

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: P191785

Luminaire Tested: **GAN-AF-07-LED-U-AFL-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191785
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-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47383 lumens
Efficiency: N/A
Efficacy: 105.8 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): 448
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

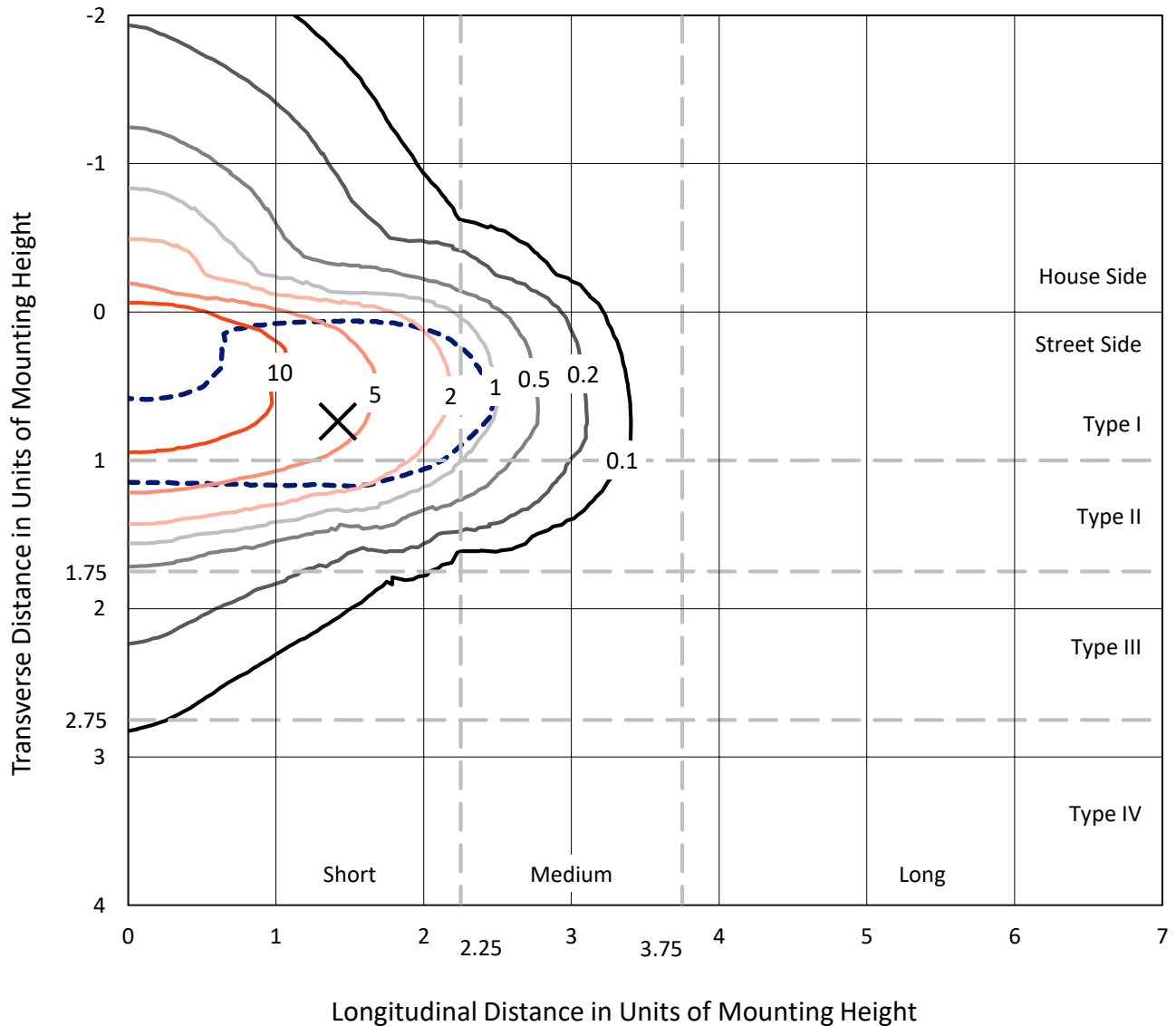


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

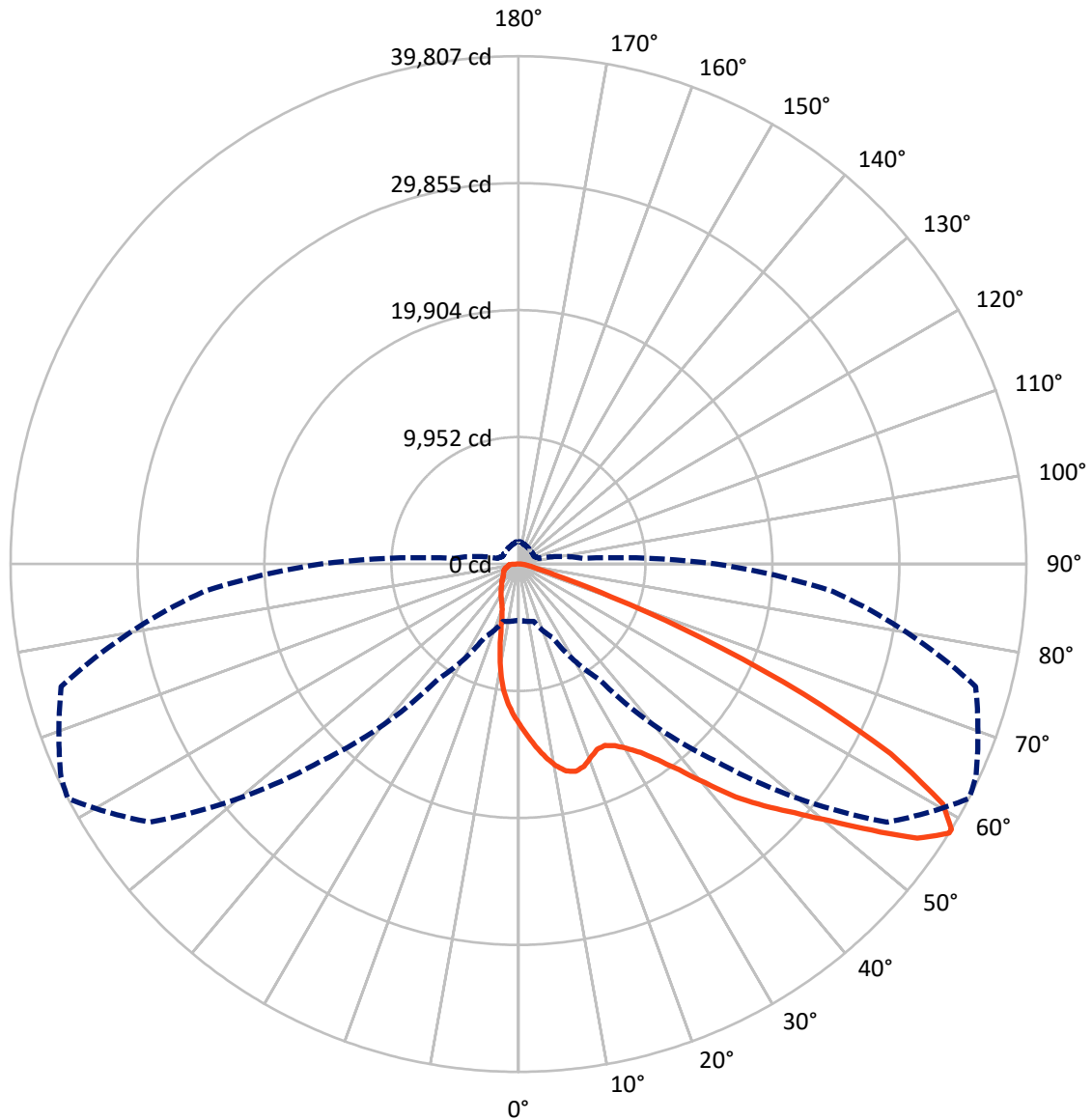


Based on 30 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - Full Cutoff

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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	7226.1	0.0	7226.1
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	40156.9	0.0	40156.9
	% Fixture	84.7	0.0	84.7
Total	Lumens	47383.0	0.0	47383.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1125.7	2.4
10°-20°	2877.4	6.1
20°-30°	4651.4	9.8
30°-40°	7384.0	15.6
40°-50°	10804.3	22.8
50°-60°	11300.4	23.8
60°-70°	6676.3	14.1
70°-80°	1880.7	4.0
80°-90°	682.8	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°	47383.0	100.0
0°-180°	47383.0	100.0

Coefficient of Utilization



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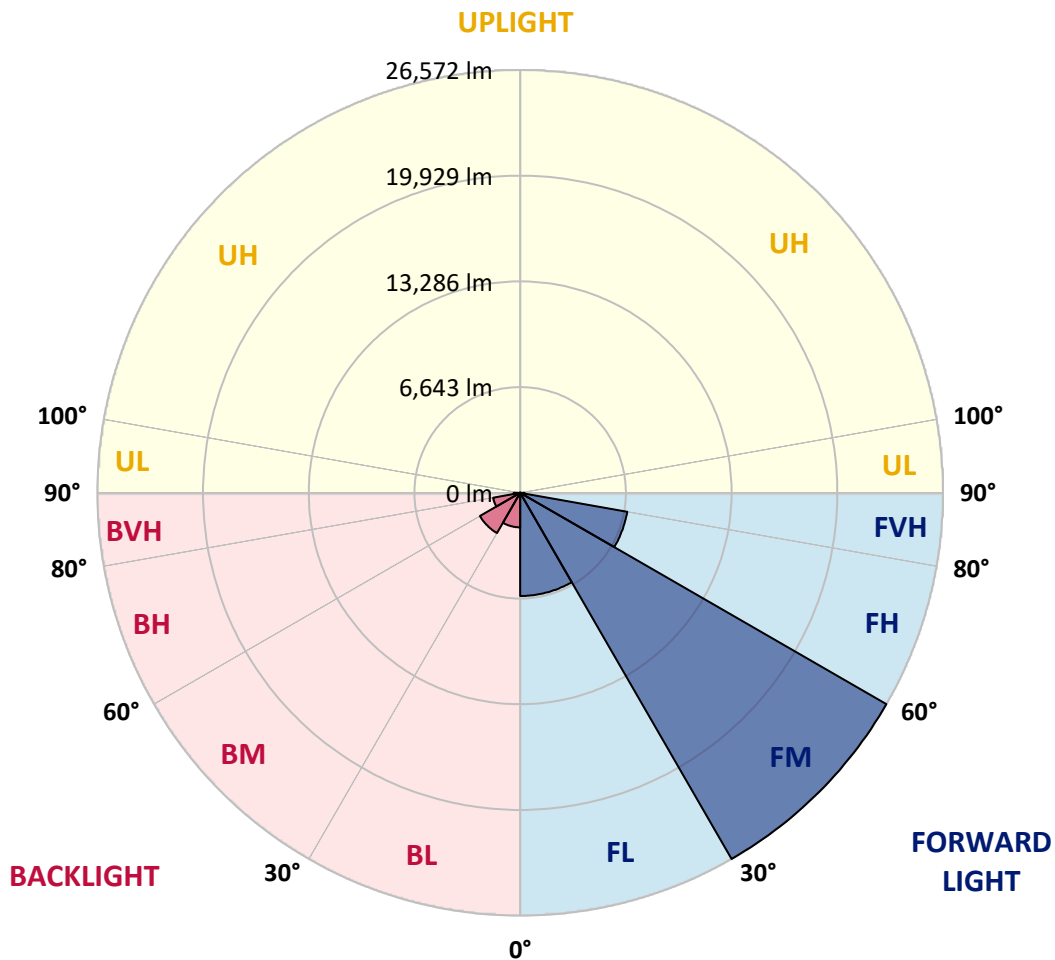
