

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: P322465

Luminaire Tested: **GAN-SA1A-727-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322465
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2898 lumens
Efficiency: N/A
Efficacy: 85.2 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

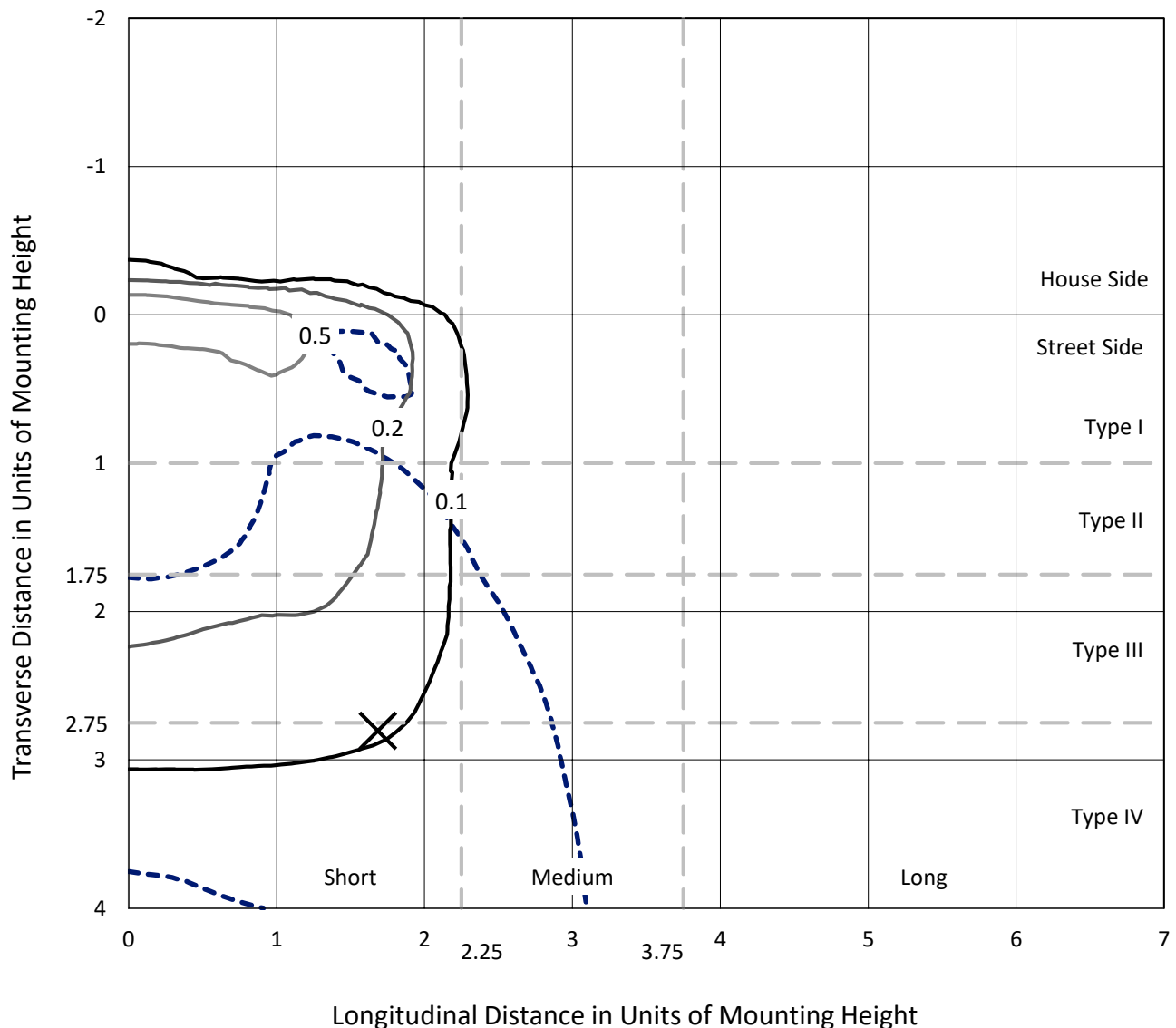
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

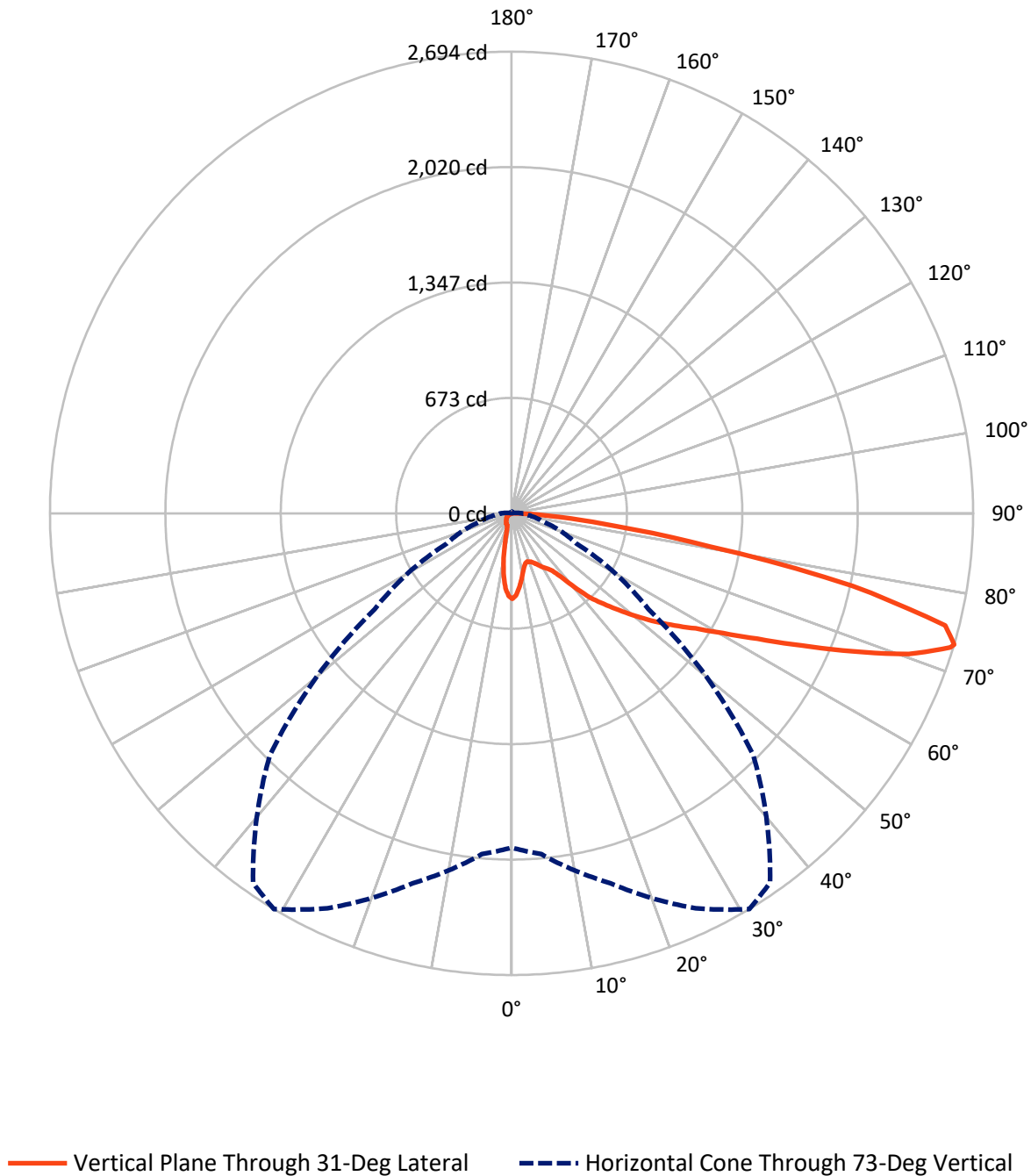
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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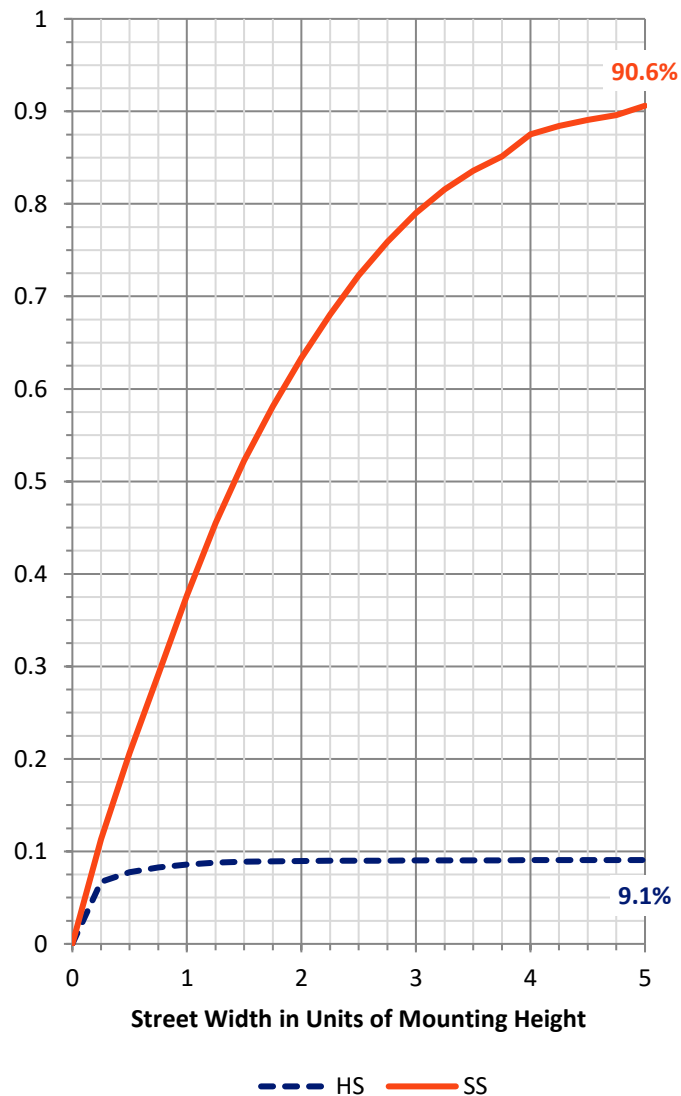
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	264.2	0.0	264.2
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	2633.8	0.0	2633.8
	% Fixture	90.9	0.0	90.9
Total	Lumens	2898.0	0.0	2898.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	1.4
10°-20°	89.8	3.1
20°-30°	134.5	4.6
30°-40°	214.0	7.4
40°-50°	382.1	13.2
50°-60°	592.9	20.5
60°-70°	788.2	27.2
70°-80°	592.9	20.5
80°-90°	62.3	2.1
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°	2898.0	100.0
0°-180°	2898.0	100.0

