

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: P193096

Luminaire Tested: **GAN-AF-08-LED-U-T2-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-08-LED-U-T2-7030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29831 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

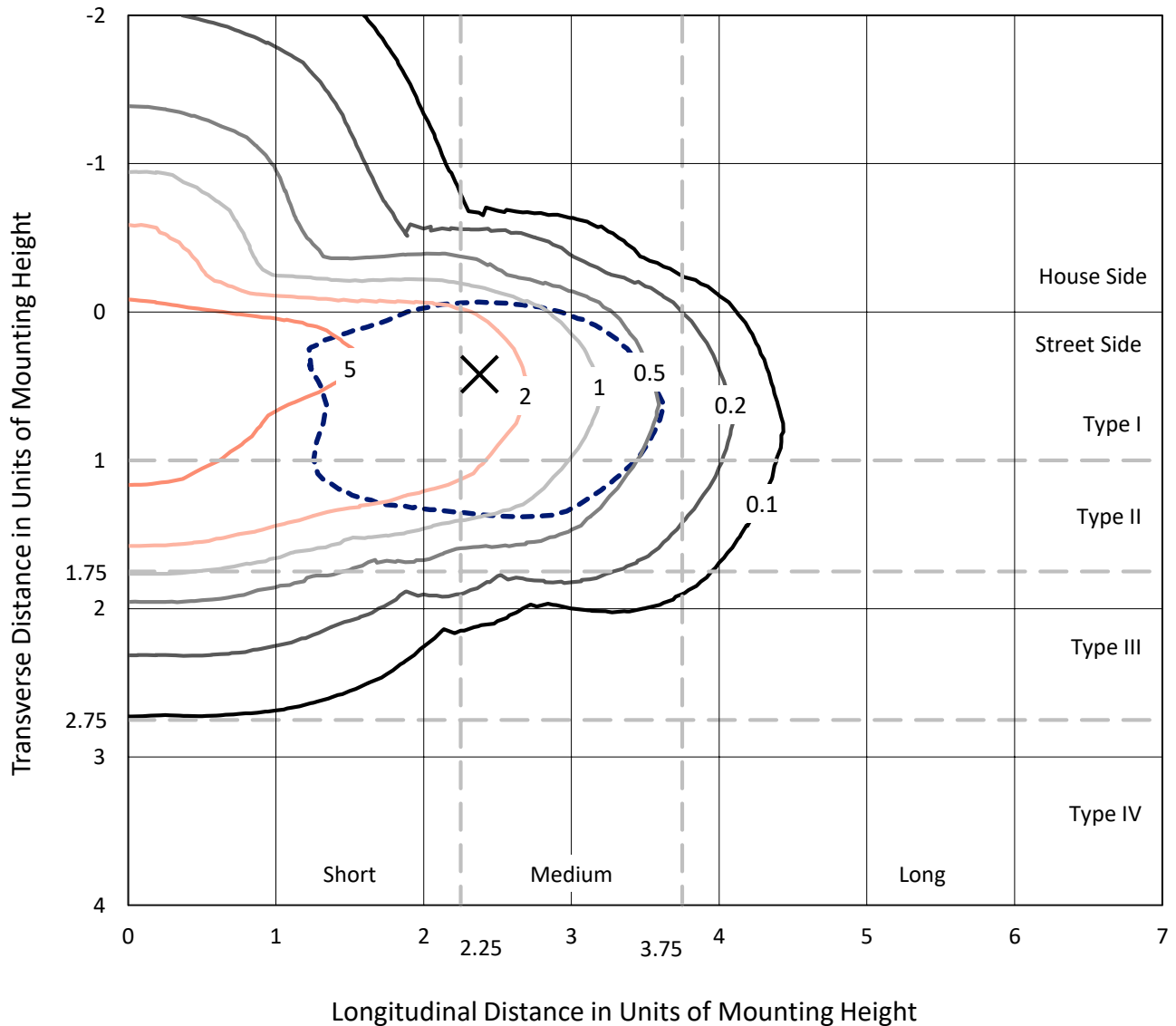
Input Watts (W): 257
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

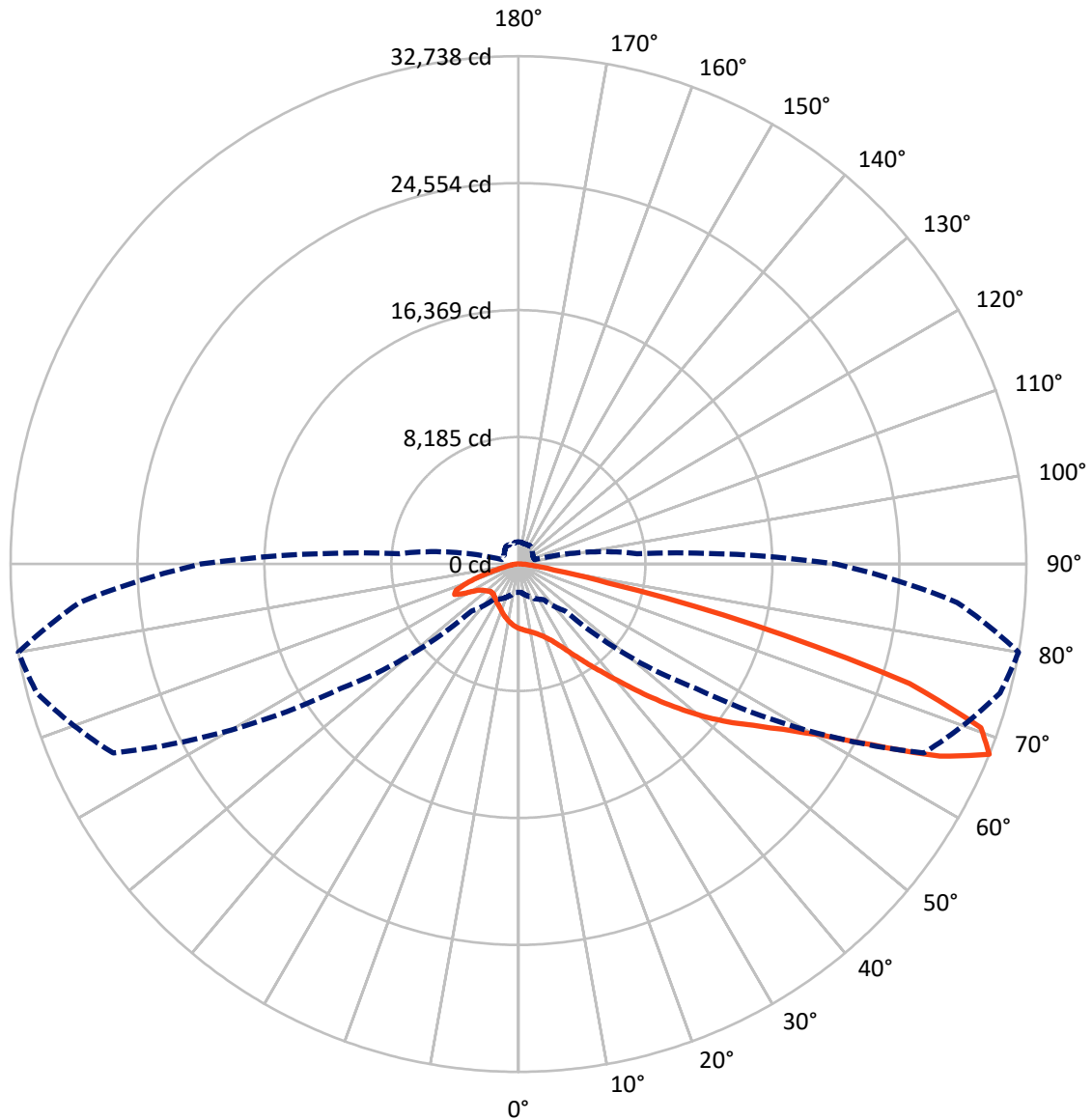
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5493.7	0.0	5493.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	24337.3	0.0	24337.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	29831.0	0.0	29831.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.3	1.3
10°-20°	1101.3	3.7
20°-30°	1822.9	6.1
30°-40°	2981.8	10.0
40°-50°	4814.4	16.1
50°-60°	6950.6	23.3
60°-70°	7670.4	25.7
70°-80°	3535.6	11.9
80°-90°	571.9	1.9
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°	29831.0	100.0
0°-180°	29831.0	100.0



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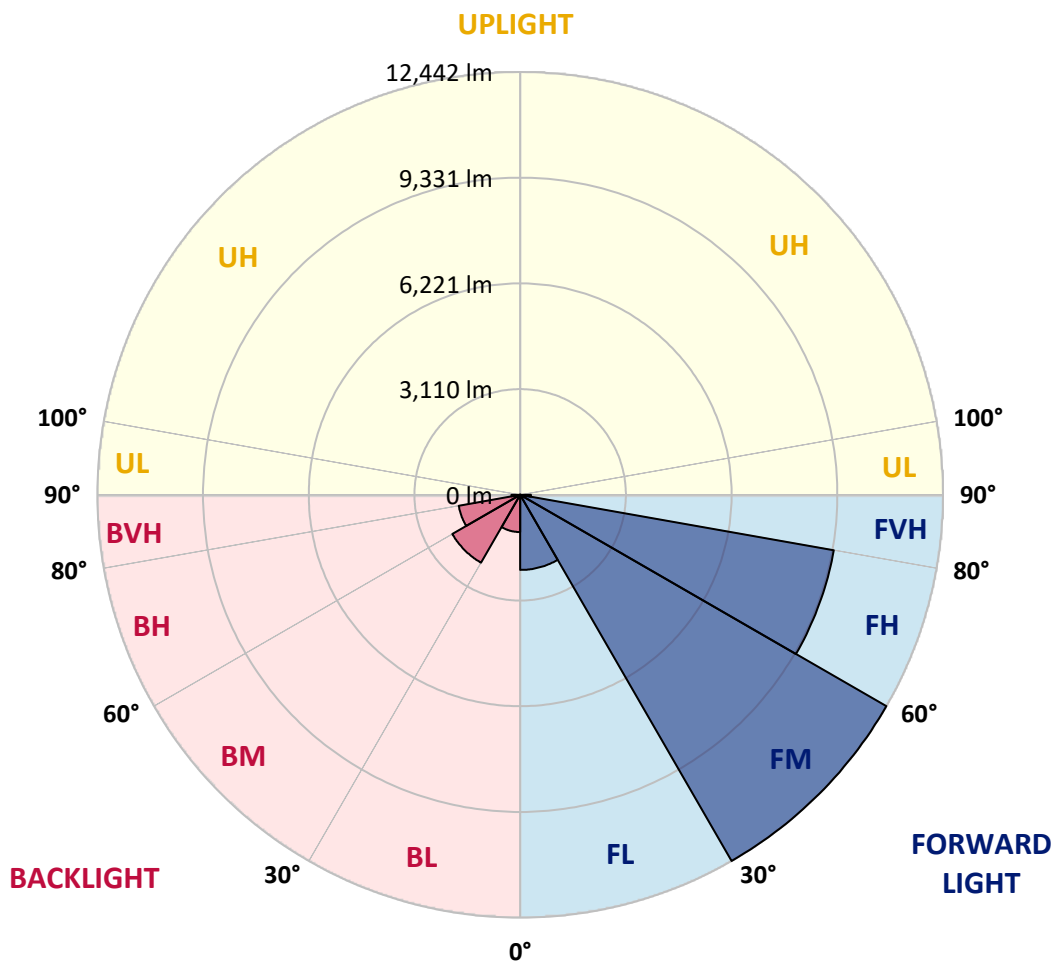
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2210.4	7.4			
FM (30°-60°)	12441.8	41.7			
FH (60°-80°)	9370.7	31.4			G4/12000
FVH (80°-90°)	314.4	1.1			G3/500
BL (0°-30°)	1096.1	3.7	B3/2500		
BM (30°-60°)	2305.0	7.7	B2/2500		
BH (60°-80°)	1835.2	6.2	B3/2500		G3/2500
BVH (80°-90°)	257.5	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-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4
