

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: P320869

Luminaire Tested: **GAN-SA5A-727-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320869
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-727-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19982 lumens
Efficiency: N/A
Efficacy: 123.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 162
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

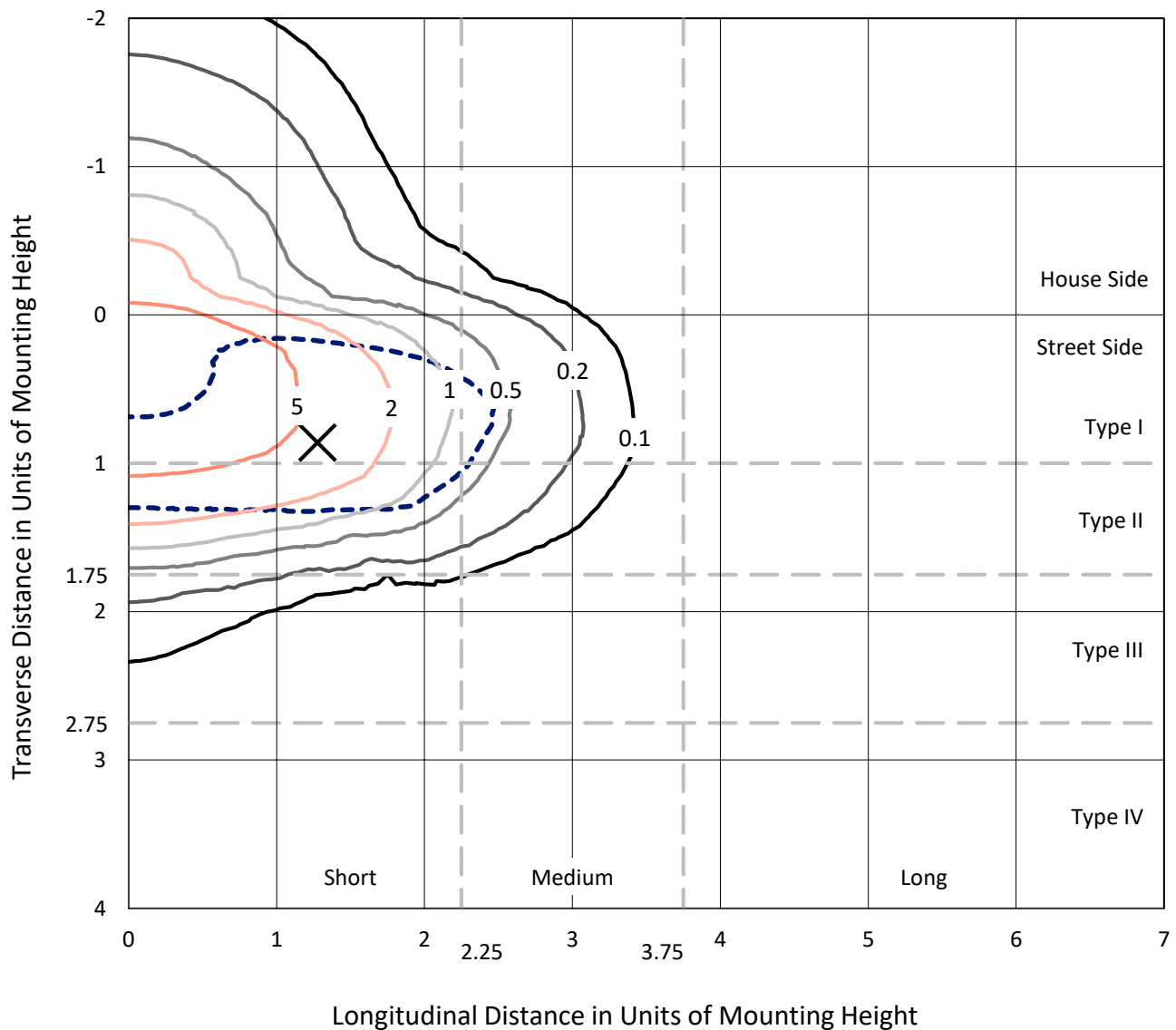


REPORT NUMBER: P320869

CATALOG NUMBER: GAN-SA5A-727-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

