

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: P322846

Luminaire Tested: **GAN-SA2C-730-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2C-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9553 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

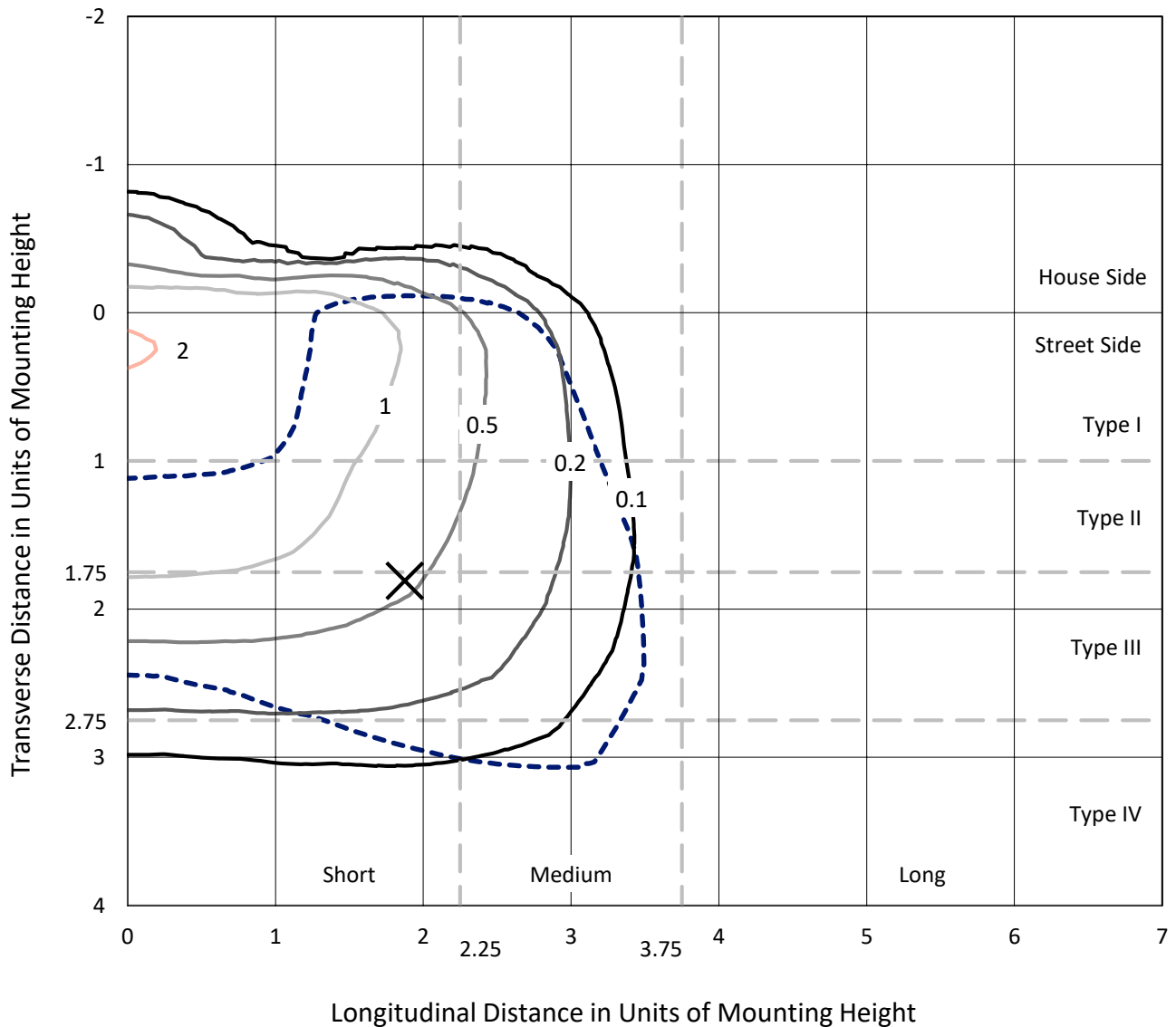
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322846
 CATALOG NUMBER: GAN-SA2C-730-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

