

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: P318556

Luminaire Tested: **GAN-SA2B-830-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318556
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-SA2B-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9293 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

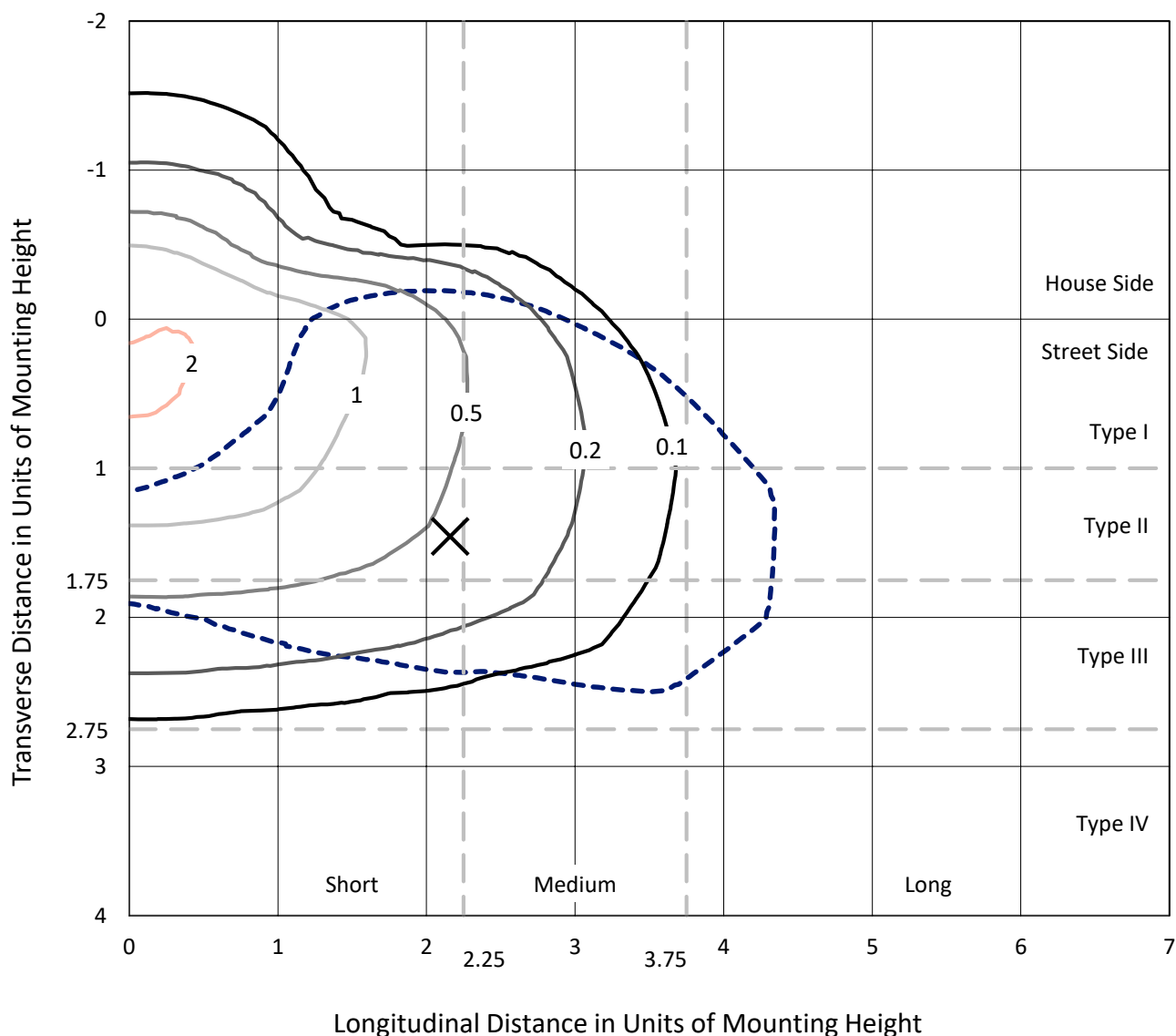
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318556
 CATALOG NUMBER: GAN-SA2B-830-U-T3