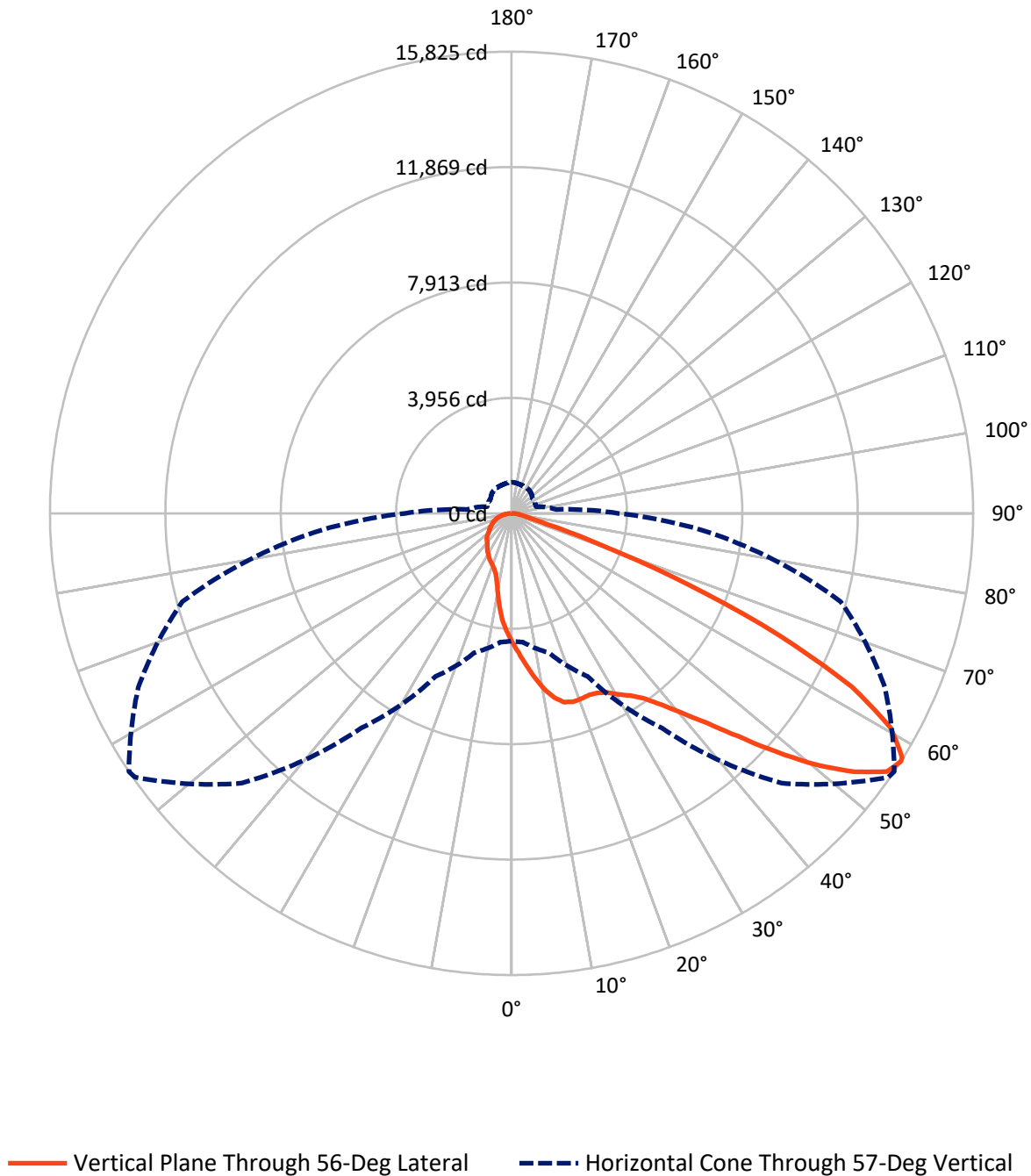
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
Type II - Short - N/A