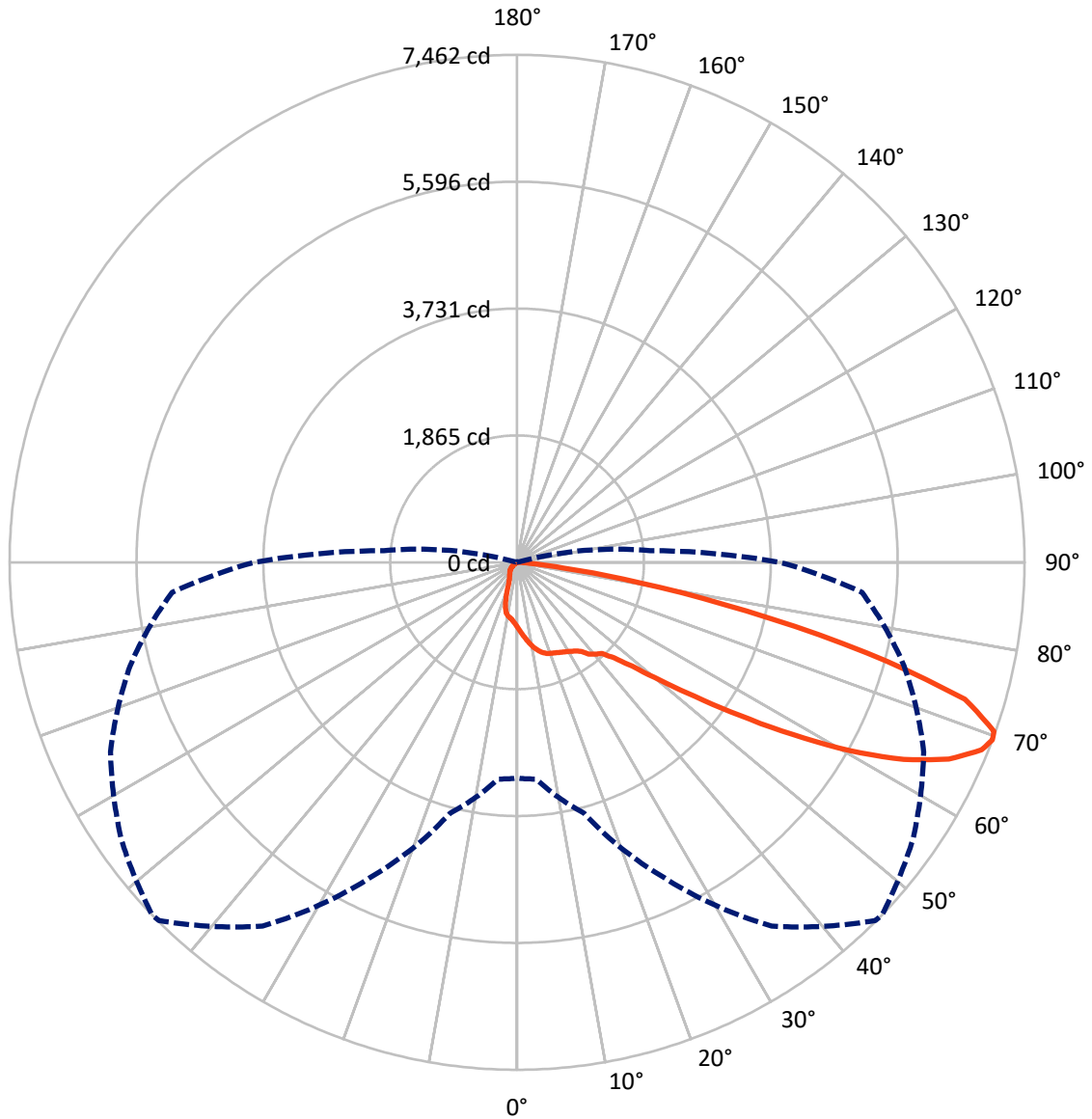
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P322846
CATALOG NUMBER: GAN-SA2C-730-U-T4W-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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 CATALOG NUMBER: GAN-SA2C-730-U-T4W-HSS

