

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: P383645

Luminaire Tested: **GAN-SA9B-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA9B-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 45222.9 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

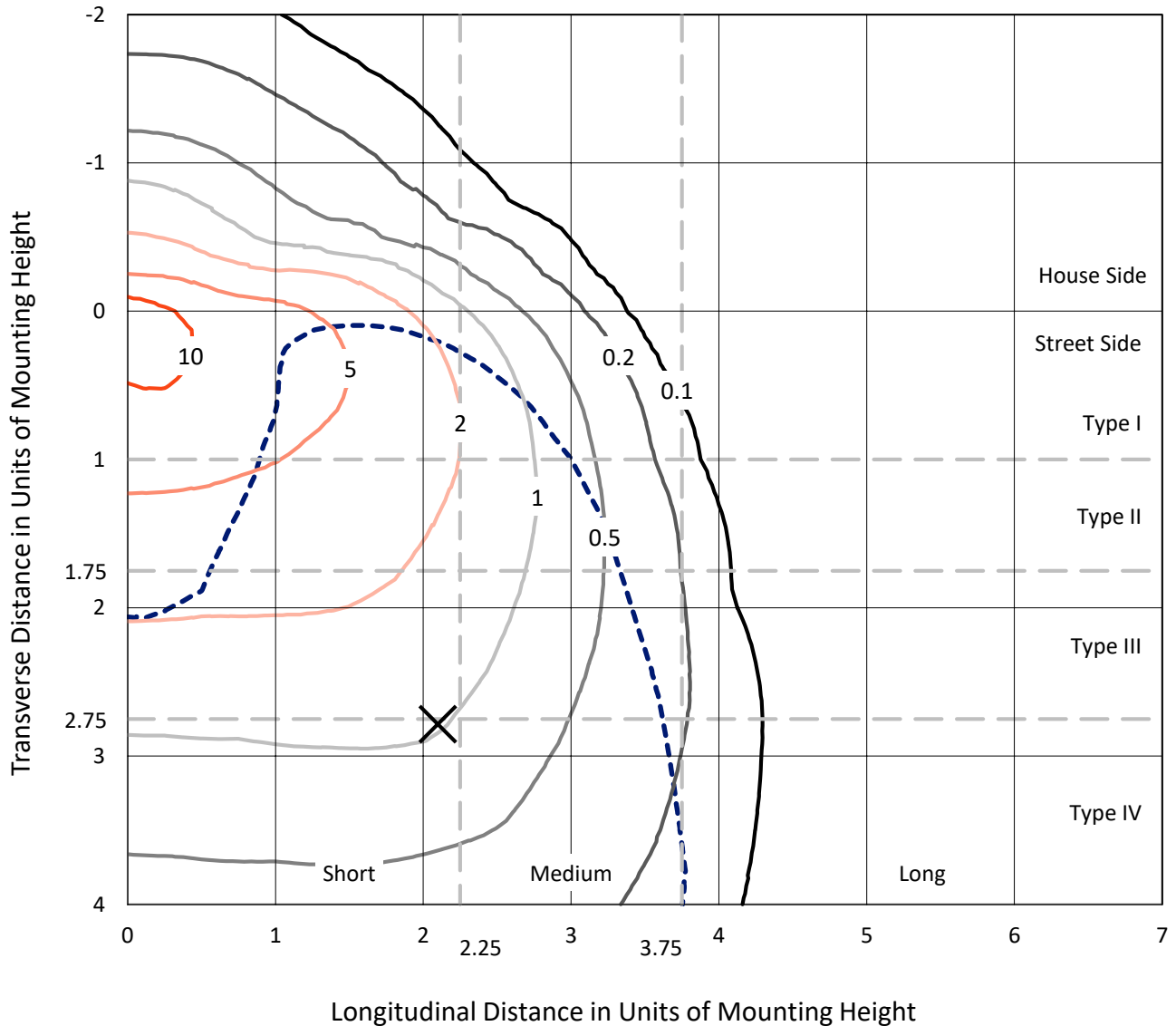
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

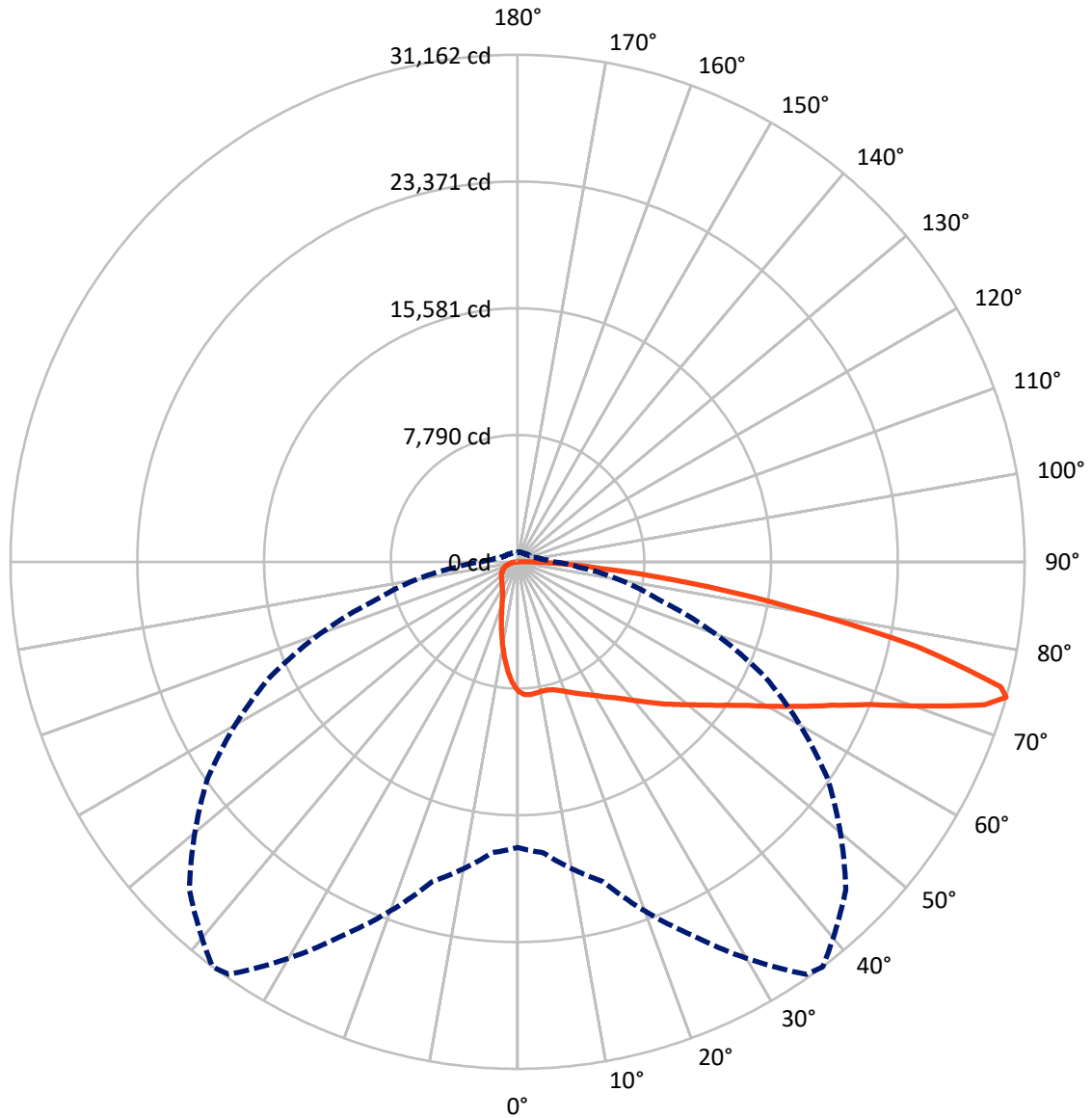
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6222.4	0.0	6222.4
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	39000.6	0.0	39000.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	45222.9	0.0	45222.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	701.7	1.6
10°-20°	1798.6	4.0
20°-30°	2771.3	6.1
30°-40°	4029.8	8.9
40°-50°	5931.3	13.1
50°-60°	8329.4	18.4
60°-70°	10542.4	23.3
70°-80°	9283.0	20.5
80°-90°	1835.4	4.1
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°	45222.9	100.0
0°-180°	45222.9	100.0

Coefficient of Utilization



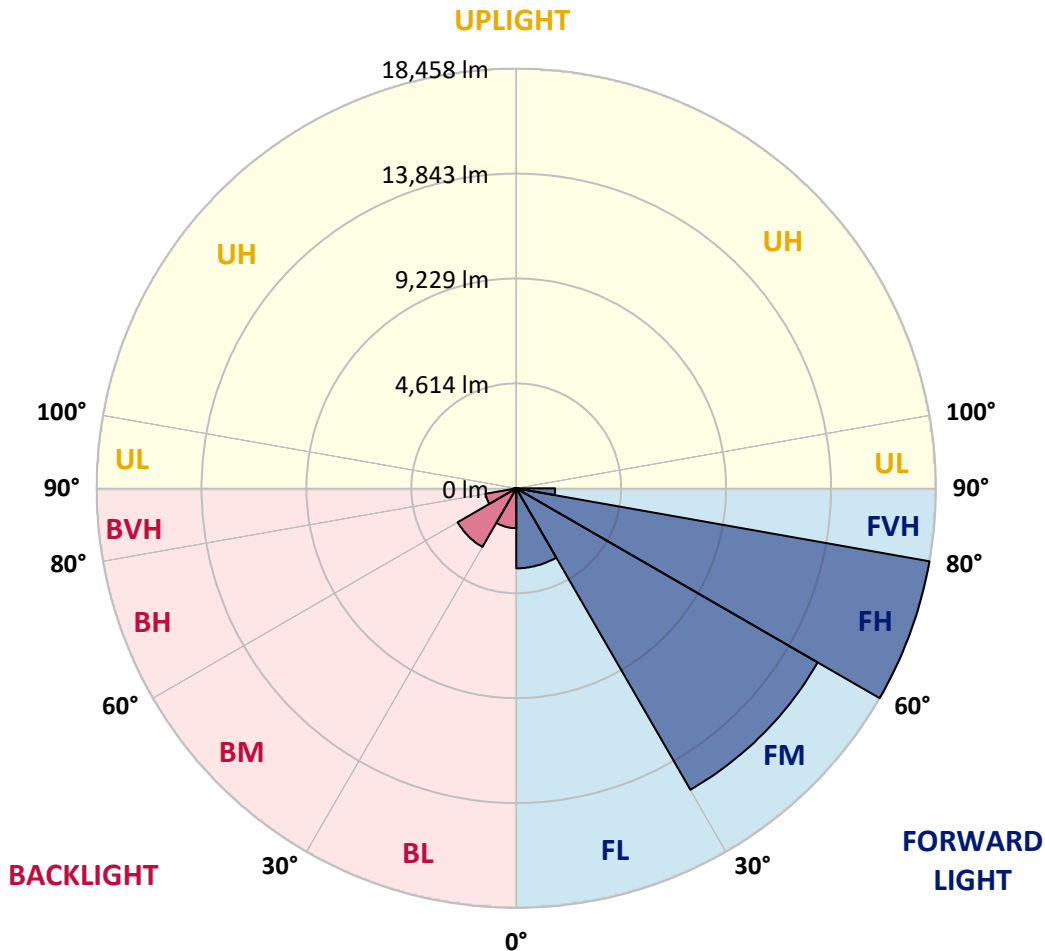
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3518.9	7.8			
FM (30°-60°)	15312.8	33.9			
FH (60°-80°)	18457.7	40.8			G5
FVH (80°-90°)	1711.2	3.8			G5
BL (0°-30°)	1752.7	3.9	B3/2500		
BM (30°-60°)	2977.6	6.6	B3/5000		
BH (60°-80°)	1367.7	3.0	B3/2500		G3/2500
BVH (80°-90°)	124.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	7968.1	7968.1	7968.1	7968.1	7968.1	7968.1	7968.1	7968.1	7968.1	7968.1	7968.1
2.5°	8240.5	8242.1	8240.5	8227.8	8197.5	8172.0	8151.3	8121.0	8054.2	8003.1	7926.7
