

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: P317348

Luminaire Tested: **GAN-SA4A-727-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317348
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-727-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16379 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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

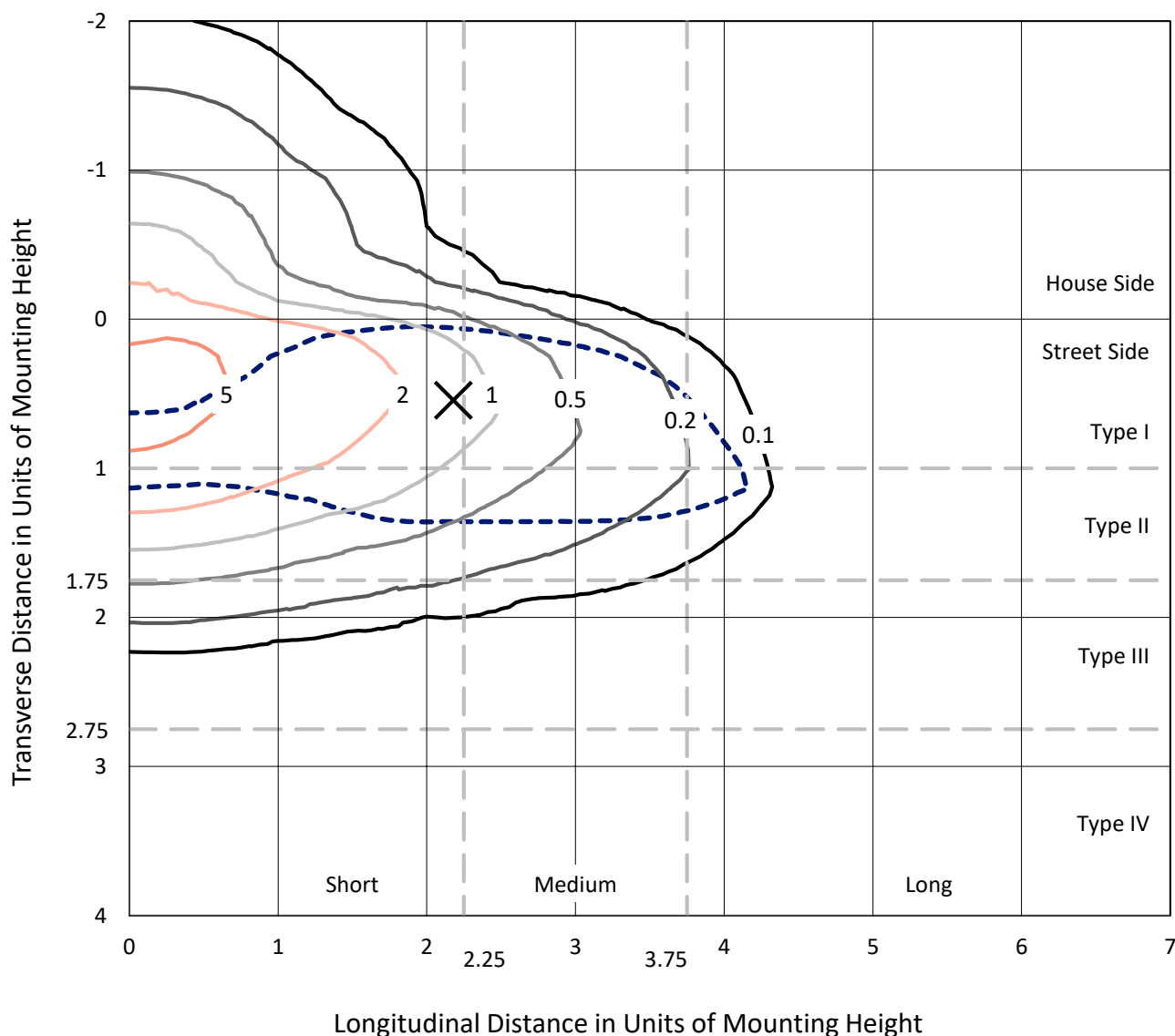


REPORT NUMBER: P317348
 CATALOG NUMBER: GAN-SA4A-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