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6482.6	13.7			
FM	(30°-60°)	26572.1	56.1			
FH	(60°-80°)	6832.8	14.4			G3/7500
FVH	(80°-90°)	269.4	0.6			G3/500
BL	(0°-30°)	2171.8	4.6	B3/2500		
BM	(30°-60°)	2916.6	6.2	B3/5000		
BH	(60°-80°)	1724.2	3.6	B3/2500		G3/2500
BVH	(80°-90°)	413.4	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°	12586.3	12586.3	12586.3	12586.3	12586.3	12586.3	12586.3	12586.3	12586.3	12586.3	12586.3
2.5°	14382.5	14266.4	14192.8	14128.1	14043.3	13862.6	13619.4	13465.4	13387.3	13121.8	12807.2
5°	15792.6	15690.0	15614.1	15527.1	15375.4	15092.0	14699.3	14386.9	14233.0	13701.9	13072.7
7.5°	15462.4	15504.8	15636.4	15866.2	16062.6	16024.6	15674.3	15277.2	15074.1	14335.6	13380.6
10°	13472.1	13545.8	13773.3	14311.1	15181.2	16073.7	16345.9	16071.5	15866.2	14962.6	13697.5
12.5°	13072.7	13070.5	13088.4	13231.2	13748.8	15005.0	16368.3	16644.9	16522.2	15560.5	14021.0
15°	13235.6	13240.1	13226.7	13286.9	13447.6	13945.1	15685.5	16865.8	16952.8	16163.0	14355.7
17.5°	13664.0	13652.9	13601.5	13601.5	13659.5	13853.7	14882.3	16660.5	17062.2	16696.2	14650.2
20°	14382.5	14331.1	14195.0	14070.1	14007.6	14112.5	14552.0	16187.5	16872.5	17162.6	14893.4
22.5°	15252.6	15212.5	14991.6	14723.8	14507.4	14505.2	14721.6	15774.7	16544.5	17602.1	15098.7
25°	16377.2	16312.5	15984.5	15556.1	15176.8	15031.7	15092.0	15754.7	16366.0	18079.6	15281.6
