

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: P317865

Luminaire Tested: **GAN-SA1A-827-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-827-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3667 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G1

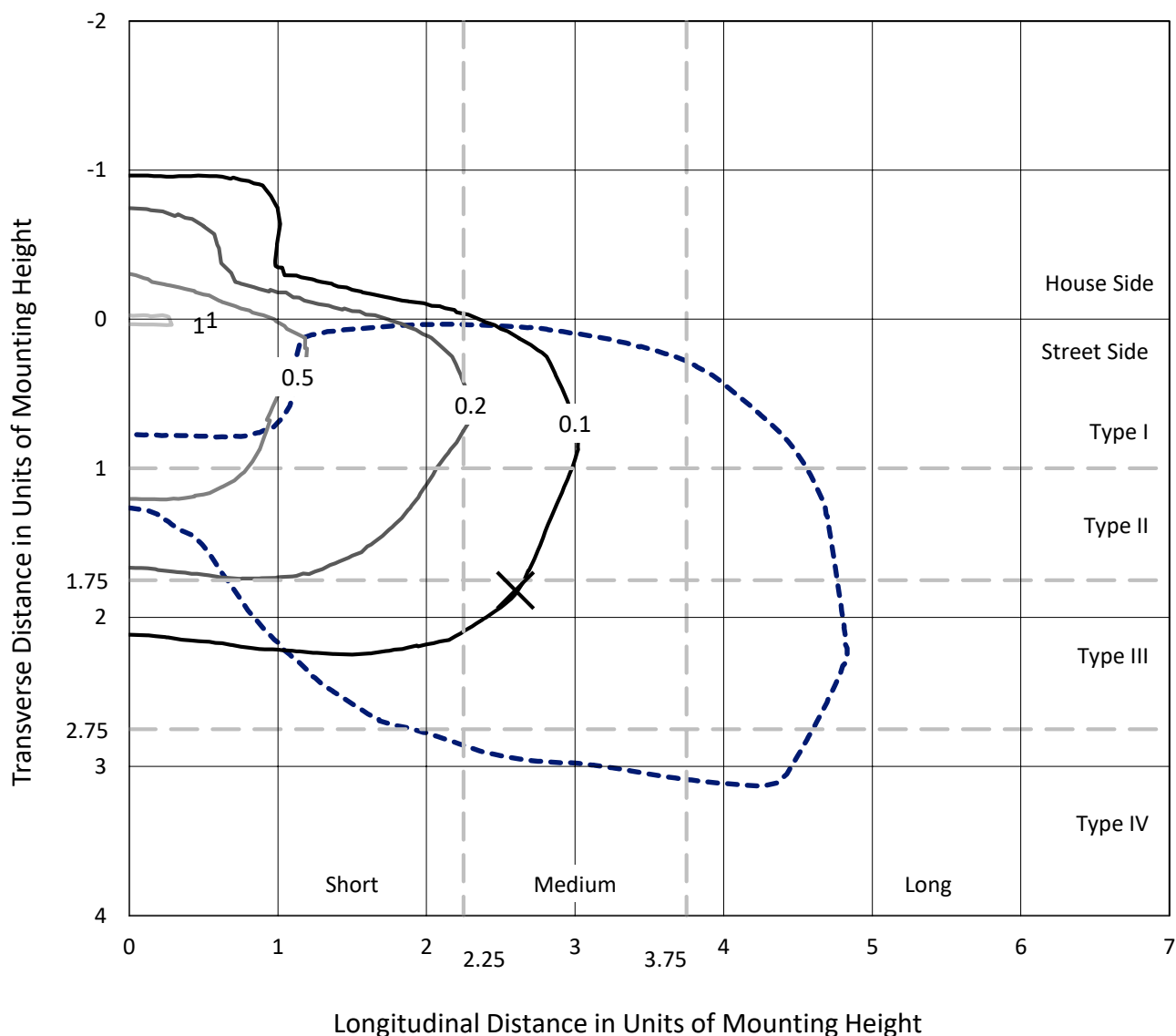
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

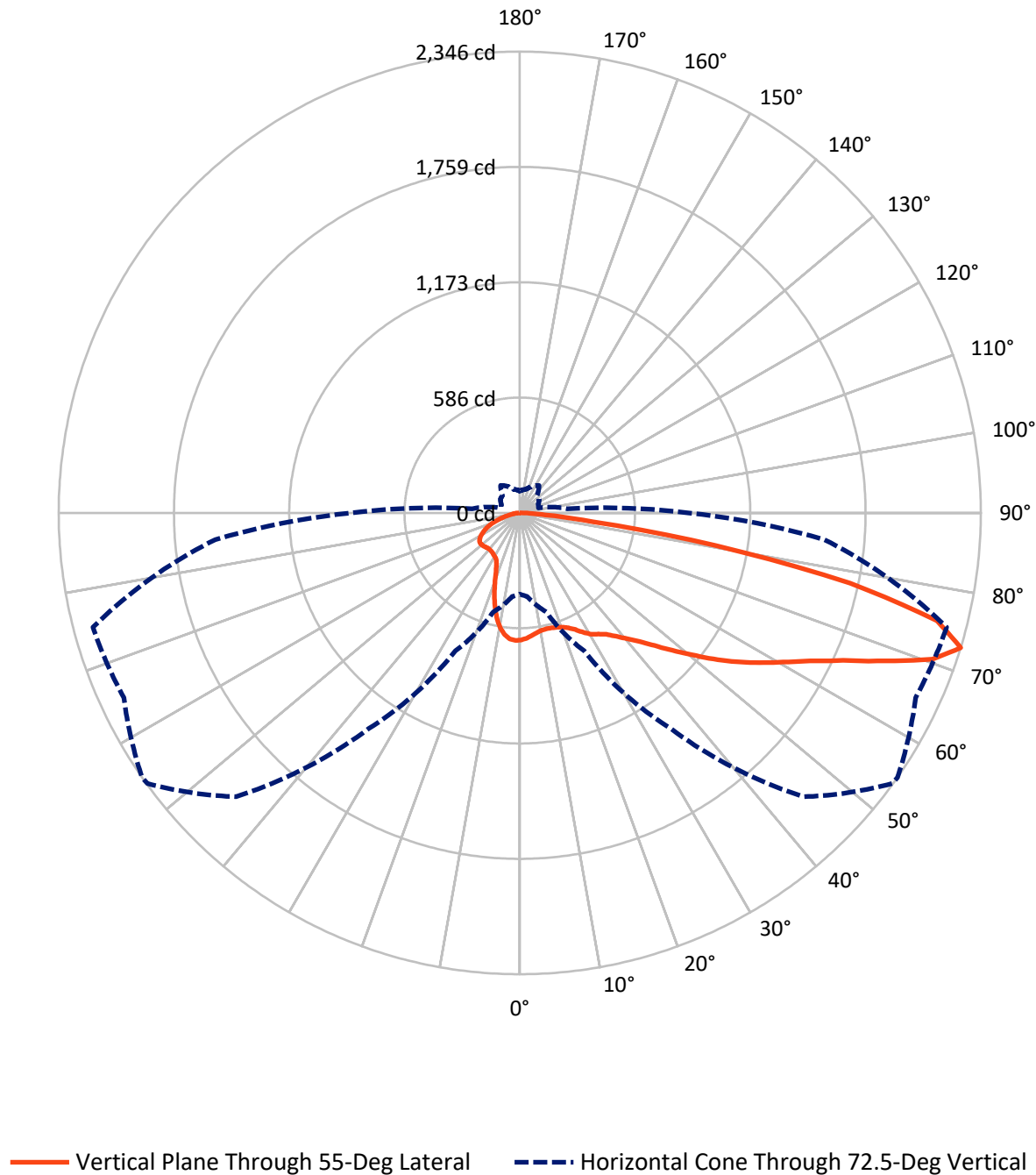
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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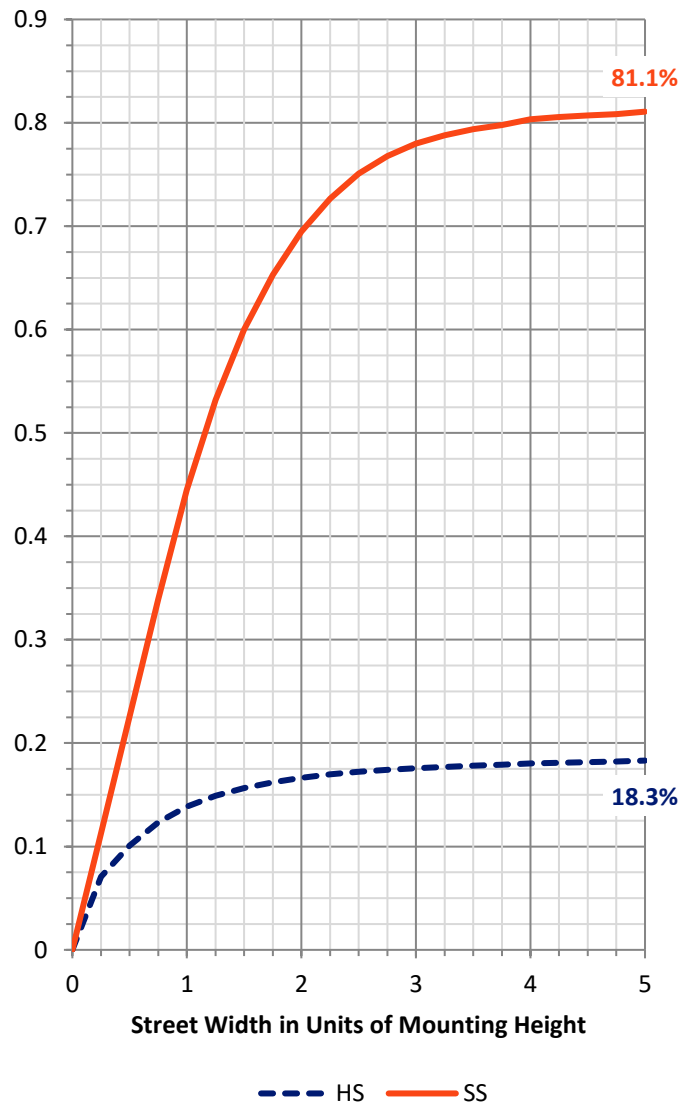
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	681.6	0.0	681.6
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	2985.4	0.0	2985.4
	% Fixture	81.4	0.0	81.4
Total	Lumens	3667.0	0.0	3667.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.5	1.6
10°-20°	155.8	4.2
20°-30°	256.9	7.0
30°-40°	380.0	10.4
40°-50°	530.4	14.5
50°-60°	690.6	18.8
60°-70°	848.8	23.1
70°-80°	665.3	18.1
80°-90°	80.5	2.2
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°	3667.0	100.0
0°-180°	3667.0	100.0

Coefficient of Utilization



