

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: P319475

Luminaire Tested: **GAN-SA1B-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319475
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1B-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4309 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

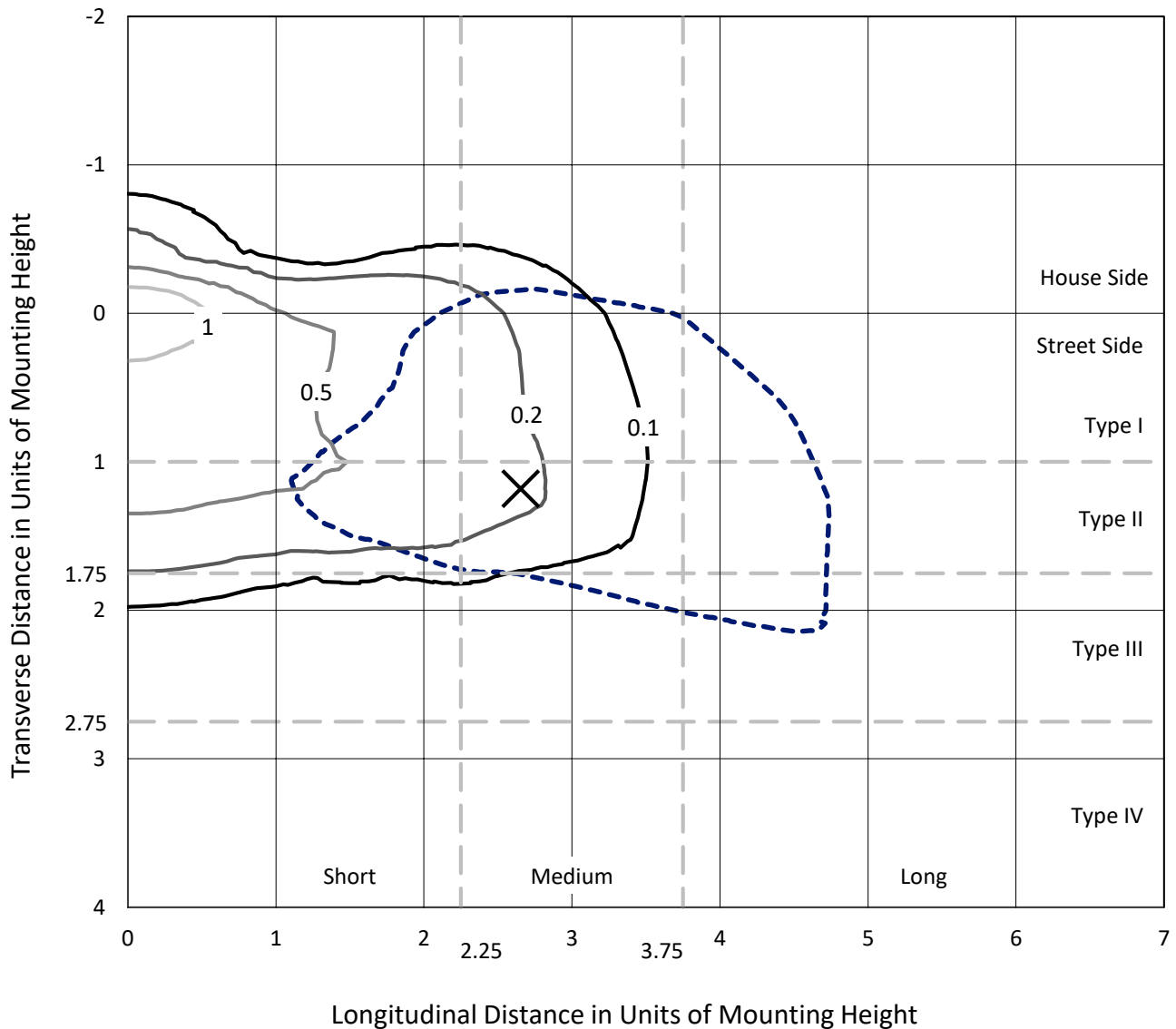
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

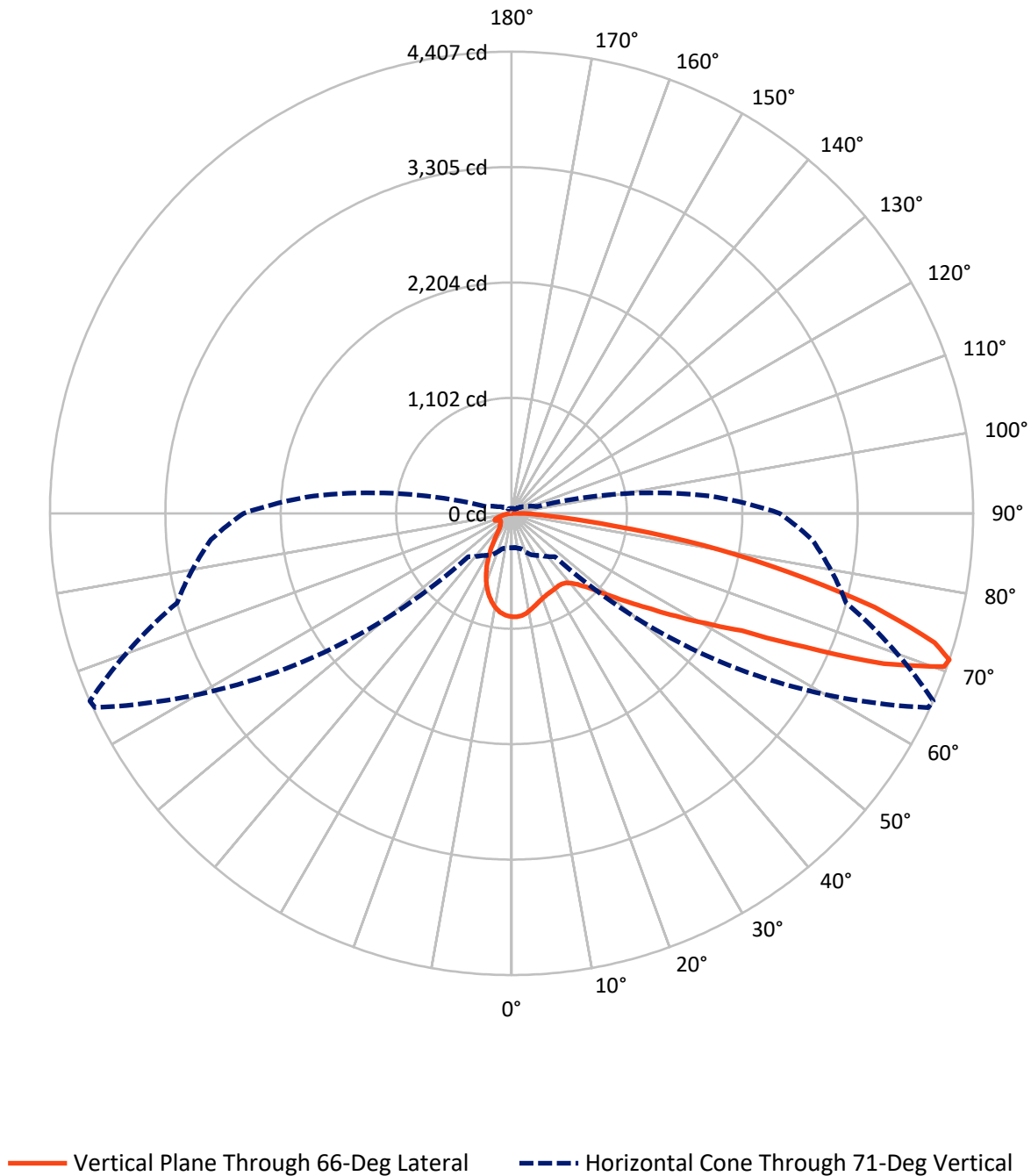
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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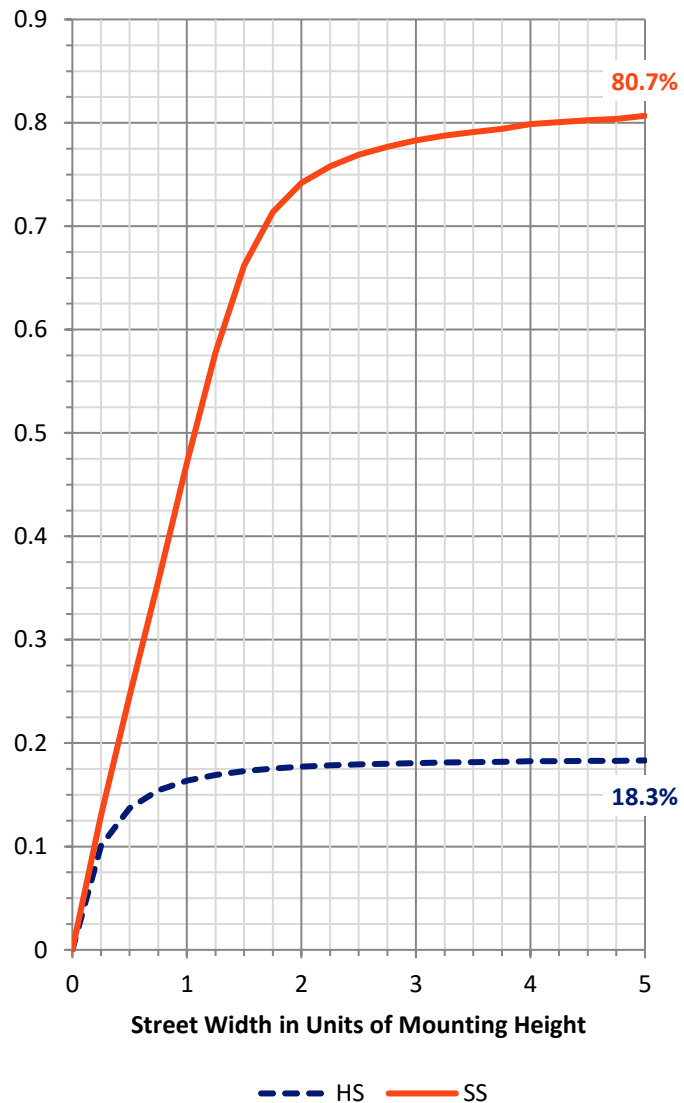
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	798.6	0.0	798.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	3510.4	0.0	3510.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	4309.0	0.0	4309.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.9	2.0
10°-20°	208.4	4.8
20°-30°	279.9	6.5
30°-40°	368.2	8.5
40°-50°	535.7	12.4
50°-60°	836.8	19.4
60°-70°	1048.2	24.3
70°-80°	799.6	18.6
80°-90°	145.2	3.4
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°	4309.0	100.0
0°-180°	4309.0	100.0

Coefficient of Utilization



