

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: P318545

Luminaire Tested: **GAN-SA1A-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318545
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA1A-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3878 lumens
Efficiency: N/A
Efficacy: 114.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
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

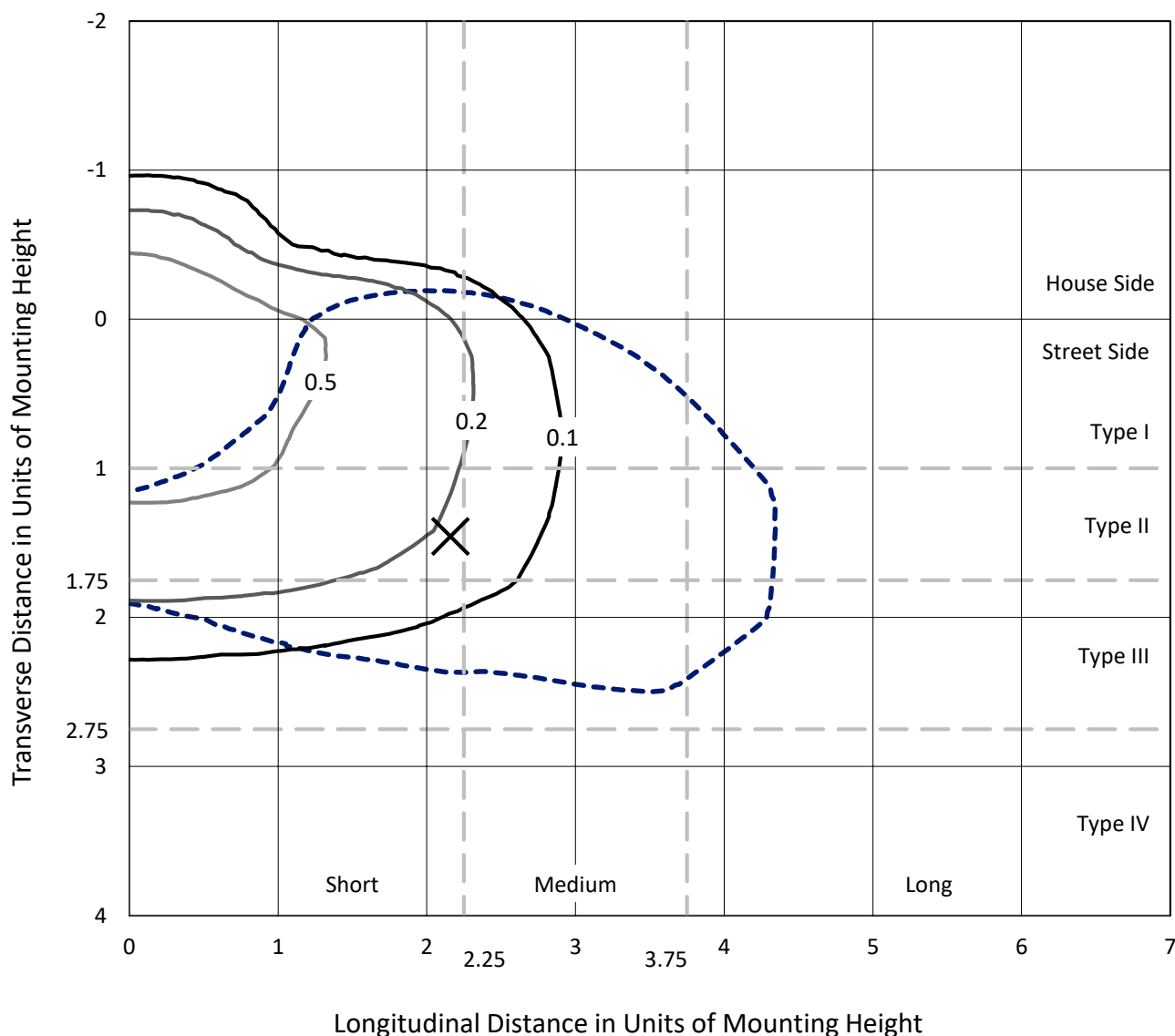


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

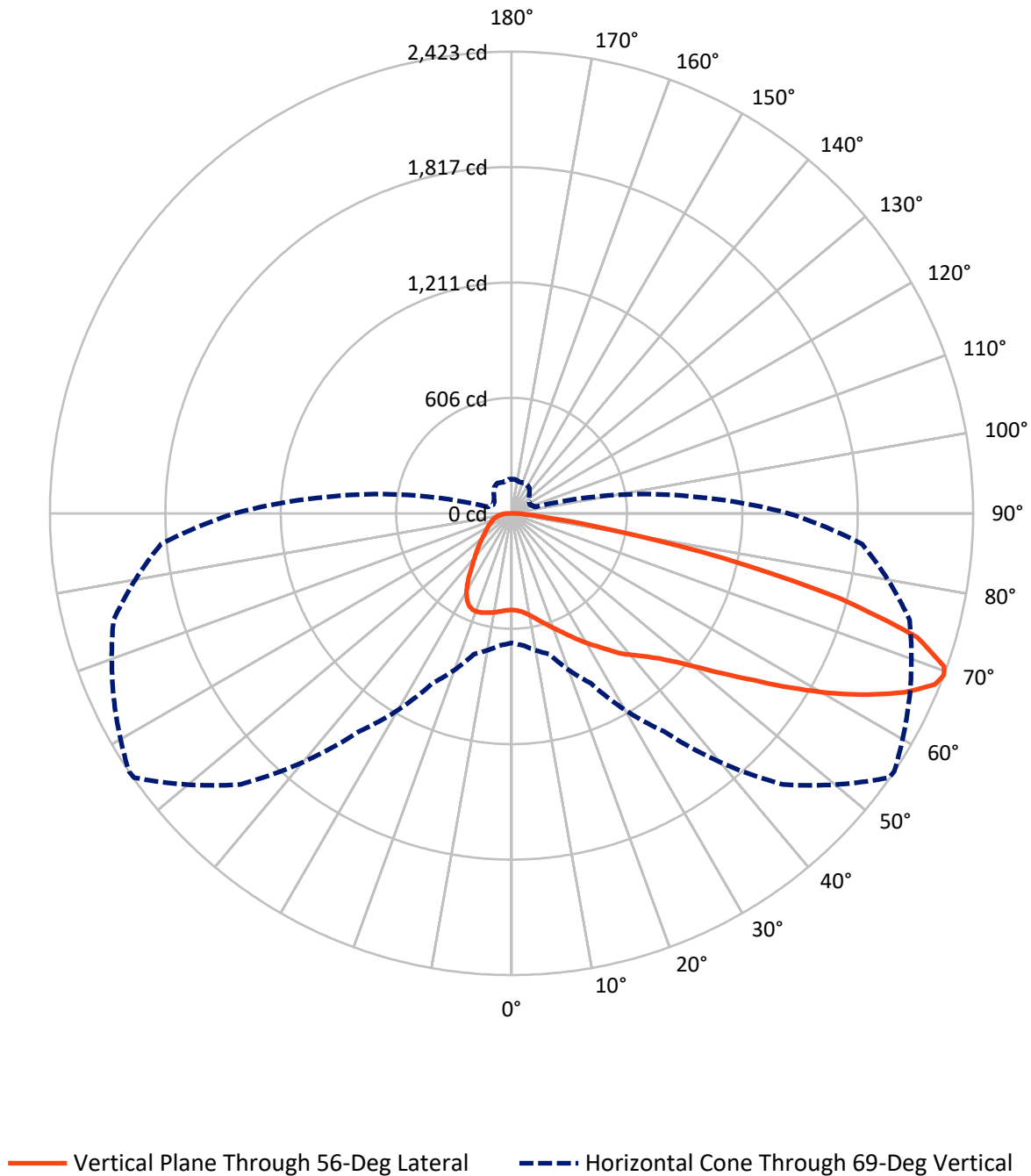
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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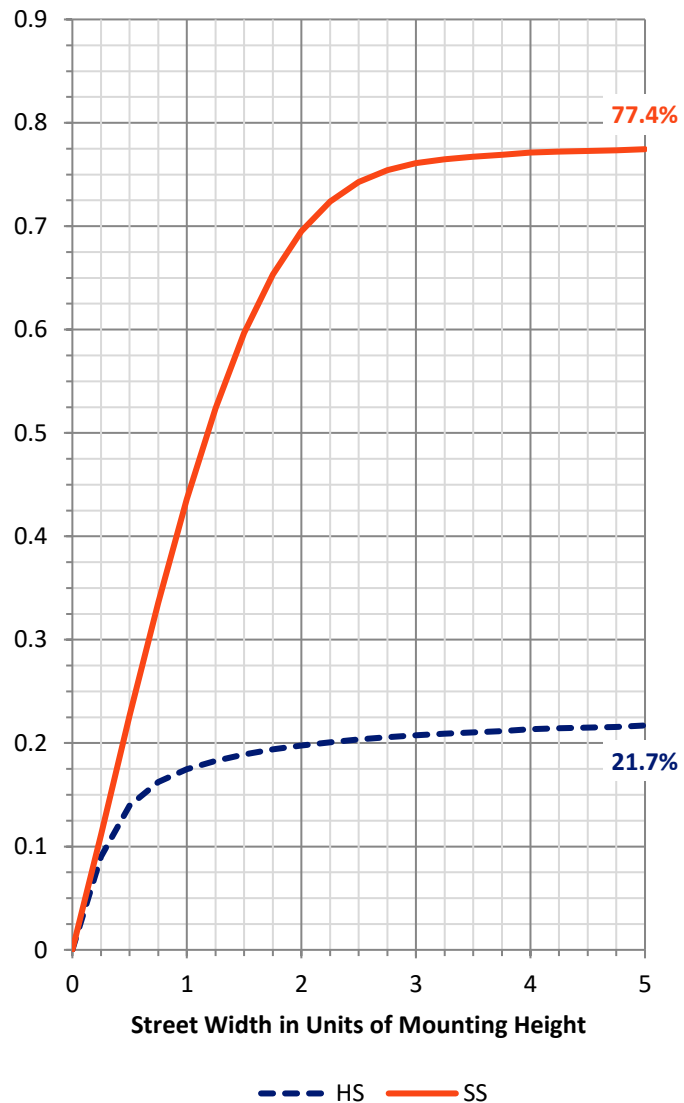
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	863.6	0.0	863.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	3014.4	0.0	3014.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	3878.0	0.0	3878.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.8	1.3
10°-20°	160.1	4.1
20°-30°	279.5	7.2
30°-40°	401.5	10.4
40°-50°	555.7	14.3
50°-60°	814.1	21.0
60°-70°	992.6	25.6
70°-80°	548.8	14.2
80°-90°	76.0	2.0
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°	3878.0	100.0