5°	8318.5	8309.0	8302.6	8278.8	8231.0	8202.3	8162.4	8105.1	7995.2	7893.2	7769.0
7.5°	8281.9	8270.7	8256.4	8227.8	8173.6	8149.7	8093.9	8019.0	7886.9	7753.1	7574.6
10°	8168.8	8165.7	8159.2	8152.9	8106.7	8087.6	8036.6	7956.9	7826.3	7663.8	7455.2
12.5°	8043.0	8050.9	8076.4	8109.9	8089.2	8079.6	8047.7	7993.6	7859.7	7684.5	7432.8
15°	7963.3	7985.6	8054.2	8141.7	8159.2	8156.1	8148.2	8113.0	7971.3	7776.9	7483.9
17.5°	7936.2	7972.8	8103.5	8248.5	8299.4	8310.6	8313.8	8253.2	8095.5	7890.0	7536.4
20°	7985.6	8031.8	8223.0	8422.1	8503.4	8509.7	8495.3	8390.3	8213.5	7987.2	7565.1
22.5°	8135.4	8176.8	8415.7	8640.4	8732.7	8742.3	8699.3	8540.0	8337.6	8101.9	7604.9
25°	8423.7	8474.7	8713.6	8938.2	8986.0	8987.6	8925.5	8727.9	8500.2	8262.8	7691.0
27.5°	8799.7	8850.6	9065.6	9285.5	9260.0	9245.7	9161.2	8963.7	8712.0	8484.3	7843.8
30°	9218.6	9274.3	9478.2	9634.3	9573.8	9545.2	9476.6	9221.8	9006.8	8786.9	8078.0
32.5°	9651.9	9702.8	9881.3	9988.0	9911.6	9898.8	9795.2	9562.7	9390.7	9248.9	8457.1
35°	10096.3	10133.0	10308.2	10368.7	10266.8	10263.6	10234.9	10021.5	9913.2	9980.0	9008.3
37.5°	10550.3	10559.9	10709.6	10712.8	10682.5	10695.3	10725.6	10591.8	10622.0	10830.7	9725.2
40°	10954.9	10980.4	11088.8	11122.2	11174.8	11219.4	11370.7	11283.1	11517.3	11886.8	10617.2
42.5°	11254.4	11303.8	11477.4	11563.5	11734.0	11804.0	12017.4	12098.7	12570.2	13124.6	11678.2
45°	11507.7	11584.2	11863.0	12039.8	12328.1	12450.8	12756.6	13029.0	13760.2	14467.5	12794.8
47.5°	11781.7	11878.9	12227.8	12565.5	12957.4	13095.9	13651.8	14059.7	15029.8	15818.3	13847.8