2.5°	4533.6	4507.2	4511.6	4504.2	4482.2	4444.0	4402.9	4328.0	4250.1	4209.0	4176.8
5°	4912.6	4905.0	4894.9	4871.4	4815.6	4736.3	4637.8	4505.7	4363.3	4288.3	4216.4
7.5°	5196.0	5191.6	5178.4	5163.6	5109.3	5013.8	4865.6	4677.5	4470.5	4367.6	4255.9
10°	5219.5	5226.8	5237.1	5276.6	5284.0	5232.7	5081.3	4853.8	4582.0	4449.9	4307.4
12.5°	5019.7	5035.9	5075.5	5176.8	5284.0	5347.1	5269.3	5038.8	4712.8	4552.8	4372.0
15°	4755.3	4764.1	4812.7	4952.1	5144.5	5339.8	5413.2	5243.0	4881.6	4684.8	4468.9
17.5°	4642.2	4646.7	4680.4	4773.0	4952.1	5231.2	5494.1	5464.7	5088.8	4849.4	4587.9
20°	4584.9	4595.2	4643.7	4734.8	4847.9	5091.7	5505.8	5704.1	5335.4	5055.0	4737.7
22.5°	4748.0	4743.6	4761.2	4806.8	4902.3	5049.1	5497.0	5950.8	5649.7	5319.3	4933.0
25°	5128.4	5144.5	5113.7	5062.3	5093.1	5196.0	5544.1	6218.1	6043.3	5658.5	5188.6
27.5°	5670.2	5654.1	5608.6	5488.2	5425.0	5469.1	5699.6	6506.0	6532.4	6105.0	5526.4
30°	6210.8	6197.5	6153.5	6006.6	5877.4	5840.7	6002.1	6836.4	7115.4	6641.0	5940.5
32.5°	6771.8	6757.0	6715.9	6569.1	6413.4	6328.2	6432.5	7218.2	7802.6	7281.4	6428.0
35°	7463.5	7435.5	7348.9	7144.8	6992.0	6926.0	6974.4	7698.4	8595.8	8039.2	7019.9
37.5°	8114.0	8156.6	8068.5	7786.6	7588.3	7564.8	7619.0	8284.4	9450.5	8886.5	7699.9
40°	8767.6	8774.9	8695.6	8465.1	8260.9	8222.8	8359.3	8995.2	10459.4	9899.9	8526.7
42.5°	9443.2	9457.8	9324.1	9111.2	8961.5	8968.8	9124.5	9827.9	11616.7	11093.8	9478.4
45°	10243.5	10265.6	10118.7	9839.7	9703.1	9977.7	9913.1	10761.9	12885.5	12450.8	10571.1