0°-180°	3878.0	100.0

Coefficient of Utilization



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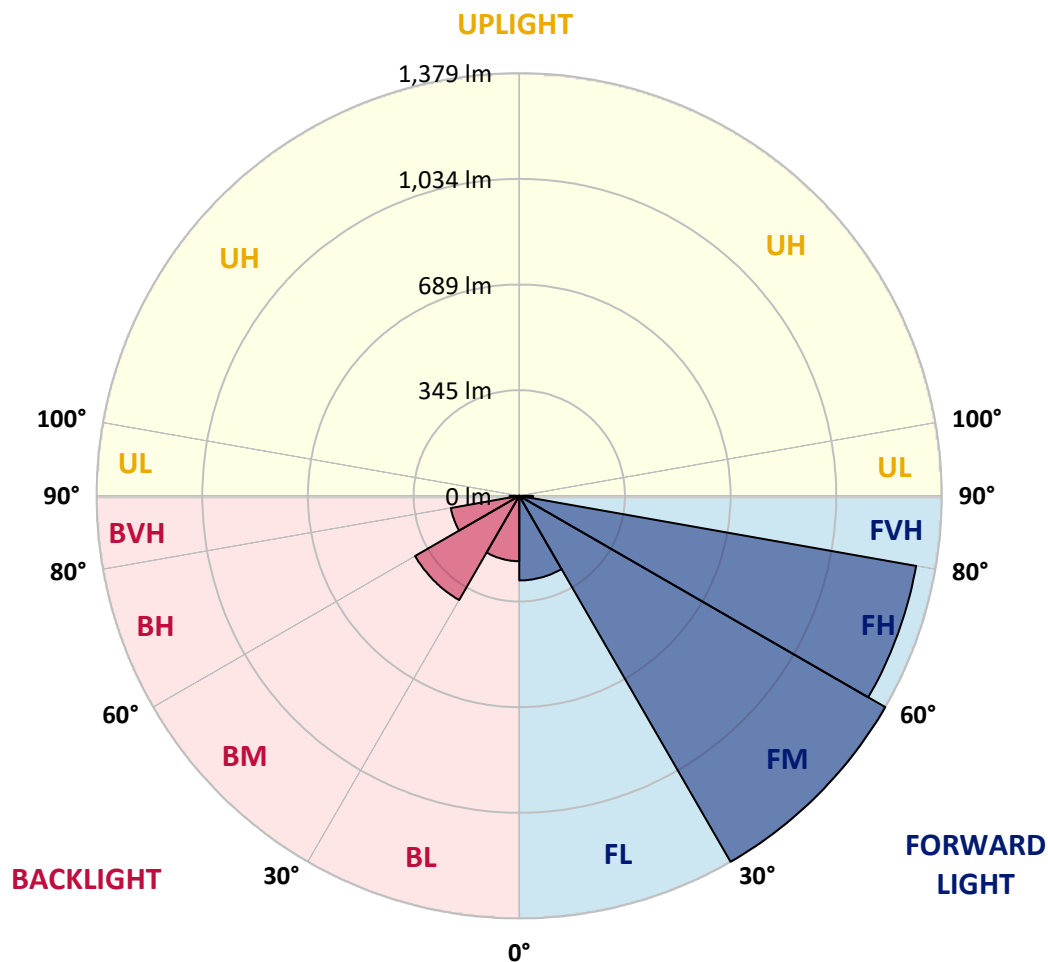
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	276.0	7.1			
FM	(30°-60°)	1378.8	35.6			
FH	(60°-80°)	1314.8	33.9			G1/1800
FVH	(80°-90°)	44.8	1.2			G1/100
BL	(0°-30°)	213.4	5.5	B1/500		
BM	(30°-60°)	392.5	10.1	B1/1000		
BH	(60°-80°)	226.5	5.8	B1/500		G1/500
BVH	(80°-90°)	31.2	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0
2.5°	510.2	510.7	510.3	511.4	510.2	511.0	510.3	510.3	509.9	508.7	507.4
5°	518.2	519.3	518.6	519.7	518.2	518.5	517.3	517.3	516.1	513.5	510.9
7.5°	530.8	532.0	531.4	532.5	530.5	530.5	528.9	528.8	526.4	522.2	519.1
10°	545.7	547.3	546.8	548.4	546.8	547.3	545.7	545.7	542.5	536.6	532.8
12.5°	567.5	569.5	568.0	567.9	567.2	568.3	567.0	566.7	563.8	555.8	550.4
15°	596.6	598.8	595.7	595.4	591.7	591.3	591.3	590.9	589.0	579.4	570.6
17.5°	630.2	630.8	628.2	623.9	619.1	616.0	615.6	616.7	616.7	605.4	591.4
20°	663.0	664.2	662.1	657.3	651.1	646.6	643.4	645.5	645.4	632.0	612.1
22.5°	698.8	701.6	698.4	692.3	685.1	680.0	674.4	676.3	676.4	660.0	632.4
25°	745.2	742.7	740.6	732.0	721.7	716.5	711.3	713.1	712.6	690.0	653.4
