

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: P192715

Luminaire Tested: **GAN-AF-07-LED-U-AFL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192715
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-AFL-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41775.3 lumens
Efficiency: N/A
Efficacy: 106.8 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 391
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: 28.75 FT

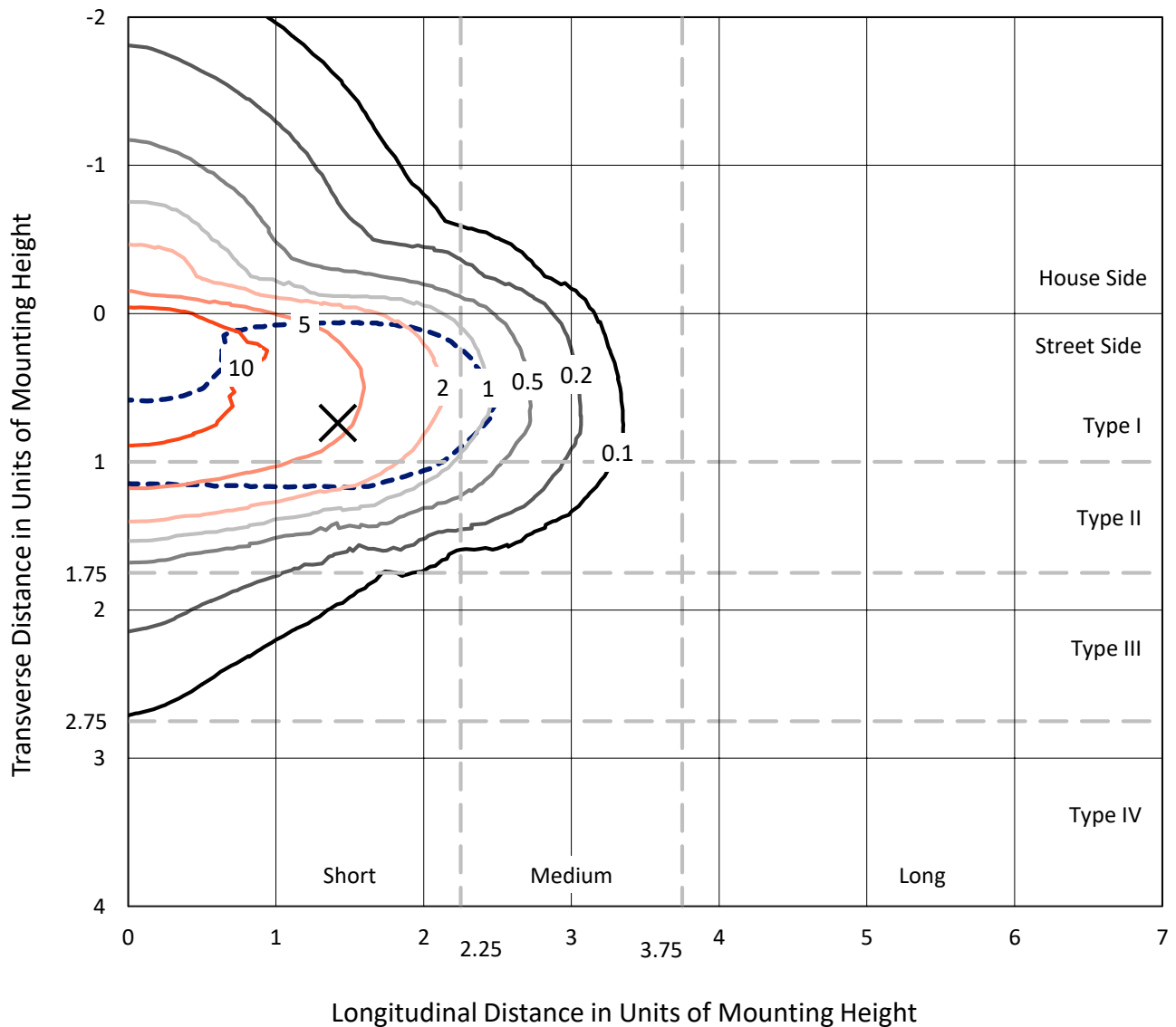


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Iso-Footcandle Lines of Horizontal Illumination

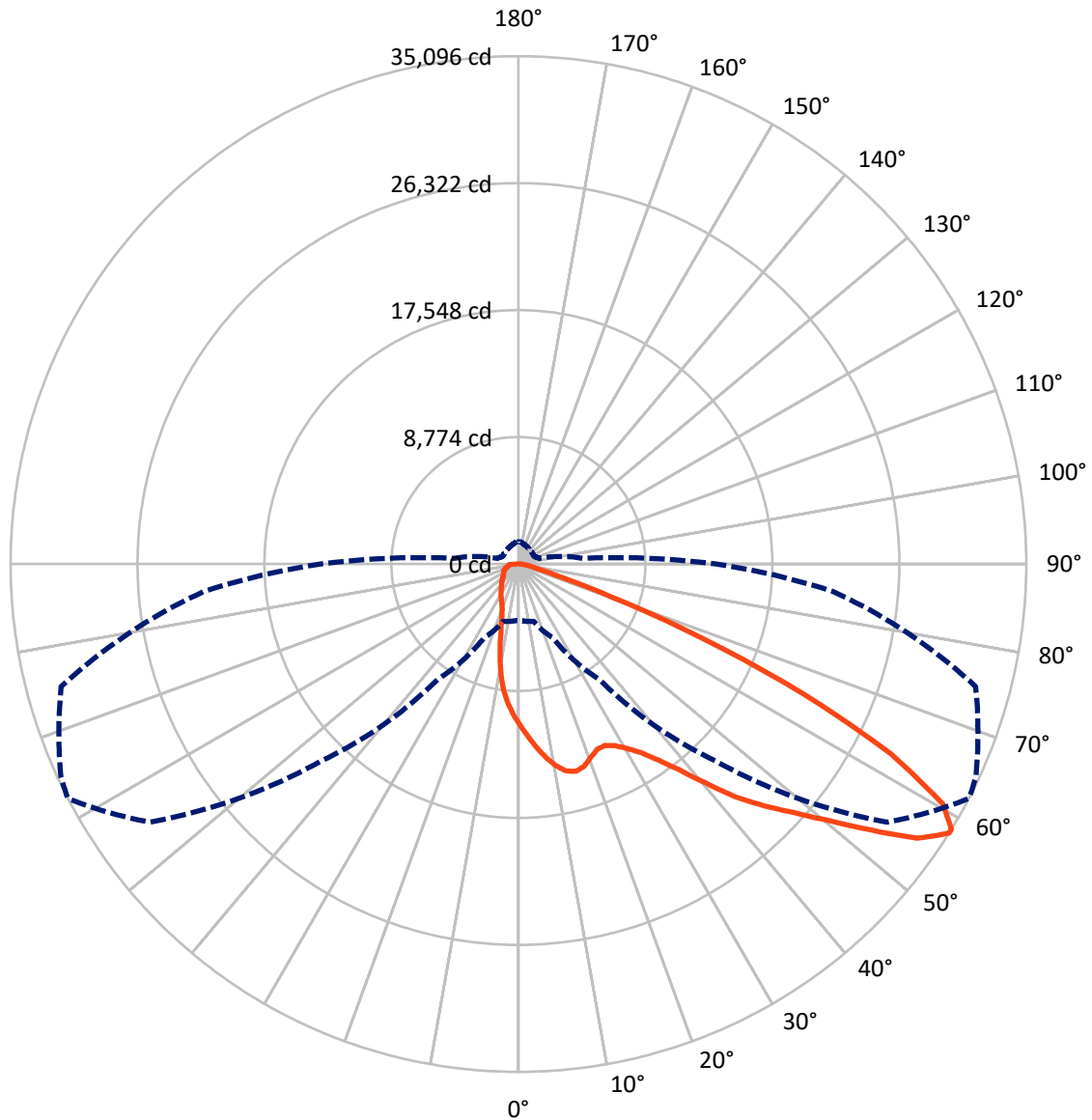
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6370.9	0.0	6370.9
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	35404.4	0.0	35404.4
	% Fixture	84.7	0.0	84.7
Total	Lumens	41775.3	0.0	41775.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	992.4	2.4
10°-20°	2536.8	6.1
20°-30°	4100.9	9.8
30°-40°	6510.1	15.6
40°-50°	9525.7	22.8
50°-60°	9963.0	23.8
60°-70°	5886.2	14.1
70°-80°	1658.2	4.0
80°-90°	602.0	1.4
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°	41775.3	100.0
0°-180°	41775.3	100.0

Coefficient of Utilization



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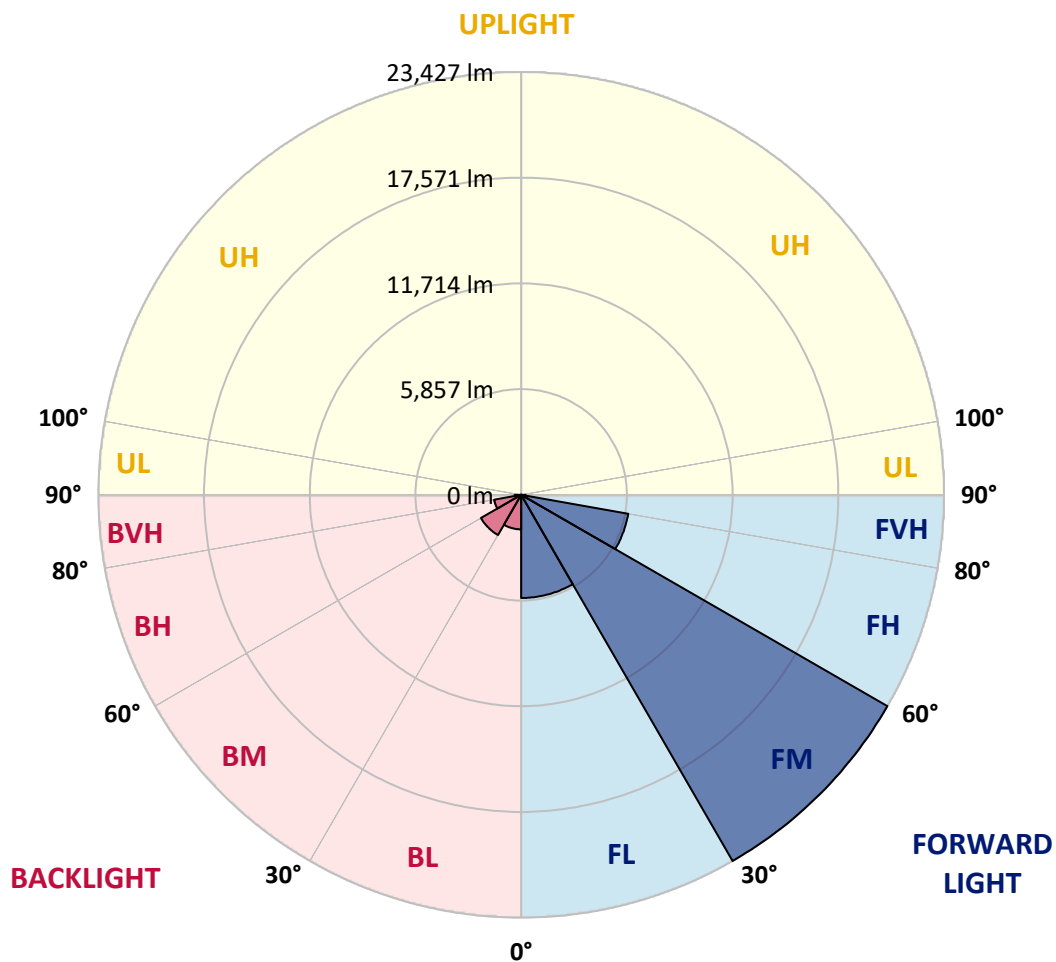
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5715.4	13.7			