47.5°	11080.6	11114.4	11002.7	10741.4	10571.1	10948.5	10701.7	11797.3	14251.3	13906.2	11770.8
50°	11537.3	11585.9	11694.4	11675.5	11638.8	11575.6	11581.4	12907.6	15659.7	15421.8	13004.5
52.5°	11292.1	11290.7	11687.1	12168.9	12682.9	12721.0	12653.6	14078.0	16975.6	16903.6	14166.1
55°	10170.1	10246.5	10847.1	11779.7	13183.7	14060.5	14260.2	15418.8	18267.9	18351.7	15345.5
57.5°	8302.1	8365.2	9175.8	10475.6	12508.1	14856.4	16545.3	17367.8	19713.1	20103.7	16915.4
60°	5630.6	5707.0	6566.2	8127.2	10689.9	14412.9	18720.3	20845.3	21443.1	22331.6	19118.3
62.5°	3308.8	3377.7	4078.3	5126.9	7526.6	12352.5	19674.9	25793.1	24190.9	25693.2	22478.5
65°	2277.8	2324.8	2665.5	3191.3	4325.0	8319.6	18491.1	29209.1	28419.0	29858.2	26374.6
67.5°	1832.9	1827.0	2097.1	2455.5	2784.5	4289.8	13982.6	28822.8	32137.5	32738.1	28396.9
70°	1509.8	1503.9	1687.4	1984.0	2224.9	2415.8	7616.1	24323.1	31379.7	31623.5	26534.7
72.5°	1263.0	1268.8	1386.4	1606.6	1825.5	1819.6	3346.9	17110.6	24685.8	26371.7	21152.3
75°	1066.3	1069.1	1147.0	1302.7	1481.8	1465.7	1815.3	9269.9	14349.8	15523.1	11725.3
77.5°	907.6	910.5	960.5	1047.1	1174.9	1169.0	1324.7	4004.9	5986.0	5912.6	4010.8
80°	809.2	809.2	832.7	848.8	919.3	892.8	982.5	1923.8	2530.5	2336.5	1600.7
82.5°	634.5	637.4	781.3	775.4	724.1	690.2	690.2	1133.8	1340.8	1239.5	937.0
85°	356.8	355.4	503.6	608.0	637.4	486.1	481.8	634.5	729.9	643.2	453.8
87.5°	152.8	155.7	233.5	270.2	361.3	302.5	298.2	327.4	371.6	321.7	210.0