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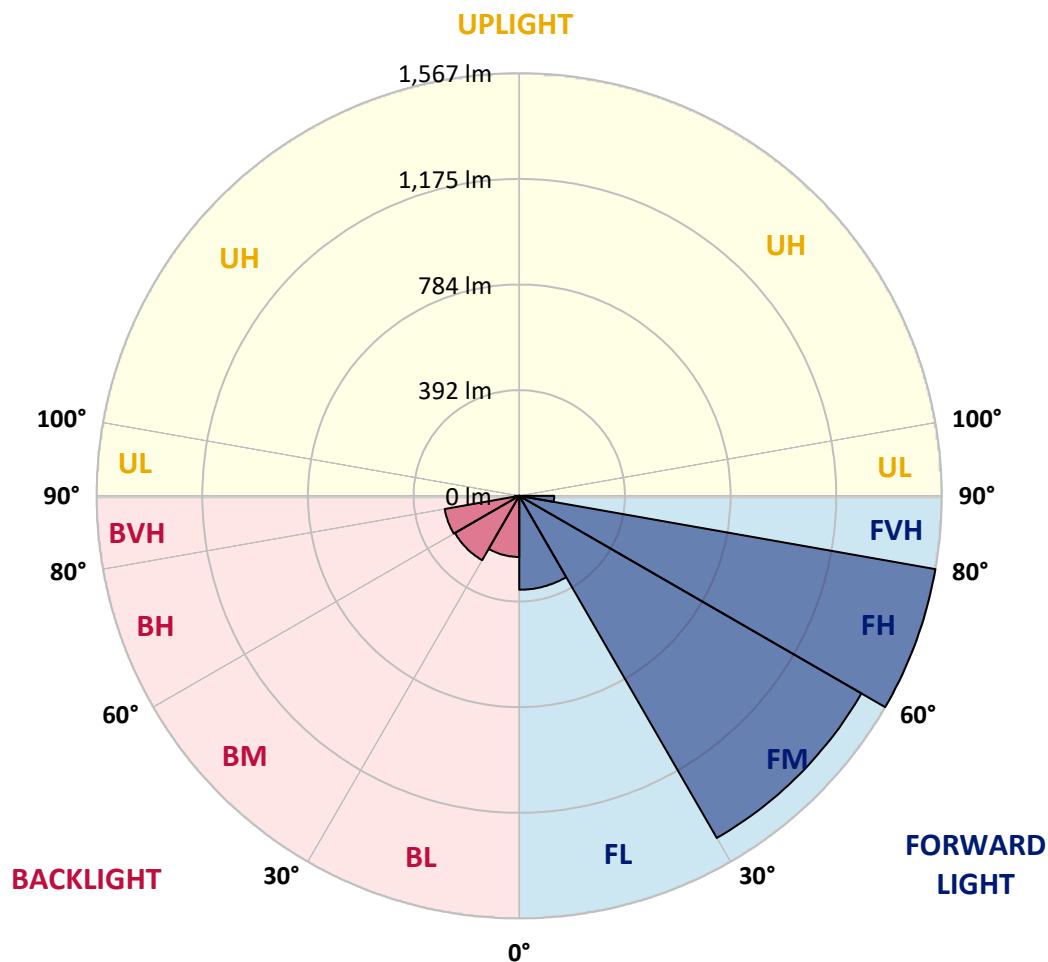
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	348.4	8.1			
FM	(30°-60°)	1465.3	34.0			
FH	(60°-80°)	1567.2	36.4			G1/1800
FVH	(80°-90°)	129.5	3.0			G2/225
BL	(0°-30°)	226.8	5.3	B1/500		
BM	(30°-60°)	275.5	6.4	B1/1000		
BH	(60°-80°)	280.6	6.5	B1/500		G1/500
BVH	(80°-90°)	15.7	0.4			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1
2.5°	968.8	967.3	971.8	976.4	978.2	981.2	985.6	988.1	988.0	988.4	987.0
5°	904.5	902.6	911.5	918.8	932.8	948.6	967.8	981.5	981.8	989.5	991.6
7.5°	843.7	842.4	852.6	864.4	880.6	904.7	935.8	965.2	967.0	988.0	995.3
10°	794.9	794.6	804.6	817.4	836.3	863.2	898.9	942.0	944.7	980.9	995.9
12.5°	756.8	757.4	766.0	780.6	800.5	828.7	867.3	916.0	920.3	969.6	992.5
15°	728.7	731.1	738.1	752.8	772.4	801.0	840.7	891.9	898.4	956.9	990.5
17.5°	712.6	715.3	720.2	732.4	750.9	778.4	816.0	872.1	878.1	947.2	990.7
20°	707.9	710.1	712.9	720.4	736.0	761.0	796.5	854.3	860.7	939.5	992.2
22.5°	717.2	718.9	719.2	718.6	728.1	748.5	782.4	841.2	848.0	934.4	993.2
25°	737.3	739.6	737.9	732.4	729.3	741.8	775.1	832.5	839.4	930.7	991.1