27.5°	786.2	786.7	784.1	774.8	763.0	751.5	751.2	752.4	750.4	721.3	673.2
30°	833.9	834.2	830.4	822.1	809.2	794.4	790.9	792.9	788.6	750.9	694.0
32.5°	881.3	882.7	878.5	868.5	858.1	840.0	833.1	834.4	823.7	781.3	715.5
35°	922.9	924.7	923.4	916.7	905.4	889.9	881.6	880.8	867.6	818.4	744.0
37.5°	965.2	967.0	965.5	959.9	955.3	938.9	934.5	934.5	911.5	856.3	780.2
40°	1008.8	1011.4	1009.7	1002.0	998.1	990.6	980.0	977.5	952.7	901.9	839.2
42.5°	1049.2	1052.7	1059.7	1055.1	1047.2	1048.3	1027.1	1025.7	1007.6	969.2	913.4
45°	1106.7	1111.8	1123.5	1120.1	1118.5	1112.6	1087.3	1086.1	1079.2	1059.8	1005.4
47.5°	1169.4	1176.3	1197.5	1198.2	1215.4	1204.4	1170.0	1165.9	1167.5	1168.3	1117.8
50°	1227.1	1234.7	1269.5	1286.0	1326.6	1329.0	1274.1	1270.3	1276.6	1295.1	1248.7
52.5°	1273.2	1282.8	1326.3	1377.1	1446.7	1466.5	1402.2	1399.4	1404.1	1435.9	1396.7
55°	1307.0	1317.4	1364.8	1457.2	1568.4	1603.3	1549.7	1547.0	1550.0	1590.4	1557.7
57.5°	1314.8	1317.4	1386.2	1511.2	1671.1	1754.9	1730.2	1724.8	1710.4	1745.7	1735.4
60°	1277.8	1288.0	1368.5	1530.2	1750.6	1904.4	1918.8	1912.1	1871.7	1900.5	1892.2
62.5°	1202.7	1220.9	1302.7	1501.3	1781.7	2026.5	2103.8	2095.8	2026.1	2044.8	2005.0