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°	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4	4144.4
2.5°	4145.9	4107.7	4024.0	3919.6	3825.7	3764.0	3708.3	3627.4	3631.9	3576.0	3535.0
5°	4142.9	4063.7	3869.8	3639.2	3417.4	3257.3	3137.0	3028.2	3001.8	2950.4	2919.6
7.5°	4145.9	4016.6	3690.6	3322.0	3047.3	2844.7	2741.9	2684.6	2671.4	2653.8	2655.2
10°	4156.1	3974.1	3493.8	3025.3	2737.5	2603.8	2578.8	2596.5	2617.1	2622.9	2624.4
12.5°	4179.6	3935.8	3277.9	2761.0	2543.7	2502.5	2545.0	2605.3	2644.9	2664.1	2662.5
15°	4232.4	3906.4	3070.8	2553.9	2436.4	2458.5	2537.8	2622.9	2680.2	2706.7	2708.1
17.5°	4289.8	3863.9	2857.9	2395.3	2357.2	2412.9	2511.4	2611.2	2681.7	2711.0	2717.0
20°	4364.7	3811.1	2634.7	2276.3	2282.2	2345.4	2437.9	2537.8	2615.5	2640.6	2652.3
22.5°	4463.1	3753.7	2439.3	2179.4	2196.9	2245.5	2317.5	2404.1	2471.7	2483.5	2493.8
25°	4595.2	3692.1	2283.6	2091.3	2098.7	2126.5	2175.1	2226.3	2273.3	2260.1	2270.5
27.5°	4773.0	3639.2	2167.7	2010.5	1997.3	2003.2	2028.2	2044.4	2069.3	2032.5	2036.9
30°	4981.4	3581.9	2078.1	1940.0	1903.3	1893.0	1898.9	1907.6	1926.8	1876.8	1869.5
32.5°	5223.8	3512.9	1994.4	1878.3	1827.0	1806.4	1809.4	1832.9	1906.2	1875.4	1859.3
35°	5505.8	3435.1	1906.2	1810.8	1775.6	1746.2	1743.2	1816.7	2035.5	2016.4	2001.7
37.5°	5836.2	3357.2	1818.2	1734.4	1737.3	1705.1	1694.7	1778.5	2060.4	1985.6	1975.3
40°	6256.3	3316.1	1743.2	1653.6	1690.4	1686.0	1665.4	1707.9	1895.9	1759.4	1741.8
42.5°	6776.2	3322.0	1687.4	1567.0	1634.5	1681.5	1649.3	1650.7	1718.3	1615.5	1599.3