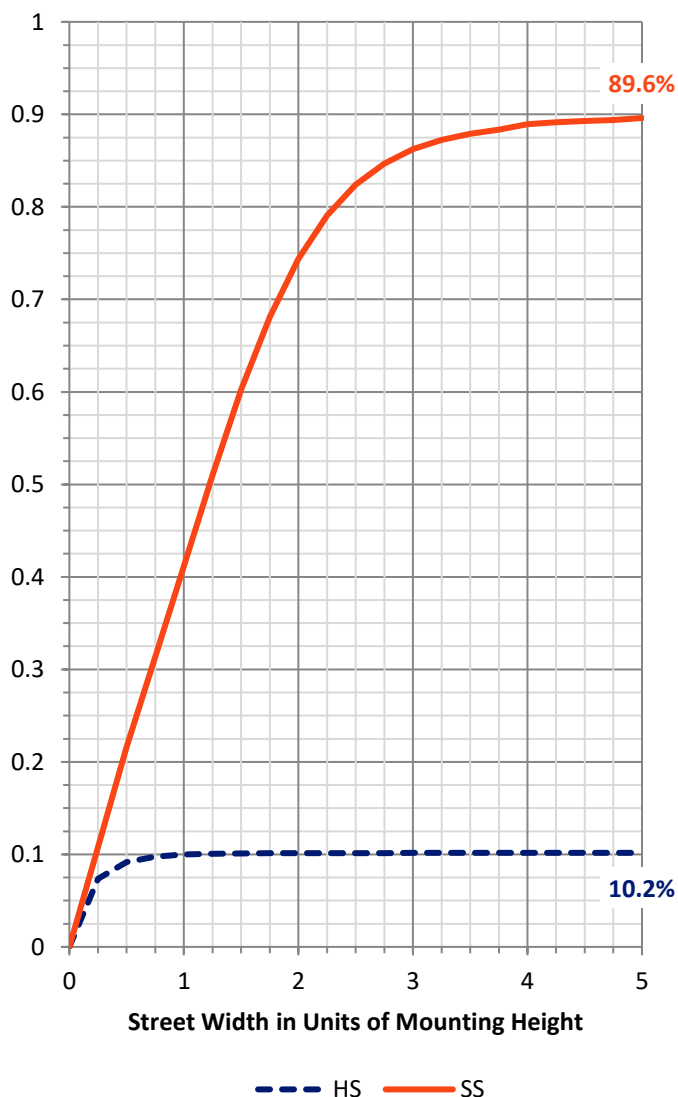
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	980.4	0.0	980.4
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	8572.6	0.0	8572.6
	% Fixture	89.7	0.0	89.7
Total	Lumens	9553.0	0.0	9553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	1.0
10°-20°	289.0	3.0
20°-30°	454.6	4.8
30°-40°	651.8	6.8
40°-50°	1126.6	11.8
50°-60°	2225.7	23.3
60°-70°	3110.6	32.6
70°-80°	1502.8	15.7
80°-90°	96.6	1.0
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°	9553.0	100.0
0°-180°	9553.0	100.0