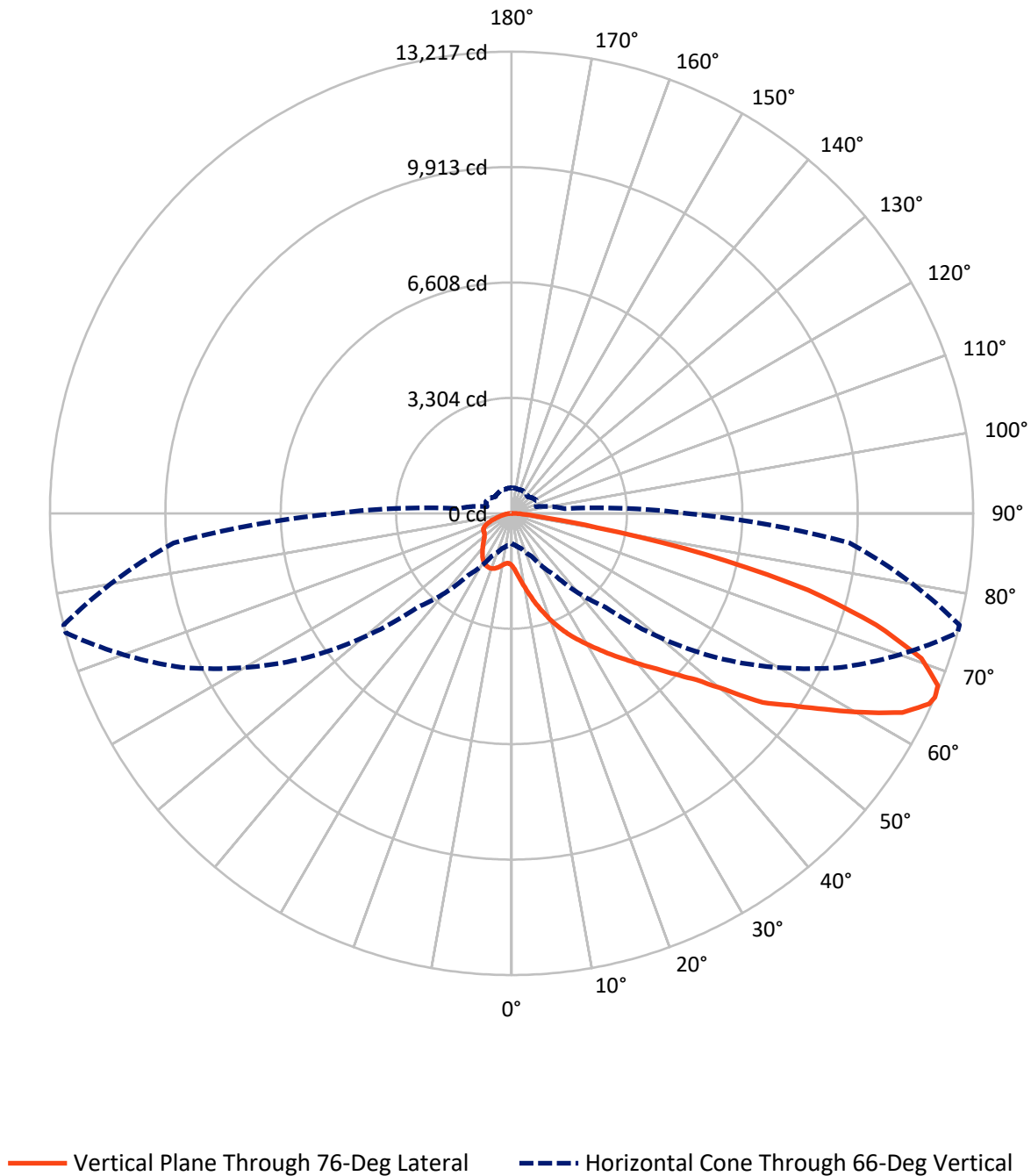
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

REPORT NUMBER: P317348
CATALOG NUMBER: GAN-SA4A-727-U-T2R

Luminous Intensity Polar Plot



REPORT NUMBER: P317348

CATALOG NUMBER: GAN-SA4A-727-U-T2R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2756.0	0.0	2756.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	13623.0	0.0	13623.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	16379.0	0.0	16379.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	180.9	1.1
10°-20°	714.3	4.4
20°-30°	1388.0	8.5
30°-40°	2265.6	13.8
40°-50°	3095.3	18.9
50°-60°	3605.4	22.0
60°-70°	3232.3	19.7
70°-80°	1633.5	10.0
80°-90°	263.8	1.6
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°	16379.0	100.0
0°-180°	16379.0	100.0