Iso-Footcandle Lines of Horizontal Illumination

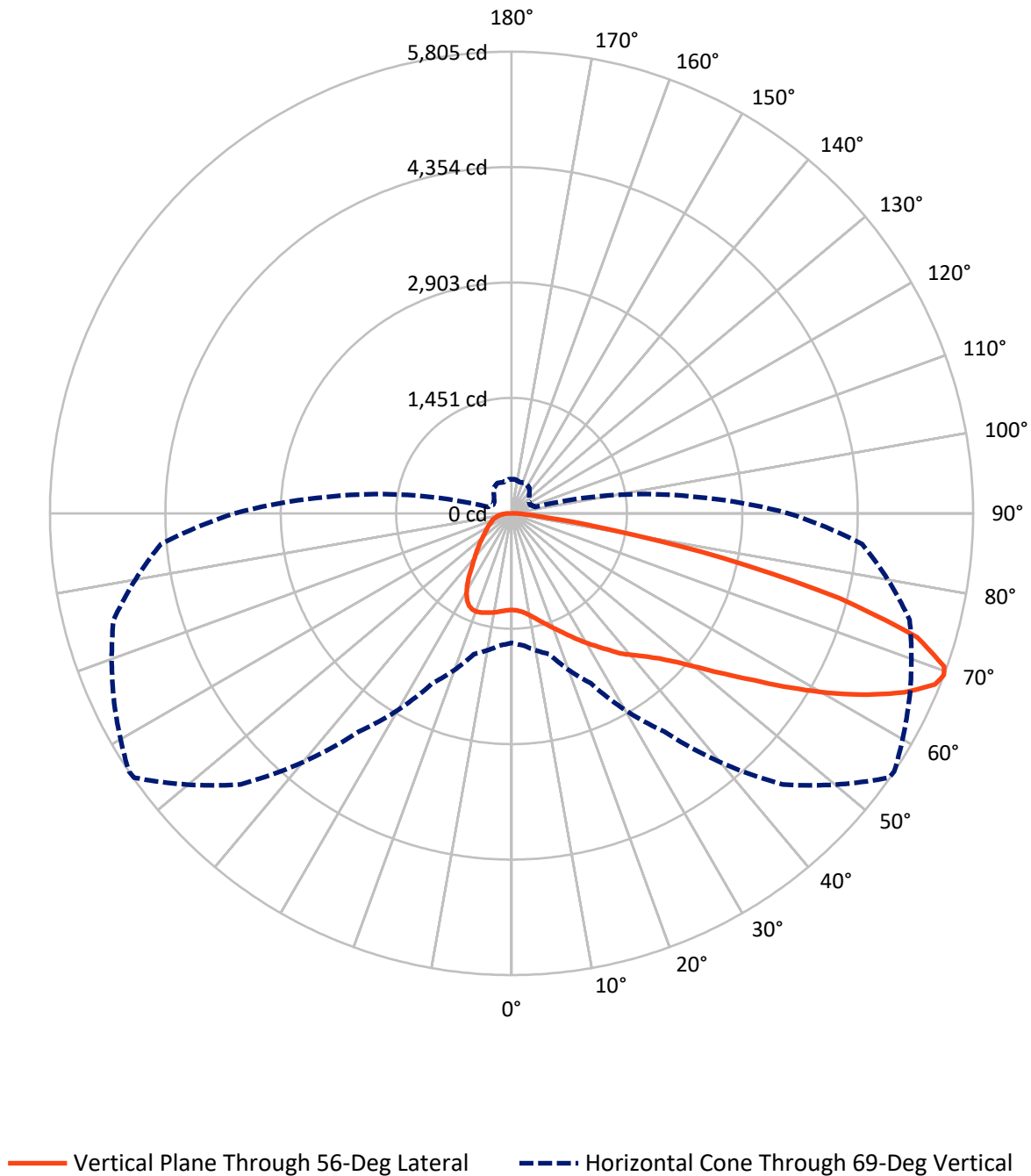
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - N/A

REPORT NUMBER: P318556
CATALOG NUMBER: GAN-SA2B-830-U-T3

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2069.5	0.0	2069.5
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	7223.5	0.0	7223.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	9293.0	0.0	9293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.3	1.3
10°-20°	383.7	4.1
20°-30°	669.8	7.2
30°-40°	962.1	10.4
40°-50°	1331.5	14.3
50°-60°	1950.9	21.0
60°-70°	2378.5	25.6
70°-80°	1315.0	14.2
80°-90°	182.1	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°	9293.0	100.0
0°-180°	9293.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318556