50°	12184.7	12259.6	12600.5	13131.0	13620.0	13798.5	14567.8	15152.5	16320.2	17105.4	14760.6
52.5°	12747.0	12718.4	13006.7	13750.7	14406.9	14626.8	15545.9	16315.3	17628.0	18269.9	15531.6
55°	13312.6	13264.8	13467.1	14398.9	15324.5	15555.4	16622.8	17483.0	18872.0	19318.1	16122.6
57.5°	13941.8	13851.0	14021.5	15130.2	16369.5	16645.1	17828.7	18723.9	20095.4	20165.6	16498.5
60°	14590.2	14467.5	14658.6	16036.6	17696.4	18021.4	19240.1	19934.6	21248.8	20844.2	16619.6
62.5°	15157.2	15071.2	15365.9	17048.1	19192.3	19549.1	20626.0	21221.7	22386.2	21126.1	16183.1
65°	15652.6	15667.0	16176.8	18185.5	20860.1	21240.9	22215.7	22808.3	23281.4	20958.9	15162.1
67.5°	16243.7	16324.9	17194.7	19682.9	22959.7	23377.0	24528.8	24538.3	23781.7	19977.6	13151.7
70°	17105.4	17272.8	18594.9	21760.1	25944.9	26518.4	27407.2	25554.7	23079.2	17317.3	10348.0
72.5°	17870.1	18182.3	20084.4	24136.9	29583.3	30018.2	29091.0	24968.5	20143.2	12978.0	6446.8
74°	17559.5	17946.5	20355.2	25307.7	30953.3	31161.9	28522.4	23257.6	16794.8	8987.6	3746.7
75°	16890.4	17310.9	19960.1	25296.5	30779.6	30663.3	27149.2	21303.0	13831.9	6129.8	2493.0
77.5°	13631.1	14075.6	16818.7	21680.5	25237.7	25127.8	20855.3	14290.7	6058.1	2010.4	1266.4
80°	7925.0	8264.4	10440.4	13768.2	17017.9	17217.0	13715.5	7071.3	2383.1	1129.4	858.6
82.5°	3520.5	3754.7	5043.4	7028.2	10269.9	10526.4	7182.8	3705.3	1471.9	686.6	516.2
85°	2309.9	2483.5	3061.7	3346.9	4890.4	5065.7	3515.8	2884.9	971.7	377.6	379.1
87.5°	1661.5	1828.7	2274.7	1986.4	2244.5	2125.0	1913.2	2669.8	390.3	215.1	127.4