Coefficient of Utilization

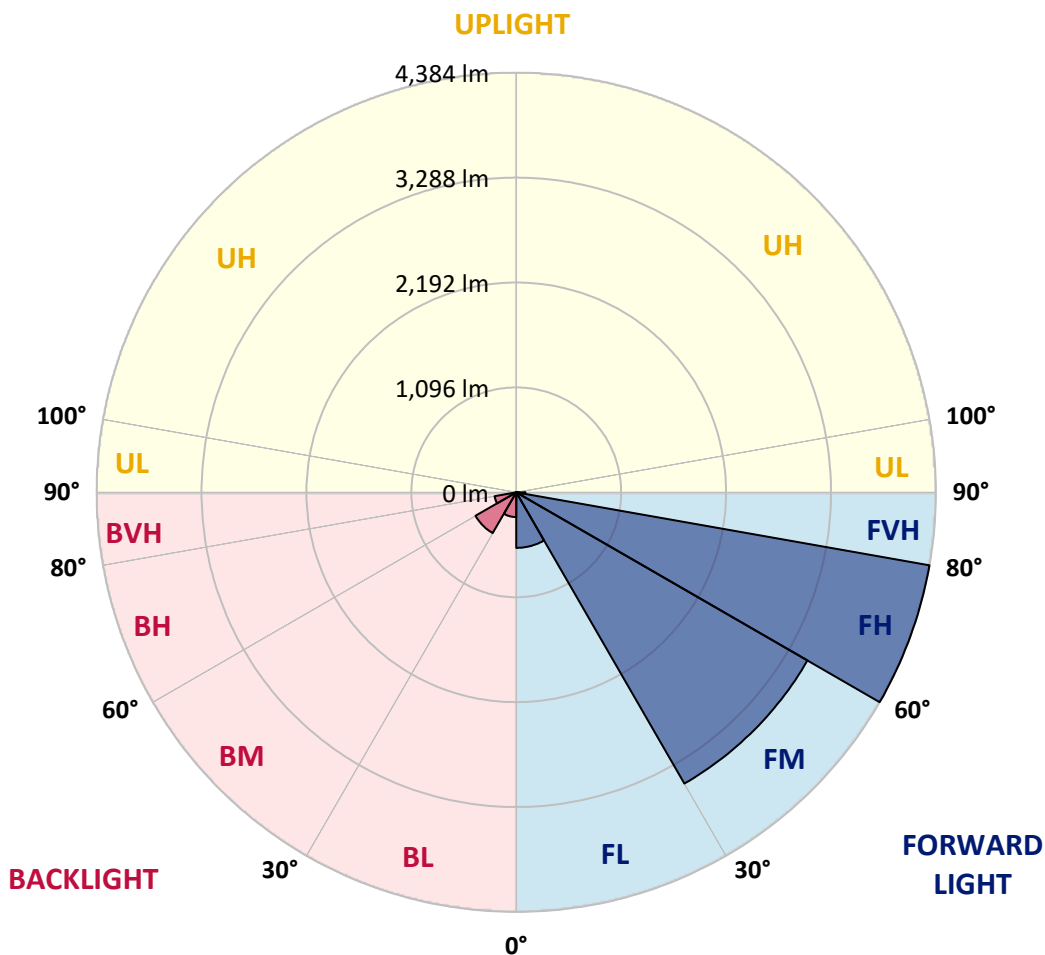


REPORT NUMBER: P322846
 CATALOG NUMBER: GAN-SA2C-730-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	580.5	6.1			
FM (30°-60°)	3512.9	36.8			
FH (60°-80°)	4383.5	45.9			G2/5000
FVH (80°-90°)	95.8	1.0			G1/100
BL (0°-30°)	258.4	2.7	B1/500		
BM (30°-60°)	491.3	5.1	B1/1000		
BH (60°-80°)	229.9	2.4	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
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