Coefficient of Utilization



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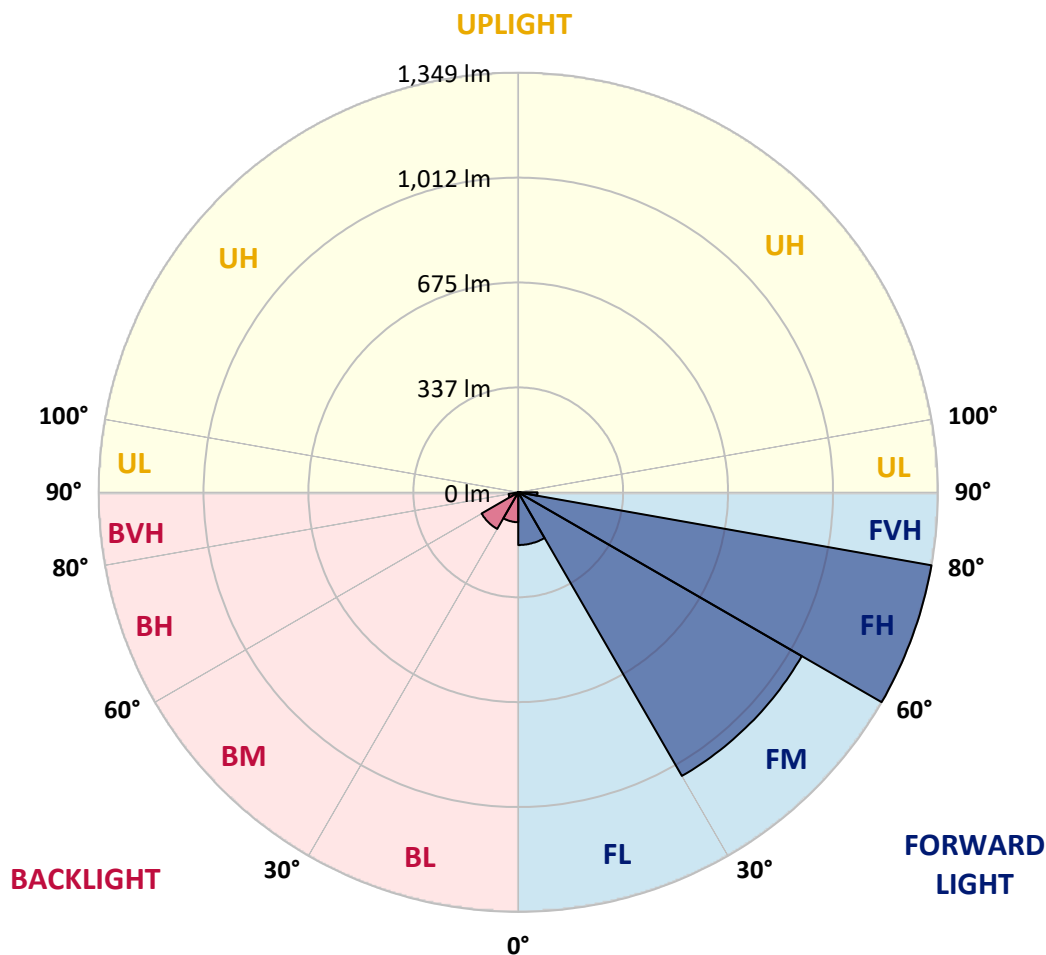
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	169.5	5.9			
FM	(30°-60°)	1053.0	36.3			
FH	(60°-80°)	1349.5	46.6			G1/1800
FVH	(80°-90°)	61.8	2.1			G1/100
BL	(0°-30°)	96.1	3.3	B0/110		
BM	(30°-60°)	136.0	4.7	B0/220		
BH	(60°-80°)	31.6	1.1	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	31°	35°	45°	55°	65°	75°	85°
0°	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6
2.5°	472.5	474.5	476.6	477.1	480.6	480.7	485.8	489.7	493.5	497.2	498.5
5°	424.0	427.3	431.1	434.9	442.4	445.4	457.9	470.7	482.9	494.5	500.2
7.5°	372.3	375.9	381.3	390.8	399.2	405.0	424.7	447.4	470.1	491.5	503.9
10°	325.0	328.4	334.1	344.2	357.1	365.0	391.5	423.0	456.3	488.8	509.4
12.5°	295.0	296.8	299.9	310.7	322.3	331.3	362.5	401.5	445.0	488.7	518.3
15°	289.4	290.0	287.5	292.3	301.3	310.0	341.6	384.0	436.4	490.9	529.9
17.5°	298.2	297.9	289.4	288.9	296.1	303.2	331.4	372.0	430.3	496.2	545.0
20°	311.6	310.6	295.8	293.1	300.8	307.4	330.7	367.4	428.0	505.0	563.3