27.5°	767.5	767.8	766.5	759.3	744.6	742.5	772.9	827.5	834.0	926.4	986.8
30°	808.6	810.5	808.1	798.5	774.4	754.4	775.6	822.6	828.5	920.9	979.8
32.5°	856.6	861.4	861.2	851.1	816.6	781.1	786.6	819.6	824.2	915.1	971.3
35°	906.5	913.0	925.2	920.9	878.2	823.2	807.7	824.4	827.5	914.4	965.4
37.5°	958.2	964.8	989.9	1001.5	951.6	883.4	841.0	841.2	842.6	923.4	964.9
40°	1012.4	1019.4	1057.2	1087.4	1046.6	959.7	894.7	876.3	874.6	945.7	973.7
42.5°	1088.3	1094.5	1139.9	1178.4	1152.1	1057.5	969.0	930.4	927.0	989.5	1001.8
45°	1184.2	1189.6	1237.8	1279.0	1265.5	1169.1	1062.2	1005.0	1004.4	1062.4	1058.8
47.5°	1298.3	1302.5	1345.8	1385.7	1390.6	1297.4	1179.5	1120.0	1110.3	1162.4	1147.0
50°	1417.2	1421.8	1451.3	1494.1	1530.6	1469.3	1330.3	1260.9	1247.9	1294.3	1272.0
52.5°	1495.9	1502.0	1527.6	1581.9	1688.0	1657.6	1508.7	1431.6	1412.0	1454.3	1437.1
55°	1460.8	1474.5	1513.6	1600.6	1813.8	1945.4	1728.7	1630.8	1608.7	1643.8	1633.7
57.5°	1301.2	1319.9	1373.3	1507.7	1831.5	2198.9	2061.4	1865.5	1849.8	1839.7	1844.3
60°	1009.4	1027.4	1093.6	1268.7	1708.2	2383.9	2562.0	2154.7	2132.1	2036.4	2040.6
62.5°	714.4	705.3	750.7	878.8	1388.1	2405.7	3131.7	2541.5	2467.1	2244.1	2225.8