27.5°	17698.1	17579.8	17191.6	16573.5	16015.7	15723.4	15636.4	16118.4	16528.9	18670.9	15536.0
30°	19300.1	19164.0	18666.4	17860.9	17073.3	16593.6	16408.4	16763.2	17068.9	19391.6	15944.3
32.5°	21123.0	20926.6	20351.0	19463.0	18427.7	17695.8	17394.6	17615.5	17858.7	20259.5	16455.3
35°	23642.0	23407.8	22575.5	21350.6	20181.4	19175.1	18693.2	18853.8	19090.3	21553.6	17193.8
37.5°	25360.1	25255.2	24701.9	23550.6	22278.8	21120.8	20375.5	20469.2	20603.1	23171.3	18139.8
40°	25344.5	25386.9	25398.0	25409.2	24543.5	23434.5	22633.5	22535.4	22508.6	24947.3	19215.3
42.5°	24074.9	24248.9	24811.2	25951.4	26477.9	25969.2	25235.1	24951.8	24811.2	27040.2	20355.4
45°	22131.5	22225.2	23278.3	25505.1	27468.6	28479.3	27923.8	27031.3	26776.9	28963.5	21301.5
47.5°	21129.7	21232.3	21895.0	24322.6	27457.4	30507.5	30828.8	29128.6	28673.4	30636.9	22118.1
50°	18744.5	18958.7	19793.2	22265.4	26455.6	31440.2	33865.5	31627.6	30686.0	32265.7	22937.0
52.5°	14364.6	14694.8	15629.7	18882.8	23914.2	30978.3	36295.3	34657.6	33327.8	33952.5	23639.8
55°	9061.0	9306.4	10091.8	13336.0	19130.5	28575.3	37216.8	37935.3	36752.7	35550.1	24248.9
57.5°	4926.5	5035.9	5330.4	7363.0	12443.5	23262.7	35873.6	39800.6	39309.7	36906.7	24708.6
58°	4408.9	4482.5	4665.5	6381.3	11035.6	21810.2	35277.9	39807.2	39561.8	37105.2	24744.3
60°	3271.0	3233.0	3070.2	3641.4	6142.6	15067.4	31676.7	38214.2	38934.8	37348.4	24570.2