REPORT NUMBER: P320869
CATALOG NUMBER: GAN-SA5A-727-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P320869

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3444.5	0.0	3444.5
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	16537.5	0.0	16537.5
	% Fixture	82.8	0.0	82.8
Total	Lumens	19982.0	0.0	19982.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.4	2.1
10°-20°	1197.0	6.0
20°-30°	1949.6	9.8
30°-40°	2914.5	14.6
40°-50°	4420.6	22.1
50°-60°	4954.8	24.8
60°-70°	2926.5	14.6
70°-80°	958.8	4.8
80°-90°	236.9	1.2
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°	19982.0	100.0
0°-180°	19982.0	100.0

Coefficient of Utilization



REPORT NUMBER: P320869

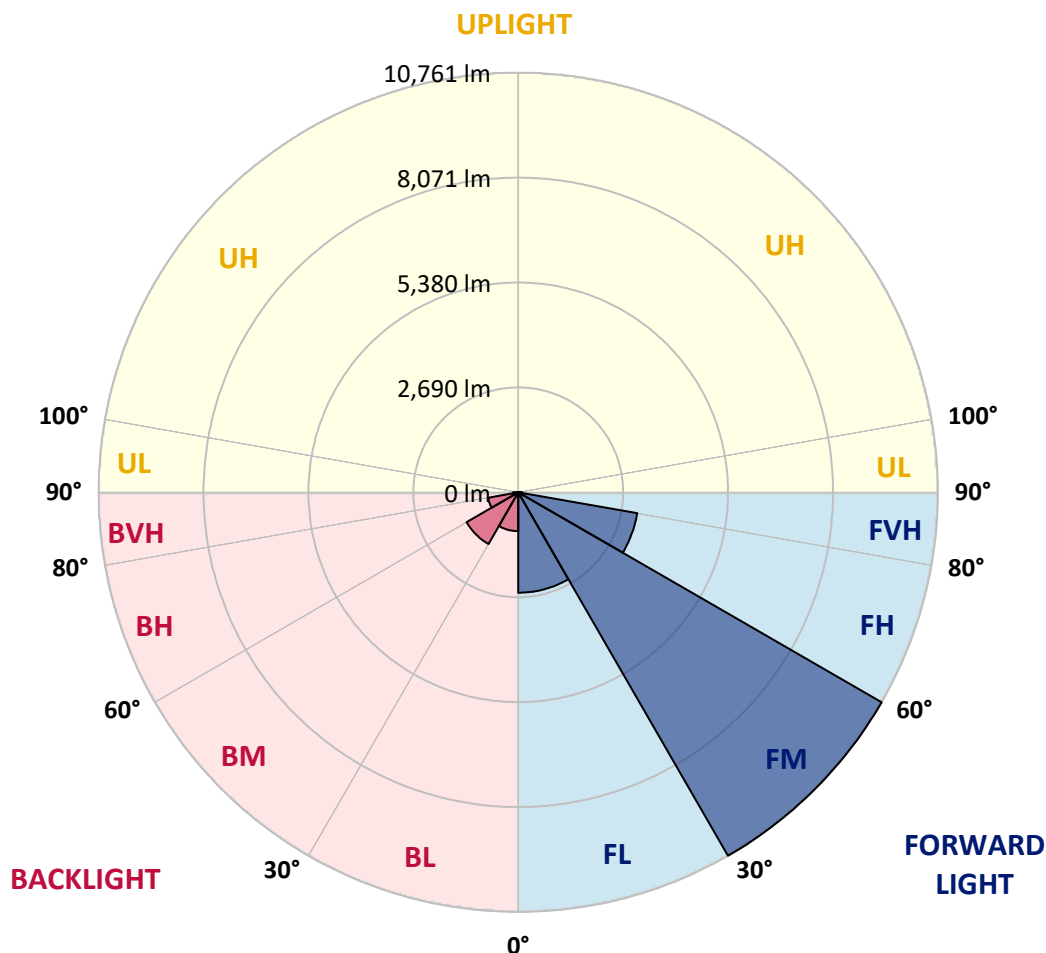
CATALOG NUMBER: GAN-SA5A-727-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2574.0	12.9			
FM	(30°-60°)	10761.0	53.9			
FH	(60°-80°)	3098.3	15.5			G2/5000
FVH	(80°-90°)	104.3	0.5			G2/225
BL	(0°-30°)	996.0	5.0	B2/1000		
BM	(30°-60°)	1528.9	7.7	B2/2500		
BH	(60°-80°)	787.0	3.9	B2/1000		G2/1000
BVH	(80°-90°)	132.6	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: P320869