FM (30°-60°)	23427.4	56.1			
FH (60°-80°)	6024.2	14.4			G3/7500
FVH (80°-90°)	237.5	0.6			G3/500
BL (0°-30°)	1914.8	4.6	B3/2500		
BM (30°-60°)	2571.4	6.2	B3/5000		
BH (60°-80°)	1520.2	3.6	B3/2500		G3/2500
BVH (80°-90°)	364.5	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	11096.7	11096.7	11096.7	11096.7	11096.7	11096.7	11096.7	11096.7	11096.7	11096.7	11096.7
2.5°	12680.3	12578.0	12513.1	12456.1	12381.3	12222.0	12007.6	11871.8	11802.9	11568.9	11291.5
5°	13923.6	13833.1	13766.2	13689.4	13555.7	13305.9	12959.7	12684.2	12548.5	12080.4	11525.5
7.5°	13632.4	13669.8	13785.9	13988.5	14161.6	14128.1	13819.3	13469.2	13290.2	12639.0	11797.0
10°	11877.7	11942.6	12143.3	12617.4	13384.6	14171.5	14411.4	14169.5	13988.5	13191.8	12076.4
12.5°	11525.5	11523.6	11539.4	11665.3	12121.7	13229.1	14431.1	14675.0	14566.8	13719.0	12361.6
15°	11669.2	11673.1	11661.4	11714.4	11856.0	12294.7	13829.2	14869.7	14946.4	14250.1	12656.7
17.5°	12046.9	12037.1	11991.9	11991.9	12043.0	12214.1	13121.0	14688.9	15043.0	14720.3	12916.4
20°	12680.3	12635.1	12515.1	12404.9	12349.8	12442.3	12829.8	14271.8	14875.6	15131.5	13130.8
22.5°	13447.5	13412.1	13217.3	12981.3	12790.4	12788.5	12979.4	13907.8	14586.5	15518.9	13311.8
25°	14438.9	14381.9	14092.7	13715.1	13380.7	13252.7	13305.9	13890.1	14429.1	15940.0	13473.1