62.5°	2873.8	2782.3	2449.9	2412.0	2987.6	6941.3	24237.8	32734.3	34436.7	35960.6	23512.6
65°	2699.8	2601.6	2173.2	2034.9	2155.4	2936.3	14277.6	24550.1	26685.4	31752.5	20808.4
67.5°	2570.4	2443.2	1996.9	1807.3	1816.2	1941.2	5723.1	15462.4	17865.4	24108.4	16185.3
70°	2445.4	2307.1	1847.5	1628.8	1577.5	1535.1	2275.8	7740.1	9920.0	15228.1	10319.4
72.5°	2311.5	2175.4	1715.8	1488.2	1387.8	1247.3	1486.0	3166.1	4422.3	7204.6	4681.1
75°	2117.4	1994.7	1584.2	1363.3	1220.5	1033.1	1122.3	1653.3	1983.6	2869.4	2255.8
77.5°	1878.7	1778.3	1436.9	1260.6	1082.1	838.9	863.5	1146.8	1271.8	1642.2	1341.0
80°	1349.9	1385.6	1278.5	1133.5	963.9	680.5	662.7	836.7	903.6	1055.4	872.4
82.5°	948.3	968.4	1057.6	926.0	796.5	535.5	488.6	589.0	629.2	693.9	470.8
85°	653.7	631.4	725.1	644.8	575.7	357.0	334.7	399.4	423.9	430.6	243.2
87.5°	392.7	392.7	419.5	345.8	310.1	185.2	180.7	227.6	243.2	232.0	133.9
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°	12586.3	12586.3	12586.3	12586.3	12586.3	12586.3	12586.3	12586.3	12586.3	12586.3	12586.3
2.5°	12619.8	12461.4	12124.5	11854.5	11513.1	11158.3	10959.8	10747.8	10602.8	10497.9	10665.2
5°	12715.7	12392.2	11696.1	11035.6	10306.0	9547.4	8971.7	8436.3	8063.6	7831.6	8050.3
7.5°	12867.5	12369.9	11261.0	10132.0	8822.3	7559.4	6430.4	5723.1	5310.3	5107.3	5234.4
10°	13041.5	12334.2	10750.0	8907.0	7032.8	5442.0	4598.6	4313.0	4219.2	4181.3	4199.2