65°	1080.1	1087.9	1173.8	1401.8	1742.2	2104.6	2268.8	2264.8	2177.1	2147.8	2025.8
67.5°	860.7	875.3	948.3	1193.8	1580.4	2095.4	2396.4	2396.0	2275.6	2186.0	1951.9
69°	680.0	695.1	764.6	983.4	1398.5	2011.1	2417.8	2422.5	2303.4	2162.8	1846.4
70°	542.1	559.6	607.3	828.3	1236.9	1900.0	2400.0	2408.4	2298.1	2124.4	1749.0
72.5°	230.7	244.9	278.8	427.0	753.9	1418.8	2194.4	2226.2	2174.2	1944.3	1445.5
75°	100.7	105.1	120.5	174.1	334.7	772.2	1719.1	1777.9	1859.1	1643.5	1076.8
77.5°	73.7	75.6	84.0	102.2	150.2	291.6	1105.5	1139.7	1340.8	1195.9	660.5
80°	57.0	58.4	64.9	75.1	98.1	118.0	504.2	533.6	753.9	614.3	275.1
82.5°	45.4	46.4	50.9	55.3	67.7	71.5	167.4	185.7	278.3	169.7	72.8
85°	42.2	43.3	44.9	40.3	43.4	41.9	72.4	75.7	84.0	66.7	30.5
87.5°	19.1	22.6	44.5	31.4	23.1	18.4	29.7	31.0	34.9	35.0	13.5
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°	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0	507.0
2.5°	508.2	507.8	508.5	506.9	508.9	508.7	508.1	508.3	509.7	509.5	509.7
5°	511.3	511.0	511.8	510.6	513.0	513.8	513.9	515.1	516.6	517.0	517.0
7.5°	519.0	519.0	519.4	517.8	519.4	519.3	518.6	519.8	521.3	521.4	521.3
