8	805.4	791.5	781.1	772.4	769.3	767.5
10°	811.5	823.4	832.6	822.7	806.5	785.1	764.2	748.1	735.0	730.0	729.1
12.5°	825.1	837.1	838.8	817.8	791.0	761.8	733.5	712.1	692.6	686.3	684.9
15°	842.7	854.0	843.2	809.3	771.9	732.6	695.9	666.9	646.3	638.7	635.9
17.5°	861.1	871.9	844.1	795.2	746.8	698.0	651.9	622.2	598.7	589.8	588.8
20°	883.2	888.0	840.4	775.0	712.4	653.1	604.6	576.6	564.1	557.8	557.1
22.5°	910.5	905.3	832.1	747.7	668.8	601.3	561.8	548.8	545.7	544.3	544.8
25°	939.3	923.3	819.7	712.1	613.7	549.5	530.5	534.2	538.4	537.8	537.8
27.5°	971.2	941.8	800.8	664.8	552.6	507.1	509.3	522.7	529.0	528.8	528.6
30°	1012.0	962.6	776.6	607.9	495.6	477.1	490.9	507.2	515.8	515.4	515.6
32.5°	1062.3	985.6	743.7	544.4	454.4	455.1	470.9	487.1	497.0	496.1	496.3
35°	1121.1	1011.3	699.2	481.8	427.1	437.5	450.0	461.3	470.7	469.5	468.3
37.5°	1185.0	1036.5	640.1	425.9	404.8	421.2	431.6	433.5	437.8	434.7	432.5
40°	1245.9	1055.8	563.9	379.9	382.4	407.2	414.0	406.4	398.6	397.5	394.4
42.5°	1298.9	1062.3	486.9	343.3	358.7	392.6	396.8	380.8	366.7	360.1	357.3
45°	1354.9	1064.5	415.1	312.5	336.0	379.6	384.1	362.7	342.9	328.6	324.0
47.5°	1428.1	1080.9	359.3	289.7	318.6	370.9	377.3	348.3	322.6	302.2	297.9
50°	1524.0	1113.2	313.9	272.3	307.3	365.2	372.5	334.2	305.9	281.4	277.0
52.5°	1630.4	1143.0	277.2	258.2	296.3	355.1	366.2	324.1	290.2	262.0	257.4
55°	1704.8	1120.2	247.6	243.6	282.0	340.6	357.5	315.6	267.8	243.3	239.1
57.5°	1719.1	1042.3	225.2	228.5	264.8	322.6	344.1	296.7	255.6	235.1	230.7
60°	1680.1	933.8	208.5	214.6	246.4	299.8	319.1	283.3	244.0	226.4	222.8
62.5°	1582.2	822.7	196.1	202.1	229.2	276.7	303.4	269.2	232.1	216.5	212.8
65°	1384.5	690.7	184.3	190.9	213.2	256.7	289.3	256.1	220.5	208.5	205.0
67.5°	1045.1	517.3	173.2	179.1	198.9	239.3	274.0	243.3	209.2	201.5	197.4
70°	615.4	324.0	160.5	166.8	184.0	221.2	257.7	229.2	195.1	191.6	186.2
72.5°	286.4	194.9	146.1	152.2	165.2	197.0	236.7	210.8	178.4	170.8	163.5
75°	170.9	142.6	129.0	134.4	143.6	171.3	210.2	192.0	162.6	152.5	144.8
77.5°	127.8	109.0	110.2	116.0	123.5	149.9	186.2	177.2	150.4	142.6	137.4
80°	92.0	82.8	89.9	96.2	104.0	136.3	178.4	163.8	136.0	125.5	120.7
82.5°	61.4	59.5	67.6	74.1	81.7	119.3	167.6	143.5	116.2	102.9	92.2
85°	33.9	35.8	45.6	48.3	54.9	84.0	137.4	115.3	87.5	70.4	67.3
87.5°	14.1	16.5	24.5	23.6	29.2	50.1	90.4	69.6	55.6	41.6	32.3
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)