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°	7968.1	7968.1	7968.1	7968.1	7968.1	7968.1	7968.1	7968.1	7968.1	7968.1	7968.1
2.5°	7893.2	7867.8	7810.4	7702.0	7641.6	7590.5	7506.1	7456.8	7434.5	7432.8	7442.4
5°	7697.3	7638.3	7490.2	7308.6	7163.6	7031.4	6867.4	6768.6	6698.5	6657.1	6668.2
7.5°	7469.5	7377.1	7144.5	6854.6	6622.0	6365.5	6112.3	5961.0	5843.0	5755.5	5771.4
10°	7313.4	7186.0	6846.6	6429.3	6042.2	5669.4	5320.5	5111.9	4946.2	4818.8	4828.3
12.5°	7260.9	7088.8	6618.8	6061.3	5518.1	5008.4	4552.8	4232.6	4062.1	3917.2	3928.3
15°	7268.8	7037.8	6427.7	5729.9	5046.6	4404.6	3851.9	3477.5	3246.5	3146.1	3147.7
17.5°	7275.1	6978.9	6226.9	5374.8	4579.9	3840.7	3240.1	2861.0	2642.8	2550.4	2552.0
20°	7254.4	6883.3	5978.5	4966.9	4092.4	3322.9	2741.5	2419.7	2254.1	2182.4	2182.4
22.5°	7227.3	6770.2	5698.1	4557.5	3611.3	2873.7	2384.7	2139.4	2043.8	1996.0	1994.4
25°	7240.1	6685.7	5411.4	4137.0	3168.5	2515.4	2147.3	1984.8	1921.1	1890.9	1889.3
27.5°	7308.6	6645.9	5146.9	3718.0	2781.3	2246.1	1988.0	1873.3	1831.9	1812.8	1812.8
30°	7432.8	6645.9	4871.3	3361.2	2459.6	2047.0	1865.4	1787.4	1758.7	1745.9	1745.9
32.5°	7649.5	6682.5	4605.3	3007.6	2203.1	1890.9	1763.4	1710.9	1688.5	1682.2	1682.2
35°	8022.3	6806.8	4345.7	2673.0	1996.0	1763.4	1666.3	1636.0	1620.1	1618.5	1623.2
37.5°	8546.4	7060.1	4102.0	2426.1	1849.5	1659.9	1585.0	1561.1	1551.6	1559.5	1565.9
40°	9205.8	7404.2	3880.5	2203.1	1738.0	1577.0	1510.1	1494.2	1489.5	1500.6	1510.1
42.5°	10002.3	7869.3	3698.9	2042.2	1651.9	1507.0	1446.4	1427.3	1422.6	1435.2	1448.0