10°	532.4	532.5	531.8	527.7	526.4	522.8	519.4	519.5	521.4	522.9	523.3
12.5°	549.2	548.7	545.7	538.1	532.5	525.2	521.7	521.6	523.4	524.6	525.0
15°	568.4	567.0	559.4	546.9	537.0	529.8	524.2	522.9	521.8	520.5	520.6
17.5°	586.6	583.3	570.6	553.3	542.9	533.3	522.5	513.8	507.8	504.3	503.2
20°	605.0	598.5	580.2	559.4	546.1	528.6	507.8	490.2	479.2	474.1	473.2
22.5°	621.9	611.3	589.2	565.6	543.6	512.9	480.1	454.5	439.3	432.4	433.0
25°	638.3	623.6	598.5	570.0	530.8	485.1	441.7	410.1	392.5	384.9	384.6
27.5°	652.7	636.0	608.7	566.4	506.9	445.5	396.1	365.4	350.7	344.1	343.1
30°	669.3	651.7	622.1	552.7	471.9	399.8	351.6	330.0	319.6	313.0	311.8
32.5°	689.5	672.9	633.2	527.7	427.1	352.2	316.9	301.8	292.3	285.0	283.6
35°	718.9	701.0	636.0	491.9	377.9	314.5	291.4	275.9	263.0	253.6	252.6
37.5°	755.7	736.1	629.6	445.5	330.2	290.0	270.1	251.0	234.3	221.0	218.8
40°	808.9	779.3	611.9	392.1	295.1	271.2	249.4	227.6	206.9	191.3	188.2
42.5°	872.8	829.9	584.6	338.9	269.3	252.1	228.8	201.9	182.1	171.0	169.4
45°	954.0	882.5	546.8	292.4	243.9	233.0	206.7	181.8	169.5	161.4	160.0
47.5°	1046.7	941.6	507.1	254.6	222.4	215.1	188.9	172.9	163.1	156.7	155.5
50°	1160.7	1008.2	465.0	223.6	200.8	193.6	180.5	167.9	160.2	155.2	154.0