27.5°	15603.6	15499.3	15157.0	14612.2	14120.2	13862.6	13785.9	14210.8	14572.7	16461.2	13697.3
30°	17015.9	16896.0	16457.2	15747.1	15052.7	14629.9	14466.5	14779.3	15048.9	17096.6	14057.3
32.5°	18623.1	18449.9	17942.4	17159.5	16246.8	15601.5	15335.9	15530.7	15745.2	17861.8	14507.8
35°	20844.1	20637.4	19903.8	18823.7	17793.0	16905.8	16480.8	16622.4	16831.1	19002.8	15158.9
37.5°	22358.7	22266.3	21778.4	20763.4	19642.1	18621.2	17964.1	18046.7	18164.8	20429.0	15993.1
40°	22344.9	22382.3	22392.1	22402.0	21638.8	20661.0	19954.9	19868.4	19844.8	21994.9	16941.2
42.5°	21225.7	21379.1	21874.8	22880.1	23344.4	22895.9	22248.6	21998.8	21874.8	23840.1	17946.4
45°	19512.3	19594.9	20523.4	22486.6	24217.8	25108.9	24619.1	23832.1	23607.8	25535.7	18780.5
47.5°	18629.0	18719.5	19303.7	21444.0	24207.9	26897.0	27180.2	25681.3	25280.0	27011.1	19500.5
50°	16526.1	16714.9	17450.7	19630.3	23324.6	27719.3	29857.6	27884.5	27054.3	28447.1	20222.4
52.5°	12664.6	12955.8	13780.0	16648.1	21084.0	27312.1	31999.9	30555.9	29383.4	29934.3	20842.1
55°	7988.6	8205.1	8897.4	11757.7	16866.5	25193.4	32812.2	33445.7	32403.0	31342.7	21379.1
57.5°	4343.5	4439.9	4699.6	6491.6	10970.8	20509.6	31628.1	35090.2	34657.5	32538.8	21784.3
58°	3887.1	3952.0	4113.3	5626.1	9729.5	19229.0	31102.8	35096.2	34879.7	32713.9	21815.8
60°	2883.9	2850.5	2706.8	3210.4	5415.6	13284.3	27927.8	33691.5	34327.0	32928.3	21662.4