REPORT NUMBER: P322846

CATALOG NUMBER: GAN-SA2C-730-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2
2.5°	1063.3	1062.0	1055.7	1053.0	1037.8	1028.8	1025.3	1014.1	997.9	981.8	963.9
5°	1184.3	1183.8	1172.2	1161.0	1132.3	1105.4	1100.5	1074.5	1038.2	1004.2	970.2
7.5°	1307.9	1302.1	1290.4	1268.9	1227.3	1184.3	1180.2	1143.5	1092.0	1042.7	993.9
10°	1412.7	1409.1	1393.9	1361.2	1312.4	1263.5	1258.6	1213.4	1155.1	1094.7	1032.4
12.5°	1494.2	1491.5	1471.4	1430.6	1378.7	1328.0	1321.3	1281.0	1218.8	1151.1	1077.7
15°	1543.9	1542.6	1518.0	1474.5	1423.4	1379.6	1373.7	1338.3	1280.6	1209.8	1126.9
17.5°	1555.6	1556.0	1530.5	1486.6	1444.5	1413.1	1408.7	1381.8	1333.4	1263.1	1176.2
20°	1529.6	1535.0	1512.1	1474.1	1448.1	1431.5	1427.9	1411.8	1371.0	1304.7	1215.6
22.5°	1492.9	1495.6	1479.9	1454.4	1443.6	1446.7	1444.9	1436.0	1401.5	1340.6	1254.6
25°	1470.5	1470.5	1461.1	1439.6	1446.7	1466.0	1466.4	1464.7	1437.3	1384.5	1302.1
27.5°	1469.6	1466.9	1456.1	1440.0	1459.7	1489.3	1491.1	1503.2	1486.2	1437.8	1361.2
30°	1505.4	1502.3	1479.4	1458.4	1483.5	1515.3	1519.7	1546.2	1537.7	1495.6	1427.0
32.5°	1589.2	1578.0	1527.4	1492.9	1511.7	1549.8	1555.6	1597.7	1611.1	1566.8	1490.6
35°	1703.8	1668.4	1595.4	1558.3	1560.1	1599.9	1605.3	1667.1	1707.0	1632.2	1539.9
37.5°	1861.9	1844.5	1725.8	1626.3	1634.4	1694.9	1710.6	1777.7	1766.5	1668.0	1595.9
40°	2208.6	2181.3	2055.0	1817.2	1705.6	1771.9	1776.8	1812.7	1813.6	1749.1	1712.3
42.5°	2680.7	2669.5	2536.5	2163.4	1845.8	1823.4	1832.4	1892.9	1960.5	1920.2	1918.4
45°	3203.4	3197.6	3056.5	2622.9	2129.3	1992.3	2003.5	2084.6	2214.0	2223.0	2279.8
47.5°	3624.0	3621.3	3540.2	3135.8	2563.4	2278.5	2282.1	2368.1	2595.6	2708.0	2799.0
50°	4007.4	4020.4	3956.4	3690.7	3154.6	2726.9	2718.3	2775.7	3141.2	3325.3	3438.1
52.5°	4540.4	4558.8	4379.2	4208.5	3775.0	3283.2	3276.4	3336.5	3796.9	3934.9	3955.0
55°	5011.2	4979.8	4837.8	4788.6	4531.5	3970.2	3968.4	4021.3	4431.1	4489.8	4527.0
57.5°	5219.0	5206.9	5275.4	5388.3	5323.8	4782.3	4778.3	4737.9	4998.6	5004.9	5119.1
60°	5350.2	5365.0	5575.1	5923.1	6083.9	5656.2	5630.2	5384.3	5540.6	5526.7	5649.0
62.5°	5251.7	5280.8	5658.8	6238.9	6652.7	6418.9	6382.2	5976.4	6003.7	5955.8	6069.6
65°	4728.5	4773.8	5393.2	6179.3	6934.9	7015.1	6977.9	6499.1	6371.5	6292.6	6229.5
67.5°	3839.4	3866.3	4513.1	5661.1	6807.7	7370.7	7363.1	6957.3	6649.2	6235.7	5745.7
69°	3173.0	3199.4	3822.0	5115.5	6527.8	7446.9	7461.7	7104.2	6596.3	5890.0	5090.9
70°	2687.4	2715.7	3295.7	4647.9	6203.0	7411.5	7437.9	7090.4	6444.9	5489.5	4516.2
72.5°	1409.6	1433.7	2029.0	3202.1	5056.9	6805.5	6885.7	6491.1	5463.1	3986.8	2670.4
75°	443.0	456.9	792.3	1673.8	3462.3	5291.6	5309.9	5091.8	3879.3	2192.9	1112.2
77.5°	168.9	164.8	263.8	616.8	1750.4	3332.0	3444.4	3181.9	2035.7	775.3	256.7
80°	90.9	91.4	137.1	255.3	748.9	1712.3	1807.3	1542.1	723.4	241.9	59.1
82.5°	39.4	41.2	77.0	135.3	344.0	631.5	679.0	565.3	276.4	162.6	21.9
85°	8.5	9.4	37.2	73.5	140.2	177.4	185.9	183.2	176.0	126.3	8.5
87.5°	0.0	0.0	16.6	26.4	35.4	40.3	35.4	46.1	97.2	85.1	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P322846