Coefficient of Utilization



REPORT NUMBER: P317348

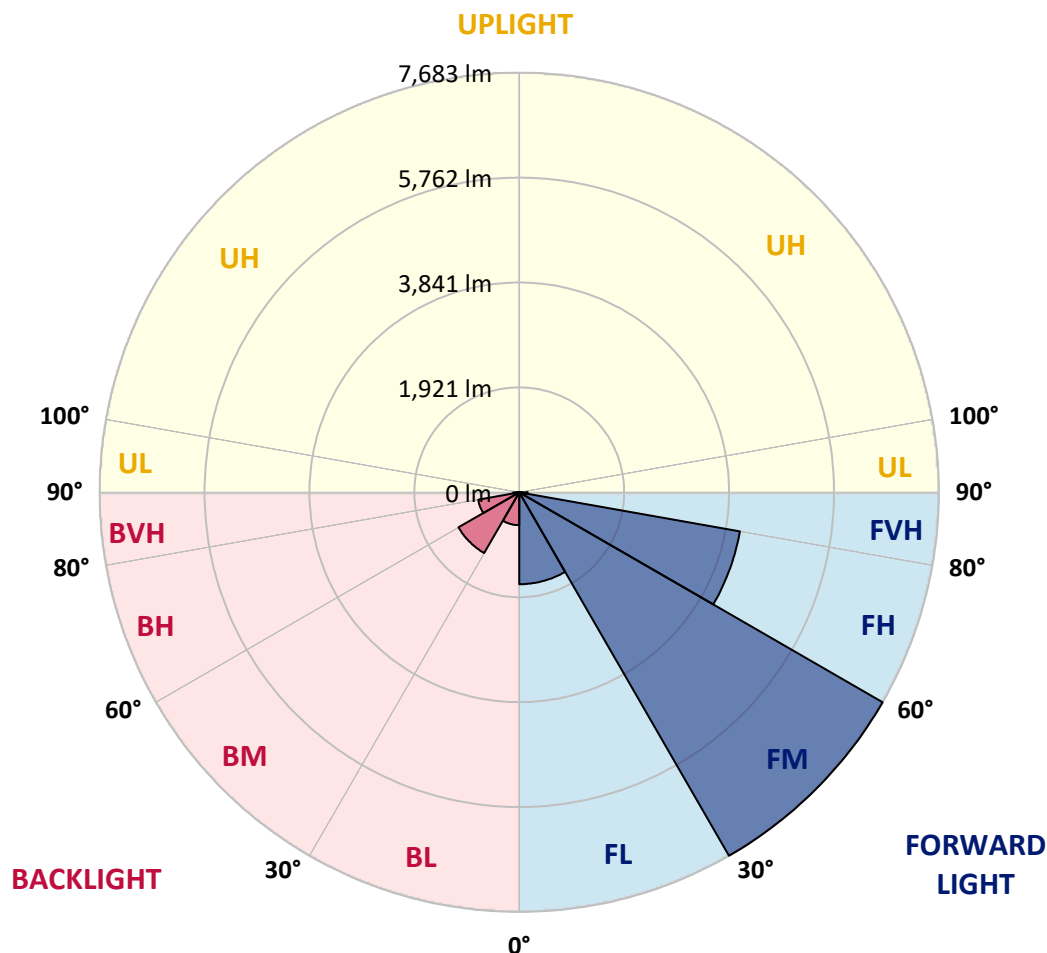
CATALOG NUMBER: GAN-SA4A-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1682.1	10.3			
FM	(30°-60°)	7682.9	46.9			
FH	(60°-80°)	4102.2	25.0			G2/5000
FVH	(80°-90°)	155.8	1.0			G2/225
BL	(0°-30°)	601.1	3.7	B2/1000		
BM	(30°-60°)	1283.4	7.8	B2/2500		
BH	(60°-80°)	763.5	4.7	B2/1000		G2/1000
BVH	(80°-90°)	108.0	0.7			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