12.5°	13186.5	12258.3	10123.1	7425.5	5281.3	4297.3	4054.1	4047.4	4067.5	4072.0	4078.7
15°	13289.2	12146.8	9192.6	5881.5	4223.7	3915.8	3902.4	3942.6	3980.5	3996.1	4005.0
17.5°	13358.3	11917.0	8141.7	4649.9	3784.2	3730.6	3761.8	3813.2	3853.3	3864.5	3873.4
20°	13351.6	11580.0	6890.0	3877.9	3545.4	3545.4	3599.0	3639.1	3641.4	3628.0	3634.7
22.5°	13282.5	11118.2	5676.2	3467.3	3333.4	3371.4	3424.9	3387.0	3230.8	3128.2	3134.9
25°	13166.4	10567.1	4636.5	3206.3	3137.1	3204.0	3188.4	2902.8	2679.7	2579.3	2579.3
27.5°	13063.8	9915.6	3837.7	2978.7	2940.8	3023.3	2746.6	2487.8	2394.1	2347.2	2331.6
30°	12990.2	9212.7	3304.4	2760.0	2755.6	2695.3	2382.9	2311.5	2295.9	2258.0	2244.6
32.5°	13008.0	8501.0	2963.1	2568.1	2583.8	2307.1	2208.9	2224.5	2211.1	2171.0	2153.1
35°	13155.3	7824.9	2739.9	2394.1	2347.2	2084.0	2106.3	2135.3	2130.8	2075.0	2057.2
37.5°	13418.6	7184.5	2592.7	2249.1	2048.3	1972.4	2008.1	2052.7	2041.6	2003.6	1990.3
40°	13695.2	6582.1	2472.2	2135.3	1872.0	1896.5	1927.8	1952.3	1963.5	1974.6	1965.7
42.5°	13965.2	5952.9	2324.9	2019.3	1798.4	1825.1	1838.5	1863.1	1923.3	1965.7	1963.5
45°	14125.9	5361.6	2173.2	1854.1	1740.4	1756.0	1747.0	1796.1	1869.8	1938.9	1941.2
47.5°	14304.4	4902.0	2052.7	1702.4	1684.6	1695.7	1669.0	1718.0	1785.0	1869.8	1878.7
50°	14520.8	4627.6	1956.8	1581.9	1608.7	1608.7	1602.0	1646.6	1740.4	1838.5	1856.4