CATALOG NUMBER: GAN-SA5A-727-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4432.0	4432.0	4432.0	4432.0	4432.0	4432.0	4432.0	4432.0	4432.0	4432.0	4432.0
2.5°	5089.2	5135.9	5115.3	5043.9	4988.9	4911.3	4824.8	4798.7	4707.4	4605.1	4482.2
5°	5894.7	5871.4	5837.7	5726.5	5609.0	5472.4	5255.4	5221.1	5017.8	4786.4	4541.9
7.5°	6353.4	6351.4	6331.5	6266.2	6159.1	5980.6	5718.9	5678.4	5371.4	4999.2	4620.2
10°	6286.8	6282.0	6315.0	6383.0	6415.2	6378.2	6157.7	6117.2	5740.2	5234.8	4710.8
12.5°	5908.5	5911.2	5964.1	6106.9	6301.3	6534.7	6499.0	6479.1	6122.7	5501.2	4820.7
15°	5613.9	5620.0	5661.9	5786.2	6015.6	6439.3	6706.4	6713.3	6492.8	5795.1	4949.1
17.5°	5484.8	5497.8	5517.0	5604.2	5814.4	6249.1	6755.9	6792.9	6817.0	6100.0	5072.7
20°	5526.0	5538.3	5543.8	5599.4	5771.8	6133.7	6721.5	6788.1	7065.6	6387.1	5196.3
22.5°	5710.7	5718.2	5721.7	5736.1	5870.0	6166.7	6698.9	6768.9	7245.5	6644.6	5289.7
25°	6017.0	6011.5	5989.5	5970.9	6060.9	6297.1	6751.0	6817.7	7391.7	6878.1	5350.8
27.5°	6383.7	6376.8	6334.2	6283.4	6334.9	6500.4	6901.4	6954.3	7522.9	7096.5	5381.7
30°	6823.8	6806.0	6725.6	6665.2	6685.1	6805.3	7149.3	7197.4	7725.5	7344.4	5412.0
32.5°	7332.7	7313.5	7197.4	7097.1	7097.1	7197.4	7404.8	7444.6	7897.2	7624.5	5460.7
35°	7970.0	7945.9	7794.8	7626.6	7579.2	7630.0	7753.0	7781.1	8206.2	7977.5	5549.3
37.5°	8721.2	8688.9	8493.2	8268.0	8164.3	8161.5	8250.1	8307.8	8699.9	8441.0	5699.7
40°	9474.5	9451.9	9280.9	9103.7	8900.4	8835.2	8971.9	8989.7	9345.4	9016.5	5892.0
42.5°	10056.9	10052.7	10021.2	10044.5	9836.4	9704.6	9811.7	9826.1	10133.8	9639.3	6096.6