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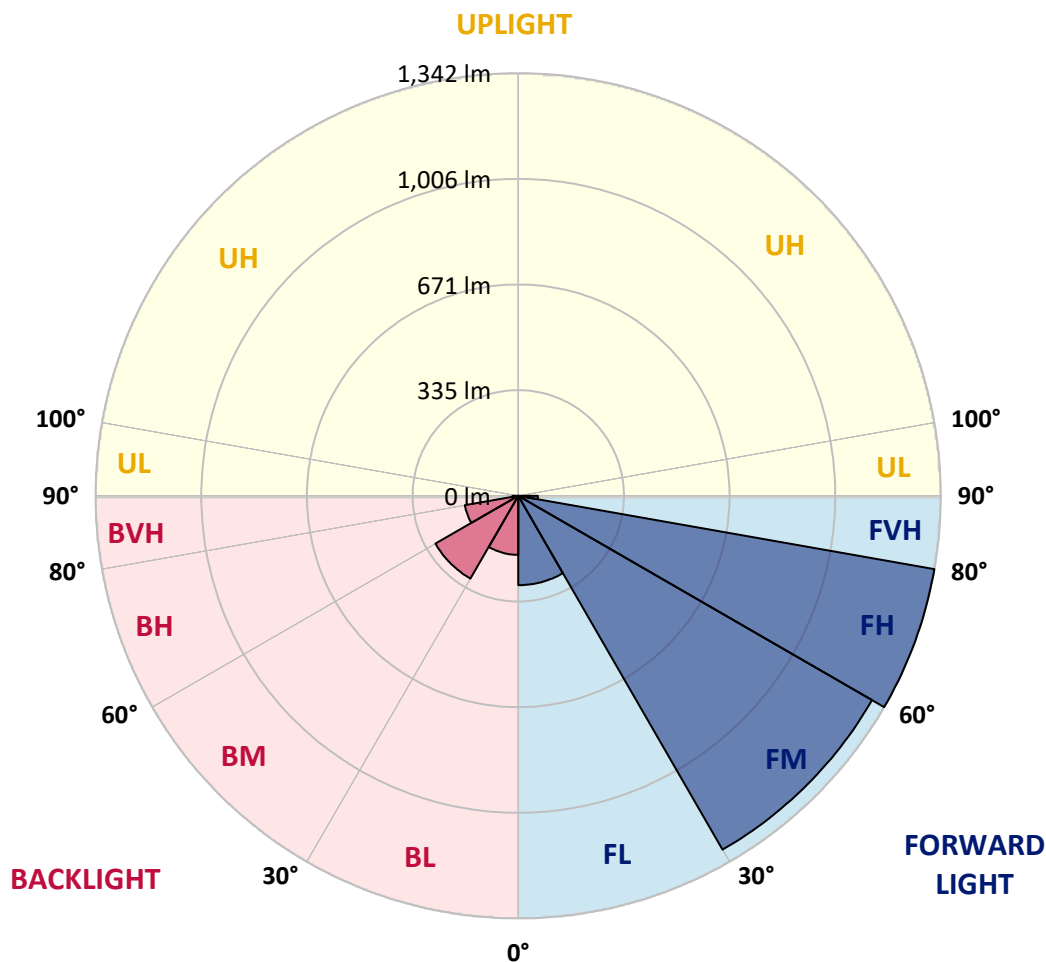
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	283.7	7.7			
FM	(30°-60°)	1297.5	35.4			
FH	(60°-80°)	1342.0	36.6			G1/1800
FVH	(80°-90°)	62.3	1.7			G1/100
BL	(0°-30°)	187.5	5.1	B1/500		
BM	(30°-60°)	303.7	8.3	B1/1000		
BH	(60°-80°)	172.1	4.7	B1/500		G1/500
BVH	(80°-90°)	18.3	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8
2.5°	625.7	624.2	626.1	628.7	631.5	635.4	637.6	638.6	642.4	643.9	647.2
5°	596.7	596.0	599.1	603.6	609.9	618.8	626.0	627.3	637.5	644.7	651.2
7.5°	575.7	575.7	579.3	584.6	591.7	603.7	613.8	615.7	632.9	648.4	660.5
10°	559.0	559.6	563.8	570.1	578.4	591.2	604.7	606.8	631.7	657.1	676.4
12.5°	547.8	549.3	553.1	558.8	569.1	584.6	601.7	604.5	634.3	669.4	695.5
15°	554.9	557.4	557.7	560.1	565.8	582.6	603.4	606.4	639.8	682.1	717.1
17.5°	585.8	586.7	582.9	577.9	575.2	586.0	608.6	611.7	646.5	694.6	737.9
20°	632.9	632.4	624.1	610.7	596.9	598.6	617.2	620.4	655.6	705.6	758.7
22.5°	692.4	690.6	677.9	653.2	629.6	619.7	632.2	634.9	669.2	721.3	781.0
25°	764.4	760.6	743.8	710.7	675.9	650.4	654.7	657.3	689.0	738.9	801.5