52.5°	14766.2	4574.0	1876.5	1494.9	1532.9	1530.6	1537.3	1604.2	1706.9	1802.8	1818.4
55°	15065.2	4719.0	1789.4	1430.2	1459.2	1468.1	1490.5	1566.3	1653.3	1762.7	1769.4
57.5°	15413.3	5013.6	1720.3	1378.9	1392.3	1421.3	1457.0	1526.2	1619.9	1740.4	1747.0
58°	15471.3	5076.0	1709.1	1374.4	1378.9	1412.4	1452.5	1519.5	1613.2	1744.8	1751.5
60°	15473.5	5283.5	1684.6	1354.4	1327.6	1383.4	1428.0	1494.9	1602.0	1760.4	1776.1
62.5°	14924.7	5281.3	1666.7	1325.3	1274.0	1343.2	1394.5	1472.6	1590.9	1798.4	1829.6
65°	13141.9	4799.4	1581.9	1280.7	1231.6	1307.5	1365.5	1457.0	1622.1	1963.5	1983.6
67.5°	10279.2	3933.6	1423.5	1218.2	1175.9	1271.8	1347.7	1454.8	1655.6	2001.4	2014.8
70°	6796.3	2943.0	1249.5	1146.8	1117.8	1229.4	1356.6	1530.6	1617.6	1921.1	1885.4
72.5°	3527.6	2066.1	1108.9	1057.6	1050.9	1191.5	1486.0	1521.7	1579.7	1807.3	1762.7
75°	1851.9	1434.7	986.2	959.4	970.6	1182.5	1753.7	1481.5	1530.6	1729.2	1814.0
77.5°	1133.5	1158.0	881.3	870.2	892.5	1155.8	1751.5	1430.2	1459.2	1590.9	1684.6
80°	758.6	939.3	801.0	803.2	818.9	1057.6	1573.0	1349.9	1372.2	1503.8	1599.8
82.5°	479.7	555.6	727.4	765.3	745.2	872.4	1336.5	1229.4	1260.6	1720.3	1818.4
85°	243.2	348.1	631.4	736.3	671.6	611.4	1084.4	1077.7	1093.3	1240.6	1296.3
87.5°	111.6	191.9	493.1	642.6	506.5	381.5	787.6	798.8	861.3	881.3	881.3
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)