22.5°	329.3	327.6	304.5	301.6	309.9	316.8	339.5	371.8	430.0	516.8	584.5
25°	351.3	348.7	319.4	316.2	324.6	331.6	355.2	384.4	435.9	531.1	611.5
27.5°	376.1	372.4	343.2	335.1	344.6	351.8	376.2	403.7	445.3	546.3	644.5
30°	399.5	394.7	368.3	355.0	366.6	374.7	398.9	426.7	460.3	569.7	689.8
32.5°	423.0	417.6	390.7	374.8	385.3	394.1	422.3	458.3	488.5	605.4	749.9
35°	477.2	471.5	438.5	412.2	412.1	417.1	455.1	501.6	525.8	655.2	821.7
37.5°	568.4	565.1	533.6	483.9	470.5	465.0	499.7	553.2	579.4	723.7	902.6
40°	668.2	665.4	630.1	585.0	564.7	551.1	563.8	625.1	655.2	807.3	985.3
42.5°	781.0	767.5	704.5	691.0	672.9	662.5	651.1	713.7	748.2	898.4	1067.3
45°	883.3	860.6	779.0	758.5	754.4	757.0	763.4	832.9	852.9	1006.6	1149.0
47.5°	944.3	926.5	863.8	844.2	843.1	859.9	908.2	967.4	957.1	1100.9	1220.8
50°	1002.3	986.2	934.1	938.9	944.2	967.1	1072.5	1105.8	1052.2	1186.4	1286.8
52.5°	1049.3	1024.6	997.4	1024.4	1050.3	1087.3	1242.1	1230.1	1119.7	1254.5	1343.2
55°	1076.3	1065.1	1078.3	1105.6	1154.1	1214.2	1402.2	1333.4	1169.1	1316.6	1380.8
57.5°	1175.6	1153.6	1179.9	1203.4	1266.7	1350.7	1539.4	1410.5	1204.7	1355.0	1389.5