27.5°	840.5	836.7	815.2	775.2	728.9	689.1	685.8	688.0	711.6	751.9	816.6
30°	920.0	915.9	896.4	851.5	785.1	729.3	714.8	715.6	727.4	759.0	829.0
32.5°	999.9	996.1	974.1	922.1	846.2	772.4	735.7	734.6	736.9	766.3	843.0
35°	1080.9	1082.4	1056.7	999.2	913.8	820.3	760.5	758.1	752.9	781.3	862.8
37.5°	1167.6	1166.6	1133.4	1073.2	984.5	872.3	796.0	795.7	777.7	809.7	893.9
40°	1225.6	1226.2	1206.0	1149.0	1056.0	929.9	841.6	840.7	817.2	852.1	934.6
42.5°	1248.2	1252.3	1257.5	1221.4	1130.8	996.7	896.0	894.7	872.3	913.1	982.6
45°	1249.8	1258.0	1290.2	1285.6	1206.6	1073.1	965.5	962.0	945.9	994.1	1039.8
47.5°	1236.0	1244.4	1297.9	1323.9	1274.4	1153.7	1046.7	1044.0	1030.1	1095.4	1101.7
50°	1205.6	1213.7	1282.0	1342.6	1330.1	1231.3	1140.3	1133.2	1125.7	1212.4	1172.6
52.5°	1148.8	1164.3	1260.9	1347.1	1363.4	1300.1	1238.8	1234.1	1238.2	1335.9	1243.5
55°	1014.1	1031.5	1206.2	1343.4	1388.1	1358.0	1337.3	1337.0	1358.2	1465.5	1319.7
57.5°	938.7	951.0	1095.0	1337.0	1417.3	1415.4	1434.8	1437.1	1478.4	1606.5	1399.5
60°	896.1	909.0	1038.7	1313.6	1462.6	1489.7	1534.2	1538.9	1600.5	1762.7	1495.4
62.5°	857.3	871.5	1003.7	1265.9	1516.0	1596.0	1653.4	1657.6	1729.8	1923.2	1588.2