45°	7417.9	3391.0	1647.7	1498.0	1571.3	1677.1	1643.4	1619.9	1625.8	1571.3	1562.6
47.5°	8166.9	3533.5	1619.9	1440.7	1511.2	1661.0	1641.9	1611.0	1597.8	1568.4	1561.1
50°	8999.5	3740.5	1599.3	1386.4	1456.9	1634.5	1643.4	1602.3	1587.5	1575.8	1571.3
52.5°	9817.6	3976.9	1568.4	1339.4	1414.3	1602.3	1647.7	1593.4	1577.2	1568.4	1564.0
55°	10729.6	4272.1	1521.4	1299.7	1379.1	1561.1	1647.7	1580.2	1562.6	1564.0	1562.6
57.5°	11961.8	4749.5	1465.7	1266.0	1336.5	1511.2	1619.9	1565.5	1543.5	1544.9	1546.4
60°	13887.1	5591.1	1398.1	1232.1	1283.6	1452.5	1581.6	1533.2	1511.2	1517.1	1518.4
62.5°	16718.7	6826.1	1310.0	1182.1	1227.7	1389.3	1528.9	1492.2	1470.1	1484.8	1484.8
65°	19661.6	7915.8	1201.3	1119.1	1169.0	1320.3	1462.8	1440.7	1418.6	1452.5	1451.0
67.5°	20453.3	7671.9	1092.6	1050.1	1110.3	1243.9	1383.4	1371.6	1360.0	1418.6	1415.8
70°	18169.6	6159.3	992.7	979.5	1045.6	1161.7	1298.2	1298.2	1290.9	1334.9	1324.7
72.5°	13843.0	4367.6	897.3	904.6	972.2	1072.1	1205.6	1216.0	1204.2	1226.3	1217.4
75°	7410.6	2499.6	801.9	822.4	881.1	981.0	1103.0	1113.3	1105.8	1104.4	1108.8
77.5°	2462.8	1221.8	702.0	734.3	785.7	887.0	995.7	1011.8	994.3	991.3	989.9
80°	1097.1	768.1	591.8	634.5	679.9	779.8	882.6	895.8	876.8	903.1	869.3
82.5°	704.9	505.3	474.4	521.3	565.4	672.6	769.5	772.5	754.9	876.8	747.6
85°	342.2	312.8	356.8	399.5	437.7	528.7	637.4	638.8	594.8	541.9	522.8
87.5°	170.3	182.1	237.9	276.1	295.2	362.7	464.2	455.3	436.2	396.5	365.7
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)