45°	10364.5	10371.4	10524.5	10863.8	10940.7	10844.5	10897.4	10901.5	11034.7	10267.7	6284.1
47.5°	10118.0	10153.7	10541.0	11299.8	11929.5	12248.8	12160.9	12211.8	11908.2	10807.4	6431.0
50°	9157.3	9201.2	9860.5	11105.5	12391.0	13607.8	13561.8	13550.2	12612.8	11203.0	6510.7
52.5°	7967.2	8001.5	8545.4	10095.3	12052.4	14359.1	14781.4	14721.0	13239.1	11499.0	6525.8
55°	6155.0	6208.5	6729.8	8079.1	10683.1	14072.1	15678.3	15624.0	13809.7	11654.2	6507.9
57°	4375.7	4432.0	4949.8	6166.0	8987.0	13078.4	15767.5	15825.2	14118.1	11680.2	6527.9
57.5°	3904.6	3962.3	4475.3	5656.4	8458.2	12719.2	15690.6	15786.8	14173.7	11676.1	6538.9
60°	1966.1	1988.0	2314.9	3157.5	5346.7	10282.8	14687.4	14935.3	14223.8	11474.2	6586.2
62.5°	1222.3	1206.5	1196.2	1454.5	2601.3	6819.0	12616.9	13094.2	13264.5	10985.3	6471.6
65°	1074.7	1045.2	931.9	911.3	1148.9	3312.0	9501.3	10095.3	11214.7	10214.8	6198.2
67.5°	1009.5	980.6	852.9	776.0	776.7	1313.0	5898.8	6567.7	8736.3	8912.1	5553.4
70°	942.2	916.1	796.6	705.9	661.3	727.2	2713.9	3221.4	5694.9	7005.1	4641.5
72.5°	855.6	837.8	724.5	631.1	583.7	544.6	1039.0	1227.2	3296.9	4704.6	3223.4
75°	765.0	748.5	651.7	562.4	504.7	428.5	585.1	630.4	1674.9	2406.9	1587.0
77.5°	665.4	655.8	579.6	497.2	451.2	355.0	414.1	436.1	718.3	1032.1	795.9
80°	529.5	548.0	506.8	442.9	400.4	284.3	293.2	307.6	418.2	504.0	451.9
82.5°	344.7	377.0	396.9	359.8	329.6	223.9	210.8	217.0	272.6	307.6	196.4
85°	143.5	161.4	260.9	235.5	219.1	163.4	141.5	144.2	168.9	175.1	80.3
87.5°	63.9	68.0	114.7	107.8	92.7	56.3	60.4	65.9	90.0	85.2	30.9
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: P320869