65°	544.8	542.7	563.1	603.9	840.7	2145.8	3471.0	3191.6	3075.4	2488.4	2445.2
67.5°	447.7	443.9	464.0	523.4	541.4	1384.3	3478.5	3945.9	3831.8	2792.5	2699.0
70°	368.1	363.9	382.6	459.3	500.3	702.1	2927.6	4387.6	4381.5	3177.5	2890.7
71°	330.0	327.0	349.5	434.6	491.5	585.1	2527.7	4388.8	4407.1	3307.8	2879.4
72.5°	268.7	269.7	293.5	386.8	485.0	516.7	1857.7	4184.2	4222.9	3432.0	2776.5
75°	178.5	179.4	210.7	297.5	470.3	505.5	1021.0	3511.0	3582.2	3357.7	2533.6
77.5°	119.9	119.6	140.9	204.1	409.7	505.5	598.7	2626.0	2704.1	2671.7	1953.2
80°	82.6	82.0	97.0	140.9	310.2	511.6	462.8	1840.3	1864.0	1442.8	793.9
82.5°	50.6	51.0	63.4	99.5	211.1	460.5	436.9	1003.5	977.7	404.7	198.3
85°	29.0	28.9	40.5	67.4	135.5	388.6	426.1	431.9	396.2	121.8	71.7
87.5°	10.4	11.2	21.7	37.3	77.7	270.6	361.5	224.6	202.5	55.0	32.4
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°	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1	987.1
2.5°	985.9	986.8	985.8	979.8	974.8	966.6	962.0	955.6	953.6	952.7	955.1
5°	989.6	989.9	981.2	965.5	948.0	927.3	912.4	894.1	885.5	881.8	884.2
7.5°	993.1	991.7	972.5	942.6	910.2	874.2	842.2	812.9	795.8	788.8	789.4