CATALOG NUMBER: GAN-SA2C-730-U-T4W-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2	957.2
2.5°	958.1	950.0	936.1	920.9	910.1	898.9	890.0	886.0	881.5	878.3	882.4
5°	956.3	940.6	913.7	887.7	868.9	853.7	841.2	836.2	831.3	827.7	827.3
7.5°	972.0	950.0	908.8	870.7	841.6	821.0	804.0	796.8	791.0	788.3	786.1
10°	1002.0	973.7	918.7	868.9	831.3	796.4	759.6	731.4	713.1	704.6	701.4
12.5°	1040.9	1005.5	937.5	878.3	823.7	756.5	678.6	611.4	567.9	553.6	545.1
15°	1086.6	1042.7	962.1	890.4	795.9	673.2	541.1	453.3	413.0	404.9	395.9
17.5°	1130.5	1082.1	991.7	892.7	735.0	537.9	396.4	336.8	321.1	326.5	327.9
20°	1169.0	1121.1	1020.8	873.0	624.4	403.6	306.8	292.0	297.9	308.2	310.0
22.5°	1208.0	1158.7	1047.7	821.0	482.8	306.4	276.4	279.9	285.8	296.1	297.9
25°	1255.5	1204.4	1072.7	725.6	362.4	260.7	262.5	267.8	273.7	283.1	284.0
27.5°	1310.1	1262.2	1089.3	601.5	268.7	239.6	245.5	253.5	259.3	268.3	270.1
30°	1382.7	1338.3	1094.7	473.0	225.3	220.8	223.5	233.4	241.9	249.9	251.3
32.5°	1450.8	1413.6	1076.8	357.0	208.7	203.3	203.3	209.2	219.0	226.6	228.4
35°	1513.5	1489.3	1019.4	261.1	196.2	187.2	182.7	182.7	189.0	195.3	197.1
37.5°	1596.3	1595.4	926.7	208.3	184.1	173.8	164.4	157.2	155.0	156.3	157.2
40°	1738.3	1739.7	805.8	186.8	173.8	159.9	145.6	132.6	120.5	116.5	116.0
42.5°	1960.0	1939.9	679.0	176.5	164.8	145.6	124.1	106.6	87.8	82.0	81.5
45°	2312.1	2192.5	544.7	167.1	155.4	129.4	102.6	78.8	63.6	59.1	59.1
47.5°	2824.9	2524.4	421.9	156.8	142.9	111.1	77.5	56.9	46.6	44.3	44.8
50°	3355.3	2849.6	323.4	143.8	127.7	91.8	57.3	41.2	35.4	35.4	35.8
52.5°	3825.6	3087.9	252.2	129.9	108.8	72.1	43.4	32.2	29.6	29.1	29.6
55°	4265.9	3241.5	193.0	113.8	86.4	53.7	33.1	26.4	24.6	23.7	23.3
57.5°	4690.5	3317.6	144.7	91.8	62.7	39.0	26.4	22.4	20.6	19.3	18.8
60°	4973.1	3255.8	99.4	67.6	43.4	28.2	21.9	19.3	17.0	15.7	15.2
62.5°	5132.6	3087.0	64.1	48.8	30.9	21.1	17.5	16.1	13.0	11.6	11.6
65°	5068.1	2808.4	44.8	34.9	22.4	15.7	13.0	13.0	9.4	7.6	7.2
67.5°	4491.2	2372.6	34.0	26.0	16.1	11.6	9.9	11.2	5.8	3.6	3.6
69°	3864.1	1966.3	29.1	21.5	13.4	9.4	8.5	10.3	4.0	2.7	2.2
70°	3358.4	1696.2	26.4	18.8	11.2	8.1	7.6	9.9	4.0	2.2	1.8
72.5°	2009.3	946.0	20.2	13.4	7.2	6.3	6.3	11.2	4.0	2.2	1.8
75°	812.1	333.2	14.8	9.4	5.4	5.4	7.6	14.3	3.6	1.8	1.3
77.5°	184.1	73.0	8.5	5.8	3.6	5.4	9.0	11.2	2.2	0.9	0.0
80°	44.8	17.9	5.4	3.6	2.2	4.0	6.7	6.3	0.4	0.0	0.0
82.5°	14.8	6.3	2.2	1.8	0.4	1.3	3.1	1.8	0.0	0.0	0.0
85°	6.3	3.6	0.9	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	4.0	1.3	0.0	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)