REPORT NUMBER: P317348

CATALOG NUMBER: GAN-SA4A-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8
2.5°	1985.7	1955.6	1952.8	1908.9	1898.9	1814.9	1753.2	1688.7	1615.3	1600.9	1543.0
5°	2550.6	2547.8	2509.4	2437.7	2381.6	2238.1	2096.3	1946.2	1781.6	1754.9	1624.8
7.5°	3058.8	3054.4	3024.9	2947.6	2866.4	2690.2	2487.8	2257.6	1990.7	1951.2	1735.4
10°	3444.7	3443.1	3433.0	3376.3	3307.4	3138.3	2914.8	2600.6	2233.6	2179.7	1873.9
12.5°	3742.8	3746.1	3752.8	3732.8	3700.0	3555.9	3326.8	2964.3	2492.8	2439.4	2027.9
15°	3944.6	3954.6	3989.1	4017.5	4034.7	3946.3	3724.4	3336.3	2783.0	2719.1	2198.6
17.5°	4046.4	4057.5	4117.0	4202.6	4281.6	4272.7	4096.4	3691.1	3061.6	2999.9	2382.1
20°	4134.2	4142.6	4209.3	4312.2	4451.7	4513.5	4414.5	4032.5	3366.9	3293.5	2576.7
22.5°	4388.9	4399.5	4419.5	4477.9	4601.3	4714.7	4666.9	4355.5	3646.6	3578.2	2761.3
25°	4880.4	4893.2	4849.9	4800.4	4823.7	4902.7	4911.6	4650.2	3930.2	3852.9	2959.8
27.5°	5472.6	5491.0	5417.0	5289.7	5178.5	5147.9	5137.3	4891.6	4201.0	4111.4	3156.1
30°	6052.6	6084.3	5988.1	5822.9	5618.9	5475.4	5369.2	5127.9	4467.9	4382.2	3341.3
32.5°	6619.2	6606.4	6466.9	6305.6	6066.5	5886.9	5630.0	5381.4	4768.1	4669.7	3525.4
35°	7007.3	7011.8	6882.2	6690.9	6463.0	6325.1	5979.2	5655.0	5074.5	4983.9	3734.4
37.5°	7337.6	7317.1	7170.3	6991.8	6795.5	6736.5	6387.9	5956.4	5406.5	5307.5	3956.8
40°	7447.7	7423.8	7327.6	7199.2	7041.8	7036.8	6838.8	6297.8	5781.8	5683.9	4207.6
42.5°	7381.0	7350.4	7310.9	7275.9	7227.5	7249.8	7262.6	6698.2	6194.4	6084.8	4497.9
45°	7134.7	7088.5	7116.3	7192.5	7297.6	7423.3	7645.1	7141.3	6656.5	6564.7	4838.7
47.5°	6756.0	6714.3	6801.0	6964.0	7249.8	7567.8	8007.1	7630.7	7208.1	7116.9	5324.2
50°	6223.3	6235.5	6359.5	6655.9	7088.0	7634.6	8453.1	8278.5	8009.9	7924.8	5986.4
52.5°	5349.2	5351.4	5700.6	6187.2	6801.0	7600.1	8700.5	9106.4	9104.7	9001.9	6617.0
55°	4537.4	4586.8	4863.2	5509.9	6336.2	7462.2	8873.4	9509.0	9823.7	9703.1	7204.7
57.5°	3744.4	3773.3	4035.2	4684.7	5672.8	7094.6	9050.8	9992.2	10652.2	10576.1	7935.4
60°	2842.5	2887.0	3157.8	3757.8	4824.3	6442.4	9067.5	10496.5	11642.6	11565.8	8751.1
62.5°	1845.0	1921.7	2175.3	2737.4	3797.8	5504.3	8680.5	10826.3	12581.2	12553.9	9475.1
65°	1060.4	1118.2	1294.5	1728.2	2620.1	4326.6	7760.2	10699.5	13158.9	13143.3	9745.9
66°	866.3	902.5	1037.6	1350.6	2161.9	3799.5	7225.3	10432.0	13216.2	13216.7	9714.7
67.5°	692.8	709.0	769.6	967.0	1595.3	3011.6	6269.5	9842.1	13145.0	13164.5	9514.0
70°	573.3	581.6	600.5	648.4	870.8	1816.1	4450.1	8309.0	12430.5	12445.5	8730.5
72.5°	514.3	519.3	526.6	533.3	614.4	1014.8	2718.0	6647.0	10898.6	10918.0	7536.7
75°	466.0	468.7	467.6	468.2	515.5	646.7	1404.6	4962.7	8812.3	8773.3	5773.5
77.5°	409.3	412.0	406.5	407.6	456.0	497.1	699.0	3474.2	5946.9	5672.3	3252.9
80°	345.9	348.1	345.9	349.8	397.0	375.3	406.5	1954.5	2629.6	2487.2	1156.6
82.5°	261.3	270.8	277.5	293.0	327.0	266.9	271.9	761.2	800.7	762.3	354.8
85°	114.5	139.6	209.1	224.1	245.8	160.1	178.5	310.3	325.8	315.8	129.0
87.5°	30.0	32.8	103.4	130.1	136.2	72.3	92.9	141.2	149.0	141.2	42.8
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: P317348