52.5°	1289.2	1083.4	434.7	199.2	182.9	177.7	176.1	165.3	159.0	155.2	154.0
55°	1427.6	1160.0	402.0	178.6	167.4	168.9	173.1	165.5	161.2	156.7	155.0
57.5°	1566.1	1239.1	365.5	161.2	155.1	162.3	171.1	166.1	162.5	158.0	156.4
60°	1675.7	1289.2	309.0	146.7	145.4	155.1	166.3	162.0	157.4	157.5	157.2
62.5°	1726.8	1286.5	246.6	133.7	135.6	145.4	158.6	155.8	151.9	157.1	157.5
65°	1698.1	1222.4	192.0	122.0	125.2	135.2	150.6	152.7	154.0	164.1	165.4
67.5°	1577.6	1097.6	148.7	111.7	115.7	128.3	151.4	166.3	168.1	178.6	178.5
69°	1453.0	980.6	129.2	106.3	111.0	130.0	161.8	175.0	168.5	179.7	178.1
70°	1348.5	888.0	118.8	102.7	108.9	133.1	168.7	174.9	166.5	176.1	173.4
72.5°	1038.6	638.8	100.7	96.1	101.7	127.3	170.7	171.0	161.8	163.7	159.1
75°	712.3	403.7	87.9	87.0	90.7	114.8	164.3	163.4	149.6	147.0	143.2
77.5°	392.8	205.1	74.7	78.3	80.8	101.7	149.4	148.0	136.7	131.1	129.7
80°	151.5	89.8	63.1	69.6	71.2	88.0	130.9	129.7	120.2	113.0	111.0
82.5°	57.2	47.0	52.1	60.3	59.7	72.7	110.9	110.2	101.0	90.4	87.2
85°	26.5	28.2	41.3	49.7	45.8	53.8	88.7	89.9	78.7	66.1	66.1
87.5°	11.2	15.8	29.3	37.5	30.9	36.3	65.1	62.1	57.0	39.5	37.1
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)