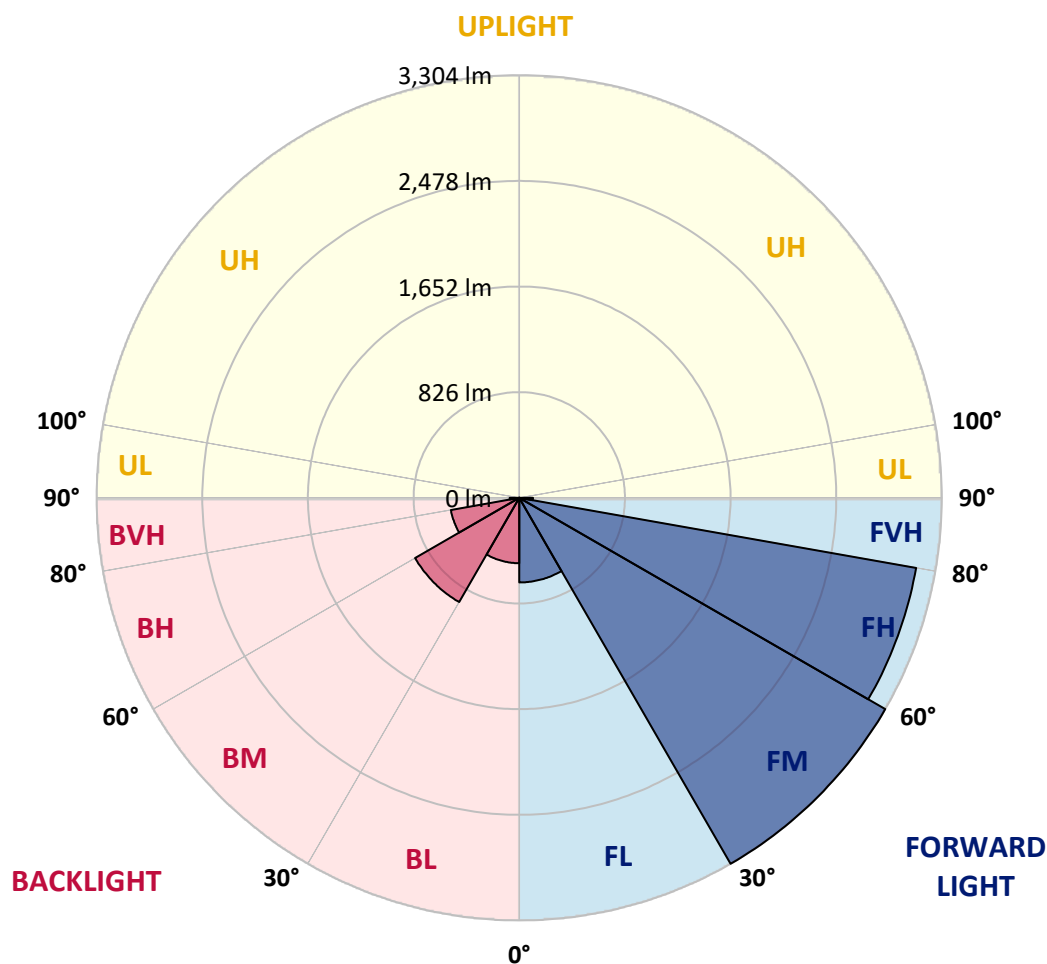
CATALOG NUMBER: GAN-SA2B-830-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	661.4	7.1			
FM	(30°-60°)	3304.0	35.6			
FH	(60°-80°)	3150.8	33.9			G2/5000
FVH	(80°-90°)	107.3	1.2			G2/225
BL	(0°-30°)	511.4	5.5	B2/1000		
BM	(30°-60°)	940.6	10.1	B1/1000		
BH	(60°-80°)	542.7	5.8	B2/1000		G2/1000
BVH	(80°-90°)	74.9	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