60°	1295.7	1278.0	1293.5	1332.6	1418.0	1516.8	1667.6	1473.3	1223.3	1379.7	1367.1
62.5°	1486.9	1463.5	1453.8	1497.7	1610.8	1718.7	1764.8	1516.8	1219.1	1368.8	1290.2
65°	1743.0	1718.7	1675.6	1715.3	1859.3	1935.4	1873.6	1526.0	1190.8	1280.4	1095.9
67.5°	2005.3	1987.8	1950.9	2017.8	2147.7	2172.3	1988.6	1503.6	1099.5	1038.2	774.3
70°	2178.6	2171.1	2195.1	2343.1	2459.0	2451.9	2094.1	1383.2	857.0	638.4	383.0
72.5°	2053.7	2089.7	2266.7	2535.2	2676.7	2618.8	2039.9	1062.2	489.8	245.6	110.8
73°	1950.2	1996.3	2234.5	2542.4	2693.8	2630.4	1994.4	974.9	417.5	193.9	84.0
75°	1356.7	1413.3	1849.9	2367.8	2613.6	2506.2	1662.4	596.7	193.4	85.9	33.9
77.5°	658.7	700.5	1018.6	1710.8	2032.6	1958.1	1034.9	222.4	87.4	53.7	15.6
80°	245.9	273.4	442.2	870.7	1174.6	1205.4	455.2	84.1	58.1	43.3	7.9
82.5°	64.4	71.8	163.1	388.3	602.0	630.1	143.5	42.4	42.5	35.6	4.8
85°	20.6	23.5	50.9	174.3	283.6	249.0	37.4	20.6	30.9	26.5	2.7
87.5°	2.6	3.3	16.2	41.0	62.5	34.7	5.8	6.1	13.2	14.7	1.6
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°	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6