62.5°	2533.7	2453.1	2159.9	2126.5	2634.0	6119.8	21369.3	28860.2	30361.2	31704.8	20730.0
65°	2380.2	2293.7	1916.0	1794.0	1900.2	2588.8	12587.9	21644.7	23527.3	27994.6	18345.7
67.5°	2266.1	2154.0	1760.6	1593.4	1601.3	1711.4	5045.8	13632.4	15751.1	21255.2	14269.8
70°	2156.0	2034.1	1628.8	1436.0	1390.8	1353.4	2006.5	6824.2	8745.9	13425.9	9098.1
72.5°	2038.0	1917.9	1512.7	1312.1	1223.6	1099.7	1310.1	2791.3	3898.9	6352.0	4127.0
75°	1866.8	1758.6	1396.7	1202.0	1075.9	910.7	989.5	1457.6	1748.8	2529.8	1988.8
77.5°	1656.4	1567.9	1266.9	1111.5	954.1	739.6	761.3	1011.0	1121.3	1447.8	1182.3
80°	1190.2	1221.6	1127.2	999.2	849.8	600.0	584.2	737.7	796.7	930.5	769.1
82.5°	836.1	853.8	932.4	816.3	702.3	472.1	430.8	519.3	554.7	611.8	415.0
85°	576.4	556.6	639.2	568.4	507.5	314.7	295.1	352.2	373.7	379.6	214.3
87.5°	346.3	346.3	369.9	305.0	273.4	163.3	159.3	200.6	214.3	204.6	118.0
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°	11096.7	11096.7	11096.7	11096.7	11096.7	11096.7	11096.7	11096.7	11096.7	11096.7	11096.7
2.5°	11126.3	10986.6	10689.6	10451.5	10150.5	9837.8	9662.7	9475.8	9347.9	9255.5	9403.1
5°	11210.9	10925.6	10311.9	9729.5	9086.3	8417.5	7910.0	7437.9	7109.3	6904.7	7097.5
7.5°	11344.6	10905.9	9928.3	8932.9	7778.1	6664.7	5669.4	5045.8	4681.9	4502.8	4615.0
10°	11498.0	10874.5	9477.8	7852.9	6200.5	4797.9	4054.3	3802.6	3720.0	3686.4	3702.2