10°	993.5	987.9	957.1	910.8	860.5	807.7	758.6	713.4	684.8	666.2	671.9
12.5°	988.9	979.4	934.3	869.6	799.8	727.8	661.4	593.6	552.8	533.9	534.5
15°	985.3	968.1	906.3	821.1	727.4	632.0	541.4	461.6	418.2	398.9	389.8
17.5°	982.3	955.9	873.9	766.5	641.8	520.9	412.0	340.8	317.0	311.4	309.0
20°	978.2	942.9	837.7	703.2	544.4	396.5	300.8	265.7	265.9	272.4	273.3
22.5°	972.4	928.2	799.2	632.3	439.8	288.8	235.8	225.7	236.0	248.5	250.7
25°	963.8	910.8	756.4	553.9	335.3	222.0	201.4	201.0	213.5	226.6	228.5
27.5°	951.6	888.0	708.8	469.7	247.1	188.6	180.5	183.6	192.8	202.3	203.1
30°	935.2	861.5	656.2	380.9	193.7	168.0	167.1	169.9	175.6	182.2	182.8
32.5°	917.2	834.6	600.2	294.9	165.9	156.8	157.7	159.0	161.7	164.4	165.0
35°	900.8	807.1	542.7	224.1	152.6	149.5	148.9	148.6	148.9	148.0	148.2
37.5°	890.3	784.3	482.9	178.4	145.1	143.1	141.3	139.1	136.6	135.1	135.4
40°	886.4	767.4	422.4	154.1	138.8	137.5	134.0	129.3	126.3	125.4	125.4
42.5°	896.8	758.6	363.9	141.9	133.6	131.4	125.7	120.2	118.0	117.8	117.7
45°	928.6	762.2	308.3	135.2	128.8	124.5	117.1	112.5	111.0	111.3	111.1
47.5°	985.8	784.6	260.7	130.8	124.1	118.4	110.1	106.4	104.6	104.6	104.7