65°	791.1	807.1	952.6	1234.6	1564.6	1734.6	1804.8	1807.7	1878.3	2091.4	1659.2
67.5°	697.4	712.1	856.1	1165.4	1600.5	1902.9	2006.2	2007.8	2025.6	2210.2	1695.5
70°	588.1	593.6	718.6	1022.4	1558.0	2060.4	2226.9	2227.3	2159.8	2286.3	1689.5
72.5°	413.2	426.3	521.7	774.0	1338.9	2041.2	2341.5	2345.7	2222.2	2247.9	1554.5
75°	253.4	267.3	327.2	469.0	849.4	1605.3	2163.4	2192.6	2105.2	2004.2	1269.9
77.5°	169.4	174.6	213.5	273.5	384.8	923.6	1663.3	1718.3	1748.9	1461.6	812.1
80°	94.5	104.4	141.6	169.9	171.2	367.0	997.3	1010.2	973.0	582.0	250.6
82.5°	50.0	55.5	94.5	99.8	93.4	122.9	371.7	372.1	310.9	156.1	74.4
85°	38.8	43.3	64.8	60.9	47.7	54.5	122.6	129.3	105.8	63.9	24.3
87.5°	19.3	24.0	44.0	38.6	18.7	15.6	43.8	46.8	41.7	25.0	8.8
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°	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8
2.5°	648.4	649.5	650.9	649.4	648.9	646.9	643.6	642.8	641.1	641.2	642.2
5°	654.1	655.9	655.2	649.5	642.7	633.2	623.2	614.8	609.3	608.9	608.5
7.5°	665.0	666.2	660.4	644.2	625.1	603.1	582.3	564.0	553.0	550.3	549.7
10°	682.1	681.8	665.9	633.2	595.1	555.7	522.3	497.0	482.3	478.0	476.8