2.5°	499.7	499.0	499.2	495.5	493.1	488.3	483.3	481.0	478.6	477.6	478.6
5°	502.3	501.0	497.3	486.0	473.9	458.3	443.7	432.7	418.8	414.9	418.9
7.5°	506.3	503.7	492.9	469.8	443.0	413.2	379.8	355.4	335.4	322.5	327.2
10°	512.1	507.3	485.6	446.3	398.3	345.6	298.1	261.1	234.8	224.1	223.6
12.5°	521.9	512.8	476.5	415.6	343.7	273.4	211.2	171.0	149.8	136.0	135.7
15°	532.6	519.3	465.0	378.9	280.2	195.8	136.0	105.5	91.8	87.4	86.8
17.5°	545.8	526.8	450.1	333.7	213.7	129.8	88.8	80.0	79.4	79.0	79.0
20°	562.4	535.8	431.0	281.9	151.6	86.6	75.4	76.0	76.3	75.7	75.9
22.5°	581.7	544.8	408.1	226.3	102.5	72.5	72.2	72.9	73.2	72.9	73.0
25°	604.1	555.3	380.3	168.0	74.0	68.8	69.5	70.5	71.2	71.2	71.2
27.5°	631.9	568.1	346.9	117.3	64.0	64.9	66.9	68.8	69.8	70.1	70.1
30°	668.1	584.0	306.7	80.4	58.1	59.8	63.5	67.1	68.9	69.2	69.3
32.5°	713.7	601.8	260.2	59.4	53.2	54.5	58.4	64.4	67.9	68.5	68.5
35°	766.1	622.5	210.2	51.8	49.6	50.1	53.2	60.0	66.2	67.8	67.9
37.5°	823.4	643.0	159.8	48.4	46.7	46.7	48.9	54.7	62.1	66.9	67.5
40°	876.8	655.3	112.0	45.7	44.0	44.0	45.9	50.2	57.1	64.4	65.9
42.5°	926.2	659.6	78.0	43.1	41.4	41.8	43.5	46.9	52.2	59.4	60.8