REPORT NUMBER: P318556

CATALOG NUMBER: GAN-SA2B-830-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1214.9	1214.9	1214.9	1214.9	1214.9	1214.9	1214.9	1214.9	1214.9	1214.9	1214.9
2.5°	1222.6	1223.9	1222.9	1225.5	1222.6	1224.5	1222.9	1222.9	1222.0	1219.1	1215.9
5°	1241.8	1244.4	1242.8	1245.3	1241.8	1242.5	1239.6	1239.6	1236.7	1230.6	1224.2
7.5°	1271.9	1274.8	1273.5	1276.1	1271.3	1271.3	1267.4	1267.1	1261.3	1251.4	1244.1
10°	1307.8	1311.6	1310.3	1314.2	1310.3	1311.6	1307.8	1307.8	1300.1	1286.0	1276.7
12.5°	1359.9	1364.7	1361.2	1360.9	1359.3	1361.9	1358.7	1358.0	1351.0	1331.8	1319.0
15°	1429.7	1434.9	1427.5	1426.9	1417.9	1416.9	1416.9	1416.0	1411.5	1388.4	1367.3
17.5°	1510.1	1511.7	1505.3	1495.0	1483.5	1476.2	1475.2	1477.8	1477.8	1450.9	1417.2
20°	1588.8	1591.7	1586.6	1575.1	1560.3	1549.5	1541.8	1546.9	1546.6	1514.6	1466.9
22.5°	1674.6	1681.4	1673.7	1658.9	1641.7	1629.5	1616.1	1620.5	1620.9	1581.5	1515.5
25°	1785.7	1779.6	1774.8	1754.0	1729.4	1716.9	1704.4	1708.9	1707.6	1653.5	1565.8
27.5°	1884.0	1885.3	1878.9	1856.8	1828.3	1800.8	1800.1	1803.0	1798.2	1728.4	1613.2
30°	1998.3	1998.9	1990.0	1970.1	1939.1	1903.5	1895.2	1900.0	1889.8	1799.5	1663.1
32.5°	2111.9	2115.1	2105.2	2081.2	2056.2	2013.0	1996.4	1999.6	1974.0	1872.2	1714.7
35°	2211.5	2216.0	2212.8	2196.8	2169.6	2132.4	2112.6	2110.7	2079.0	1961.2	1782.8
37.5°	2313.0	2317.2	2313.6	2300.2	2289.3	2249.9	2239.4	2239.4	2184.3	2052.1	1869.6
40°	2417.4	2423.8	2419.6	2401.0	2391.7	2373.8	2348.5	2342.4	2282.9	2161.2	2011.1
42.5°	2514.4	2522.7	2539.3	2528.4	2509.6	2512.1	2461.2	2458.0	2414.5	2322.6	2188.8
45°	2652.0	2664.2	2692.4	2684.0	2680.2	2666.1	2605.6	2602.7	2586.1	2539.6	2409.4
47.5°	2802.2	2818.8	2869.7	2871.3	2912.6	2886.0	2803.8	2793.8	2797.7	2799.6	2678.6
50°	2940.5	2958.7	3042.3	3081.6	3179.0	3184.7	3053.1	3044.2	3059.2	3103.4	2992.3
52.5°	3050.9	3074.0	3178.3	3300.0	3466.8	3514.1	3360.2	3353.4	3364.6	3440.8	3347.0
55°	3131.9	3156.9	3270.5	3492.1	3758.4	3842.0	3713.6	3707.2	3714.2	3811.2	3732.8
57.5°	3150.8	3156.9	3321.7	3621.4	4004.6	4205.3	4146.1	4133.3	4098.7	4183.2	4158.6
60°	3062.1	3086.4	3279.5	3666.8	4195.1	4563.6	4598.1	4582.1	4485.1	4554.3	4534.4
62.5°	2882.2	2925.7	3121.7	3597.7	4269.7	4856.2	5041.5	5022.3	4855.2	4900.0	4804.6
65°	2588.3	2606.9	2812.7	3359.2	4174.9	5043.4	5436.9	5427.3	5217.0	5146.8	4854.6
67.5°	2062.6	2097.5	2272.3	2860.7	3787.2	5021.3	5742.6	5741.7	5453.2	5238.4	4677.5
69°	1629.5	1665.7	1832.1	2356.5	3351.2	4819.3	5793.8	5805.0	5519.8	5182.7	4424.6
70°	1299.1	1341.1	1455.3	1984.8	2964.1	4553.0	5751.3	5771.4	5507.0	5090.8	4191.2
72.5°	552.9	586.8	668.1	1023.2	1806.5	3399.9	5258.6	5334.8	5210.2	4659.3	3463.9
75°	241.4	251.9	288.8	417.1	801.9	1850.4	4119.5	4260.4	4455.0	3938.3	2580.3
77.5°	176.7	181.2	201.4	244.9	359.8	698.9	2649.1	2731.1	3212.9	2865.9	1582.8
80°	136.7	139.9	155.6	179.9	235.0	282.7	1208.2	1278.6	1806.5	1472.0	659.2
82.5°	108.8	111.1	122.0	132.5	162.3	171.3	401.1	445.0	666.8	406.6	174.5
85°	101.2	103.7	107.6	96.7	104.0	100.5	173.5	181.5	201.4	159.7	73.0
87.5°	45.8	54.1	106.6	75.2	55.4	44.2	71.1	74.3	83.6	83.9	32.3
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: P318556