12.5°	701.2	698.3	667.7	613.1	552.8	498.2	455.8	427.7	412.3	407.4	406.1
15°	720.8	713.8	663.1	583.1	500.8	436.1	391.6	365.6	357.3	354.6	354.1
17.5°	739.2	725.6	650.0	542.5	441.4	374.3	339.6	329.2	331.2	334.8	334.9
20°	757.1	733.5	628.9	491.2	378.9	323.4	311.6	319.3	328.7	336.0	337.0
22.5°	774.8	739.1	601.8	432.0	322.9	294.8	303.1	317.1	327.8	335.8	337.1
25°	789.7	740.4	564.4	368.8	284.0	284.0	299.0	312.2	322.9	330.7	332.1
27.5°	795.2	731.3	511.7	310.4	264.4	279.0	293.3	304.3	313.4	321.7	323.1
30°	797.3	714.3	450.7	263.4	256.4	273.7	285.6	295.0	303.6	311.4	312.7
32.5°	797.6	693.8	386.1	236.8	250.8	268.1	276.1	284.4	293.5	296.6	297.1
35°	800.0	669.7	317.9	223.2	245.6	262.9	269.3	275.2	260.3	261.5	262.5
37.5°	806.8	645.8	261.0	215.5	242.3	260.2	267.8	246.2	234.6	231.9	231.5
40°	819.6	620.3	218.7	209.3	241.0	261.6	258.2	229.9	209.8	194.8	192.6
42.5°	837.3	592.8	191.7	205.2	241.9	268.1	245.0	214.1	180.8	171.2	169.9
45°	857.2	563.9	177.1	202.4	244.9	273.2	242.3	193.2	167.3	160.0	159.4
47.5°	876.5	528.6	169.6	201.1	249.0	269.1	230.7	186.8	160.9	157.1	157.4