12.5°	11625.9	10807.6	8925.1	6546.7	4656.3	3788.8	3574.3	3568.4	3586.1	3590.0	3595.9
15°	11716.4	10709.3	8104.8	5185.5	3723.9	3452.4	3440.6	3476.0	3509.4	3523.2	3531.0
17.5°	11777.4	10506.6	7178.2	4099.5	3336.3	3289.1	3316.7	3361.9	3397.3	3407.1	3415.0
20°	11771.5	10209.5	6074.6	3418.9	3125.8	3125.8	3173.0	3208.4	3210.4	3198.6	3204.5
22.5°	11710.5	9802.4	5004.4	3057.0	2939.0	2972.4	3019.6	2986.2	2848.5	2757.9	2763.8
25°	11608.2	9316.4	4087.7	2826.7	2765.8	2824.8	2811.0	2559.3	2362.5	2274.0	2274.0
27.5°	11517.7	8742.1	3383.5	2626.1	2592.7	2665.5	2421.6	2193.4	2110.8	2069.5	2055.7
30°	11452.8	8122.5	2913.4	2433.4	2429.5	2376.3	2100.9	2038.0	2024.2	1990.8	1979.0
32.5°	11468.5	7494.8	2612.4	2264.2	2277.9	2034.1	1947.4	1961.3	1949.4	1914.0	1898.3
35°	11598.4	6898.8	2415.7	2110.8	2069.5	1837.3	1857.0	1882.5	1878.6	1829.4	1813.7
37.5°	11830.5	6334.3	2285.8	1982.9	1805.8	1739.0	1770.4	1809.8	1799.9	1766.5	1754.7
40°	12074.5	5803.1	2179.6	1882.5	1650.5	1672.1	1699.6	1721.3	1731.1	1740.9	1733.1
42.5°	12312.4	5248.4	2049.8	1780.3	1585.6	1609.2	1621.0	1642.6	1695.7	1733.1	1731.1
45°	12454.1	4727.1	1916.0	1634.7	1534.4	1548.2	1540.3	1583.6	1648.5	1709.5	1711.4
47.5°	12611.5	4321.9	1809.8	1500.9	1485.2	1495.0	1471.4	1514.7	1573.8	1648.5	1656.4
50°	12802.2	4079.8	1725.2	1394.7	1418.3	1418.3	1412.4	1451.7	1534.4	1621.0	1636.7