CATALOG NUMBER: GAN-SA4A-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8	1495.8
2.5°	1512.5	1485.2	1436.3	1392.9	1360.1	1337.9	1315.6	1304.5	1297.8	1291.1	1292.3
5°	1560.8	1505.8	1421.8	1362.3	1329.0	1307.8	1296.7	1292.3	1289.5	1282.8	1282.8
7.5°	1633.7	1555.8	1440.2	1379.0	1352.9	1336.7	1330.1	1327.8	1324.5	1316.7	1317.8
10°	1725.4	1616.4	1478.5	1419.0	1395.1	1377.3	1367.9	1364.5	1358.4	1349.5	1350.6
12.5°	1833.3	1691.5	1529.1	1466.9	1437.9	1414.0	1398.5	1389.0	1378.4	1366.8	1367.3
15°	1951.2	1773.2	1583.6	1509.7	1470.2	1436.8	1411.8	1395.7	1379.0	1364.5	1364.0
17.5°	2070.7	1852.2	1625.3	1533.0	1479.6	1435.7	1401.8	1376.8	1356.2	1338.4	1336.7
20°	2199.7	1923.4	1648.7	1530.8	1461.9	1409.6	1364.5	1333.4	1310.6	1292.8	1290.0
22.5°	2331.0	1990.1	1652.6	1508.0	1422.4	1358.4	1311.2	1276.7	1253.3	1235.0	1228.3
25°	2451.1	2041.8	1636.5	1464.1	1367.3	1298.4	1252.2	1217.2	1198.3	1176.6	1169.9
27.5°	2560.6	2078.0	1604.2	1407.9	1305.6	1237.8	1194.4	1164.4	1143.8	1127.1	1121.6
30°	2659.0	2097.4	1551.4	1341.2	1242.2	1180.5	1143.8	1123.2	1105.4	1084.3	1080.4
32.5°	2752.4	2097.4	1483.5	1268.3	1179.4	1129.9	1108.2	1095.4	1075.4	1054.8	1049.3
35°	2845.9	2084.6	1403.5	1192.2	1121.6	1093.7	1092.6	1077.6	1047.0	1019.2	1012.0
37.5°	2944.3	2058.5	1313.4	1121.0	1074.3	1077.6	1087.1	1053.7	1010.3	970.9	960.3
40°	3055.5	2022.4	1220.0	1059.3	1034.8	1070.4	1072.1	1019.2	934.7	898.6	889.1
42.5°	3186.2	1986.2	1133.2	1004.8	1003.7	1048.7	1043.7	944.7	894.1	875.8	870.8
45°	3358.0	1965.6	1050.9	953.1	979.2	1013.7	995.3	903.6	882.4	871.9	867.4
47.5°	3628.8	1976.2	975.3	911.9	954.7	978.6	905.2	886.9	871.9	859.1	854.6
50°	3968.0	1970.1	914.1	883.6	926.9	941.9	864.7	865.2	857.4	843.0	836.3
52.5°	4223.2	1922.3	874.7	867.4	902.5	876.9	839.1	844.1	840.2	819.1	811.8
55°	4469.5	1881.1	854.6	861.3	884.7	795.7	809.1	821.3	817.4	796.8	793.5
57.5°	4775.9	1873.3	842.4	863.0	869.7	755.1	780.1	796.3	793.5	784.6	782.9
60°	5151.2	1875.6	831.3	865.8	853.0	725.1	752.9	773.5	775.1	773.5	772.4
62.5°	5357.5	1814.9	803.5	858.0	823.5	699.0	724.5	754.6	755.1	758.5	757.9
65°	5182.4	1633.7	751.8	830.7	774.0	677.3	700.1	732.9	724.5	739.5	739.5
66°	5012.2	1529.1	726.2	812.9	752.9	668.9	692.3	721.8	711.2	731.8	731.8
67.5°	4664.7	1352.9	680.0	775.1	722.9	657.3	683.4	703.4	688.9	719.5	717.3
70°	4029.7	1046.5	587.2	689.5	673.4	640.0	671.2	666.7	645.6	692.3	683.4
72.5°	3397.5	795.2	471.5	577.2	598.3	618.3	653.9	620.0	593.3	626.1	606.6
75°	2636.2	597.8	372.6	448.7	505.4	584.4	633.3	566.1	527.7	524.4	513.8
77.5°	1425.2	410.4	295.3	342.5	401.5	542.1	619.4	508.2	450.4	437.1	428.7
80°	564.4	266.9	214.6	259.7	280.8	481.0	586.1	440.9	371.4	358.1	345.3
82.5°	233.0	157.9	138.5	174.0	182.9	411.5	526.0	361.4	286.9	397.0	421.5
85°	100.1	86.7	82.3	90.1	103.4	288.6	418.7	275.8	309.7	276.4	219.6
87.5°	30.0	36.7	35.0	34.5	37.8	69.0	223.0	153.5	227.4	86.2	64.5
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)