50°	898.7	496.8	165.0	199.8	252.5	266.5	217.7	183.4	158.4	163.1	168.1
52.5°	917.4	463.8	160.9	197.1	253.9	262.0	214.4	184.1	158.4	167.5	172.2
55°	939.6	438.9	156.2	191.4	251.3	249.0	212.0	187.8	160.3	154.6	155.1
57.5°	968.2	430.8	151.0	182.4	242.6	230.0	210.9	191.4	159.2	155.6	156.8
60°	1007.8	439.4	148.9	170.8	229.1	215.1	211.1	189.5	151.4	145.2	145.3
62.5°	1045.6	449.1	148.8	163.5	212.5	201.9	208.2	183.4	147.4	143.8	145.2
65°	1058.0	439.3	142.8	155.3	193.8	186.0	203.0	177.0	144.4	139.0	138.7
67.5°	1041.4	409.0	130.8	142.1	172.4	167.6	196.2	169.3	139.7	135.3	134.5
70°	992.1	341.2	115.9	124.6	148.0	146.8	185.4	160.4	133.4	129.6	126.3
72.5°	859.4	243.1	97.7	103.7	120.5	124.5	170.6	148.8	124.5	116.2	111.2
75°	705.9	180.0	80.3	81.5	91.5	102.3	150.1	135.1	113.9	99.8	96.0
77.5°	432.3	110.1	63.9	64.4	65.6	81.6	123.6	119.9	100.6	83.2	80.5
80°	140.0	60.1	46.2	48.6	44.8	59.8	95.6	102.1	86.3	69.6	66.6
82.5°	53.3	35.1	31.2	32.8	31.1	40.1	69.7	81.7	70.7	57.2	46.6
85°	25.8	19.8	18.5	20.7	19.2	20.6	44.6	60.2	53.6	37.3	34.7
87.5°	9.2	8.8	7.1	9.5	8.2	7.3	13.6	30.3	35.4	25.6	22.9
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)