52.5°	13018.7	4032.6	1654.4	1318.0	1351.4	1349.5	1355.4	1414.4	1504.8	1589.5	1603.3
55°	13282.3	4160.6	1577.7	1261.0	1286.5	1294.4	1314.1	1380.9	1457.6	1554.1	1560.0
57.5°	13589.1	4420.2	1516.6	1215.7	1227.5	1253.1	1284.6	1345.5	1428.1	1534.4	1540.3
58°	13640.3	4475.3	1506.8	1211.8	1215.7	1245.2	1280.6	1339.6	1422.2	1538.4	1544.3
60°	13642.2	4658.3	1485.2	1194.1	1170.5	1219.7	1259.0	1318.0	1412.4	1552.1	1565.9
62.5°	13158.3	4656.3	1469.4	1168.5	1123.3	1184.3	1229.5	1298.3	1402.6	1585.6	1613.1
65°	11586.6	4231.4	1394.7	1129.2	1085.8	1152.8	1203.9	1284.6	1430.1	1731.1	1748.8
67.5°	9062.7	3468.1	1255.1	1074.0	1036.7	1121.3	1188.2	1282.6	1459.6	1764.5	1776.3
70°	5992.0	2594.7	1101.7	1011.0	985.5	1083.9	1196.1	1349.5	1426.2	1693.7	1662.3
72.5°	3110.1	1821.6	977.7	932.4	926.5	1050.4	1310.1	1341.6	1392.7	1593.4	1554.1
75°	1632.8	1264.9	869.4	845.8	855.7	1042.6	1546.2	1306.2	1349.5	1524.6	1599.3
77.5°	999.2	1020.9	777.1	767.2	786.8	1019.0	1544.3	1261.0	1286.5	1402.6	1485.2
80°	668.8	828.1	706.3	708.2	721.9	932.4	1386.8	1190.2	1209.8	1325.9	1410.4
82.5°	423.0	489.8	641.3	674.7	657.0	769.1	1178.4	1083.9	1111.5	1516.6	1603.3
85°	214.3	306.9	556.6	649.1	592.0	538.9	956.0	950.1	963.8	1093.8	1143.0
87.5°	98.4	169.2	434.8	566.5	446.6	336.4	694.5	704.2	759.4	777.1	777.1
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)