CATALOG NUMBER: GAN-SA5A-727-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4432.0	4432.0	4432.0	4432.0	4432.0	4432.0	4432.0	4432.0	4432.0	4432.0	4432.0
2.5°	4436.1	4378.5	4279.6	4170.4	4081.1	4009.7	3937.6	3888.2	3830.5	3799.6	3783.8
5°	4439.6	4326.3	4118.2	3904.6	3713.7	3539.3	3373.1	3245.4	3125.9	3061.4	3043.5
7.5°	4454.0	4283.7	3947.2	3595.6	3256.4	2946.7	2707.7	2558.0	2450.2	2402.1	2388.4
10°	4465.7	4233.6	3735.7	3215.2	2753.7	2439.9	2254.5	2170.7	2133.6	2127.4	2121.2
12.5°	4493.1	4182.1	3513.2	2818.3	2363.0	2146.0	2081.4	2075.9	2086.2	2101.3	2101.3
15°	4536.4	4131.2	3259.1	2477.6	2114.4	2038.2	2051.2	2081.4	2109.6	2132.9	2136.4
17.5°	4568.0	4068.8	2985.8	2205.0	1981.8	2002.4	2049.1	2091.7	2120.6	2143.2	2145.3
20°	4590.7	3971.9	2694.0	1997.0	1905.6	1969.5	2027.9	2065.6	2085.5	2108.2	2111.6
22.5°	4579.0	3842.1	2435.1	1847.9	1843.8	1921.4	1977.0	2022.4	2007.3	1985.3	1999.7
25°	4522.7	3663.6	2168.6	1736.7	1778.6	1856.9	1925.5	1895.3	1844.5	1834.9	1840.4
27.5°	4422.4	3435.6	1922.1	1633.7	1703.0	1797.1	1793.0	1762.8	1744.9	1732.6	1740.1
30°	4314.6	3188.4	1706.5	1543.7	1619.3	1696.9	1681.1	1680.4	1662.5	1642.6	1652.2
32.5°	4208.2	2939.8	1535.5	1469.6	1556.1	1566.4	1600.7	1611.0	1576.0	1534.1	1531.4
35°	4115.5	2705.0	1405.7	1402.3	1479.9	1481.2	1531.4	1516.9	1429.7	1386.5	1386.5
37.5°	4046.1	2470.8	1306.8	1341.8	1379.6	1415.3	1440.7	1381.0	1366.6	1342.5	1341.8
40°	4015.9	2264.8	1245.0	1295.8	1308.9	1354.2	1289.0	1312.3	1319.2	1306.8	1306.8
42.5°	3984.3	2085.5	1191.4	1260.8	1258.7	1252.6	1219.6	1249.8	1277.3	1278.0	1275.9
45°	3952.7	1931.0	1144.1	1185.9	1214.8	1148.2	1154.4	1186.6	1225.1	1238.8	1238.8
47.5°	3917.7	1808.8	1100.8	1107.0	1151.6	1107.0	1102.2	1126.9	1172.2	1194.2	1199.0
50°	3840.8	1698.9	1051.4	1037.6	1050.0	1065.1	1069.2	1080.9	1131.0	1166.0	1174.3
52.5°	3734.3	1600.7	988.2	973.8	973.8	1030.8	1050.0	1053.4	1096.0	1137.9	1146.1
55°	3645.7	1538.2	922.9	920.2	917.4	994.4	1027.3	1032.8	1062.3	1095.3	1099.4
57°	3651.9	1533.4	872.8	875.6	874.9	957.3	1006.0	1017.7	1032.8	1061.0	1065.8
57.5°	3655.4	1536.9	861.8	863.2	862.5	947.0	999.8	1012.9	1024.6	1054.1	1058.9
60°	3706.9	1545.8	817.2	802.1	805.5	892.0	964.8	981.3	988.9	1028.0	1034.2
62.5°	3630.6	1506.0	781.5	745.1	745.1	834.4	916.1	942.2	953.8	1006.7	1017.0
65°	3409.5	1394.0	739.6	680.5	687.4	776.7	857.7	900.3	918.1	984.1	995.0
67.5°	3068.2	1264.2	695.0	622.8	629.7	716.2	797.3	843.3	871.4	959.3	968.3
70°	2623.9	1105.6	634.5	561.7	570.0	650.3	725.9	778.0	819.9	936.0	938.7
72.5°	1934.5	906.5	550.1	494.4	503.4	573.4	653.7	714.2	770.5	877.6	876.2
75°	1150.2	708.7	456.7	426.4	432.6	497.9	588.5	662.0	746.5	855.0	868.0
77.5°	697.7	533.6	372.2	357.1	364.6	431.3	541.8	620.1	736.2	806.2	802.1
80°	421.6	381.1	297.3	287.7	295.3	368.8	501.3	588.5	643.4	688.8	688.8
82.5°	220.4	232.8	218.4	210.8	221.1	299.4	456.0	513.7	568.6	488.3	456.0
85°	90.0	121.5	132.5	131.8	138.0	207.4	393.5	439.5	366.7	348.2	356.4
87.5°	30.2	51.5	64.6	55.6	58.4	130.5	272.6	212.2	252.0	175.8	166.9
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)