50°	1082.9	837.1	222.7	127.1	120.1	112.8	105.0	100.4	98.0	97.9	97.9
52.5°	1224.4	931.2	199.1	123.9	115.6	107.7	100.0	94.2	91.3	90.8	90.5
55°	1401.7	1066.0	192.5	121.8	109.6	102.2	93.9	88.1	84.9	83.6	83.5
57.5°	1600.1	1229.9	205.5	119.3	103.5	95.7	87.2	81.7	78.4	76.8	76.6
60°	1800.7	1408.9	258.3	115.7	98.5	88.5	80.3	75.3	72.0	70.2	69.9
62.5°	2001.7	1597.5	366.1	115.4	94.9	81.7	73.3	69.0	65.9	64.0	63.5
65°	2228.5	1804.0	488.7	123.3	93.7	75.4	66.2	62.8	60.1	58.3	58.2
67.5°	2488.8	2037.1	477.0	139.5	97.7	69.8	59.5	56.8	54.9	53.4	53.3
70°	2611.0	2000.7	296.5	151.0	103.4	64.3	53.1	51.2	49.7	48.6	48.2
71°	2559.8	1899.7	248.6	149.7	102.8	61.9	50.6	49.1	47.6	46.7	46.3
72.5°	2420.2	1732.5	207.4	139.3	96.1	57.6	47.3	45.8	44.5	43.4	43.1
75°	2171.8	1547.2	166.0	111.3	76.6	48.6	41.5	39.9	38.8	38.2	37.6
77.5°	1596.5	1104.2	128.4	87.9	56.4	39.7	35.4	34.2	33.2	32.3	31.8
80°	611.6	427.7	86.4	65.6	41.4	31.4	28.6	28.0	26.9	26.3	26.3
82.5°	164.7	127.8	46.1	39.7	27.7	22.9	21.9	21.6	20.7	19.5	19.6
85°	66.7	56.4	25.9	21.9	17.0	13.5	14.7	14.9	13.8	12.3	12.5
87.5°	29.3	24.0	14.4	9.7	7.4	5.2	6.7	6.7	6.1	5.1	4.6
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)