45°	10864.2	8369.5	3571.5	1922.7	1585.0	1454.4	1390.7	1369.9	1360.4	1366.8	1381.1
47.5°	11647.9	8842.6	3520.5	1838.3	1521.3	1409.8	1341.3	1315.8	1299.9	1296.7	1307.8
50°	12309.0	9194.7	3544.4	1787.4	1470.4	1360.4	1293.5	1264.9	1240.9	1226.6	1234.6
52.5°	12790.1	9416.1	3566.7	1765.0	1430.5	1306.2	1240.9	1213.9	1181.9	1158.1	1158.1
55°	13138.9	9467.1	3517.3	1747.5	1400.2	1247.3	1181.9	1156.5	1124.7	1097.5	1094.4
57.5°	13276.0	9323.8	3334.1	1722.1	1379.5	1191.5	1119.9	1100.7	1073.7	1041.8	1040.3
60°	13091.1	8880.9	2980.5	1667.8	1352.4	1145.3	1057.8	1045.0	1032.2	1002.0	1000.4
62.5°	12348.8	7909.1	2523.3	1557.9	1298.3	1096.0	1000.4	1006.7	1008.4	987.6	984.5
65°	11002.7	6574.2	2077.3	1414.6	1217.1	1037.0	941.4	971.7	989.2	986.0	981.3
67.5°	9046.5	5116.6	1760.3	1263.3	1110.3	955.8	877.7	912.8	927.1	938.3	935.1
70°	6714.4	3608.1	1456.0	1104.0	981.3	860.2	794.9	812.4	802.9	815.6	820.4
72.5°	3743.5	2164.8	1186.8	944.7	847.4	748.7	702.5	699.3	678.6	678.6	678.6
74°	2246.1	1588.2	1043.4	845.8	766.2	675.5	635.6	621.2	602.2	603.7	602.2
75°	1806.5	1365.2	957.4	780.5	708.9	632.4	592.6	573.5	559.1	559.1	557.5
77.5°	1140.6	1037.0	771.0	621.2	567.1	520.9	493.8	468.4	468.4	466.7	465.1
80°	861.8	825.2	600.6	470.0	434.8	399.8	382.3	371.1	371.1	376.0	374.4
82.5°	591.0	621.2	422.2	328.2	310.7	285.1	282.0	283.6	278.8	272.4	270.8
85°	431.7	466.7	285.1	207.1	189.6	173.6	186.4	192.7	184.8	170.5	164.0
87.5°	165.6	305.8	153.0	86.0	79.6	68.5	79.6	82.8	89.2	70.1	71.7
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)