CATALOG NUMBER: GAN-SA2B-830-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1214.9	1214.9	1214.9	1214.9	1214.9	1214.9	1214.9	1214.9	1214.9	1214.9	1214.9
2.5°	1217.8	1216.8	1218.4	1214.6	1219.4	1219.1	1217.5	1218.1	1221.3	1221.0	1221.3
5°	1225.2	1224.5	1226.4	1223.6	1229.3	1231.2	1231.6	1234.4	1238.0	1238.9	1238.9
7.5°	1243.7	1243.7	1244.7	1240.9	1244.7	1244.4	1242.8	1245.7	1249.2	1249.5	1249.2
10°	1275.7	1276.1	1274.5	1264.5	1261.3	1252.7	1244.7	1245.0	1249.5	1253.0	1254.0
12.5°	1316.1	1314.8	1307.8	1289.5	1276.1	1258.5	1250.1	1249.8	1254.3	1257.2	1258.1
15°	1362.2	1358.7	1340.4	1310.6	1287.0	1269.7	1256.2	1253.0	1250.5	1247.3	1247.6
17.5°	1405.7	1397.7	1367.3	1326.0	1301.0	1278.0	1252.1	1231.2	1216.8	1208.5	1206.0
20°	1449.9	1434.2	1390.4	1340.4	1308.7	1266.8	1216.8	1174.6	1148.3	1136.2	1133.9
22.5°	1490.2	1464.9	1411.8	1355.5	1302.6	1229.0	1150.6	1089.1	1052.6	1036.3	1037.6
25°	1529.6	1494.4	1434.2	1366.0	1271.9	1162.4	1058.4	982.8	940.6	922.3	921.7
27.5°	1564.2	1524.2	1458.5	1357.4	1214.6	1067.7	949.2	875.6	840.4	824.7	822.1
30°	1603.9	1561.6	1490.9	1324.4	1130.7	958.2	842.6	790.7	765.8	750.1	747.2
32.5°	1652.2	1612.5	1517.4	1264.5	1023.5	843.9	759.4	723.2	700.5	682.9	679.7
35°	1722.7	1679.8	1524.2	1178.7	905.7	753.6	698.2	661.1	630.3	607.6	605.4
37.5°	1811.0	1764.0	1508.8	1067.7	791.4	695.0	647.3	601.5	561.5	529.5	524.4
40°	1938.4	1867.4	1466.2	939.6	707.2	649.9	597.7	545.5	495.9	458.4	451.1
42.5°	2091.5	1988.7	1400.9	812.2	645.4	604.1	548.4	483.7	436.3	409.8	405.9
45°	2286.1	2114.8	1310.3	700.8	584.6	558.3	495.3	435.7	406.3	386.7	383.5
47.5°	2508.3	2256.3	1215.2	610.2	533.0	515.4	452.7	414.3	390.9	375.5	372.6
50°	2781.4	2416.1	1114.4	535.9	481.2	463.9	432.5	402.4	383.8	372.0	369.1
52.5°	3089.3	2596.3	1041.7	477.3	438.3	425.8	421.9	396.0	381.0	372.0	369.1
55°	3421.0	2779.7	963.3	428.0	401.1	404.7	414.9	396.6	386.4	375.5	371.4
57.5°	3753.0	2969.3	875.9	386.4	371.7	389.0	410.1	397.9	389.3	378.7	374.9
60°	4015.5	3089.3	740.5	351.5	348.3	371.7	398.6	388.3	377.1	377.4	376.8
62.5°	4138.1	3082.9	591.0	320.5	324.9	348.3	380.0	373.3	364.0	376.5	377.4
65°	4069.3	2929.3	460.0	292.3	300.0	324.0	360.8	365.9	369.1	393.1	396.3
67.5°	3780.5	2630.2	356.3	267.6	277.2	307.3	362.7	398.6	402.7	428.0	427.7
69°	3481.8	2349.8	309.6	254.8	266.0	311.5	387.7	419.4	403.7	430.6	426.7
70°	3231.5	2128.0	284.6	246.2	260.9	318.9	404.3	419.1	398.9	421.9	415.5
72.5°	2488.7	1530.9	241.4	230.2	243.6	305.1	409.1	409.8	387.7	392.2	381.3
75°	1707.0	967.5	210.7	208.4	217.4	275.0	393.8	391.5	358.6	352.2	343.2
77.5°	941.2	491.4	179.0	187.6	193.7	243.6	357.9	354.7	327.5	314.1	310.9
80°	363.0	215.1	151.1	166.8	170.6	211.0	313.7	310.9	288.1	270.8	266.0
82.5°	137.0	112.7	124.9	144.4	143.1	174.2	265.7	264.1	242.0	216.7	209.0
85°	63.4	67.5	98.9	119.1	109.8	129.0	212.6	215.5	188.6	158.5	158.5
87.5°	26.9	37.8	70.1	90.0	74.0	87.1	155.9	148.9	136.7	94.8	89.0
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)