45°	976.9	658.9	56.9	40.1	38.9	40.1	41.4	44.0	47.8	51.9	52.2
47.5°	1015.2	652.9	45.1	37.3	36.4	38.1	39.3	41.0	43.1	42.8	42.8
50°	1051.1	638.4	36.3	33.5	34.0	36.0	36.6	37.2	37.3	34.6	34.3
52.5°	1078.3	615.9	29.1	29.4	31.6	33.6	33.0	32.2	30.8	27.5	26.9
55°	1087.4	572.5	22.8	24.2	28.1	30.6	28.5	26.7	24.0	21.3	20.7
57.5°	1071.0	516.5	18.6	18.9	23.7	25.8	23.4	21.3	18.3	16.0	15.6
60°	1036.1	454.2	15.3	14.2	18.3	20.1	18.6	16.5	13.8	12.1	11.9
62.5°	966.9	387.9	12.6	11.1	13.9	15.5	14.5	12.9	10.6	9.5	9.4
65°	821.4	310.3	10.2	8.9	10.8	12.1	11.2	10.1	8.4	7.5	7.4
67.5°	573.3	209.7	8.4	7.4	8.5	9.5	8.8	8.2	6.7	6.5	6.7
70°	276.5	101.1	6.9	6.0	6.7	7.4	7.1	6.7	6.4	7.4	8.5
72.5°	79.3	33.9	5.5	5.0	5.4	5.8	6.1	6.0	6.9	8.9	10.4
73°	61.0	27.4	5.2	4.7	5.1	5.7	6.0	5.8	7.1	9.1	10.4
75°	26.1	13.2	4.0	3.8	4.3	5.0	5.2	5.2	7.1	9.2	9.9
77.5°	11.8	7.1	2.6	3.0	3.7	4.0	4.4	4.4	5.7	7.1	7.1
80°	6.7	3.8	2.0	2.3	2.7	2.7	2.7	2.4	2.6	2.8	3.1
82.5°	4.3	2.6	1.6	1.8	1.7	1.4	1.1	1.1	1.0	1.1	1.4
85°	2.4	1.4	1.4	1.1	0.7	0.6	0.7	0.6	0.1	0.0	0.1
87.5°	1.4	0.9	0.4	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)