

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: P193266

Luminaire Tested: **GAN-AF-08-LED-U-T4FT-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
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-T4FT-7030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37501.1 lumens
Efficiency: N/A
Efficacy: 112.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 334
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

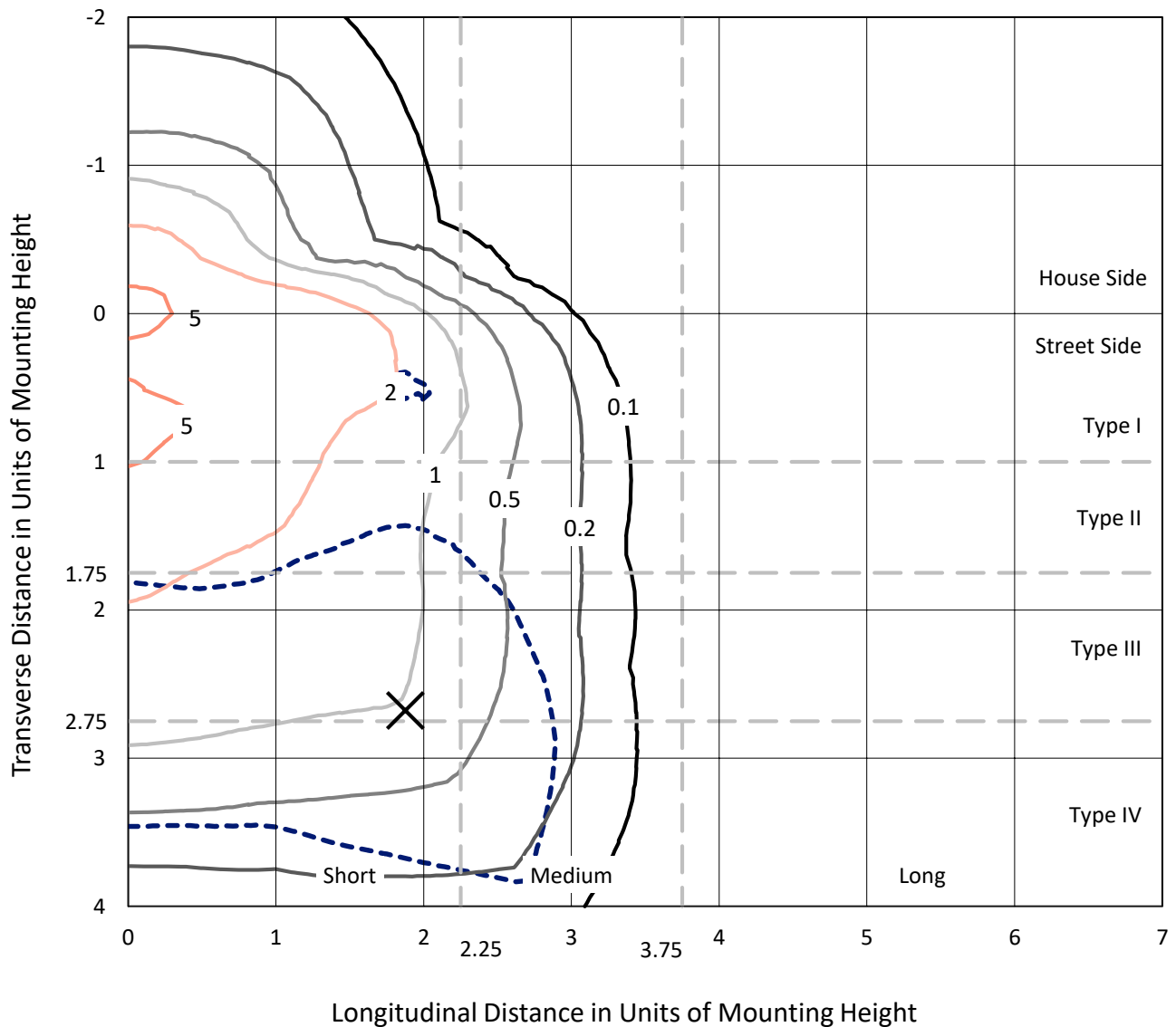


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

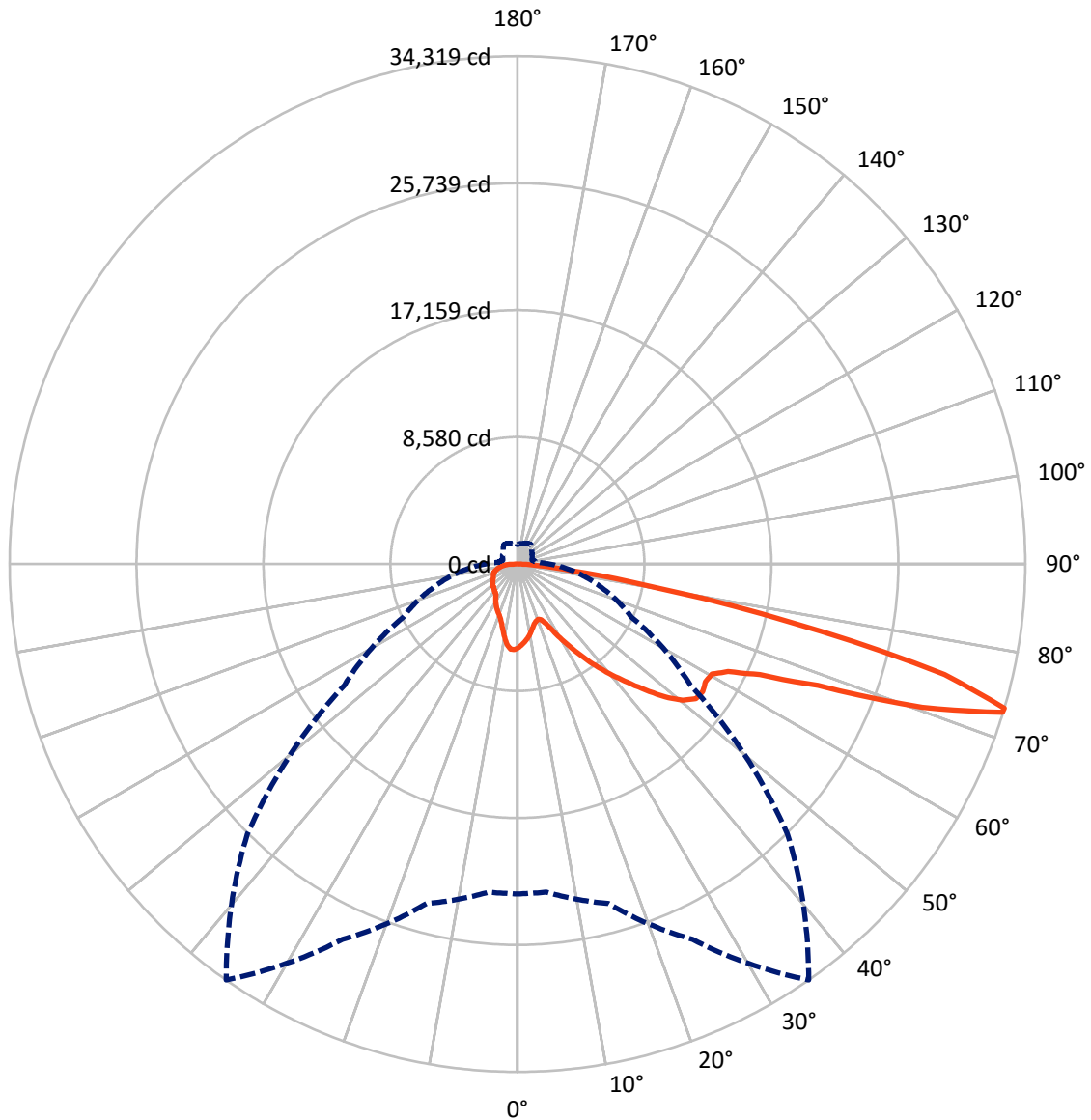


Based on 30 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7152.5	0.0	7152.5
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	30348.6	0.0	30348.6
	% Fixture	80.9	0.0	80.9
Total	Lumens	37501.1	0.0	37501.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.4	1.4
10°-20°	1278.9	3.4
20°-30°	2067.5	5.5
30°-40°	3466.9	9.2
40°-50°	5344.0	14.3
50°-60°	7169.6	19.1
60°-70°	9551.4	25.5
70°-80°	7284.8	19.4
80°-90°	825.7	2.2
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°	37501.1	100.0
0°-180°	37501.1	100.0



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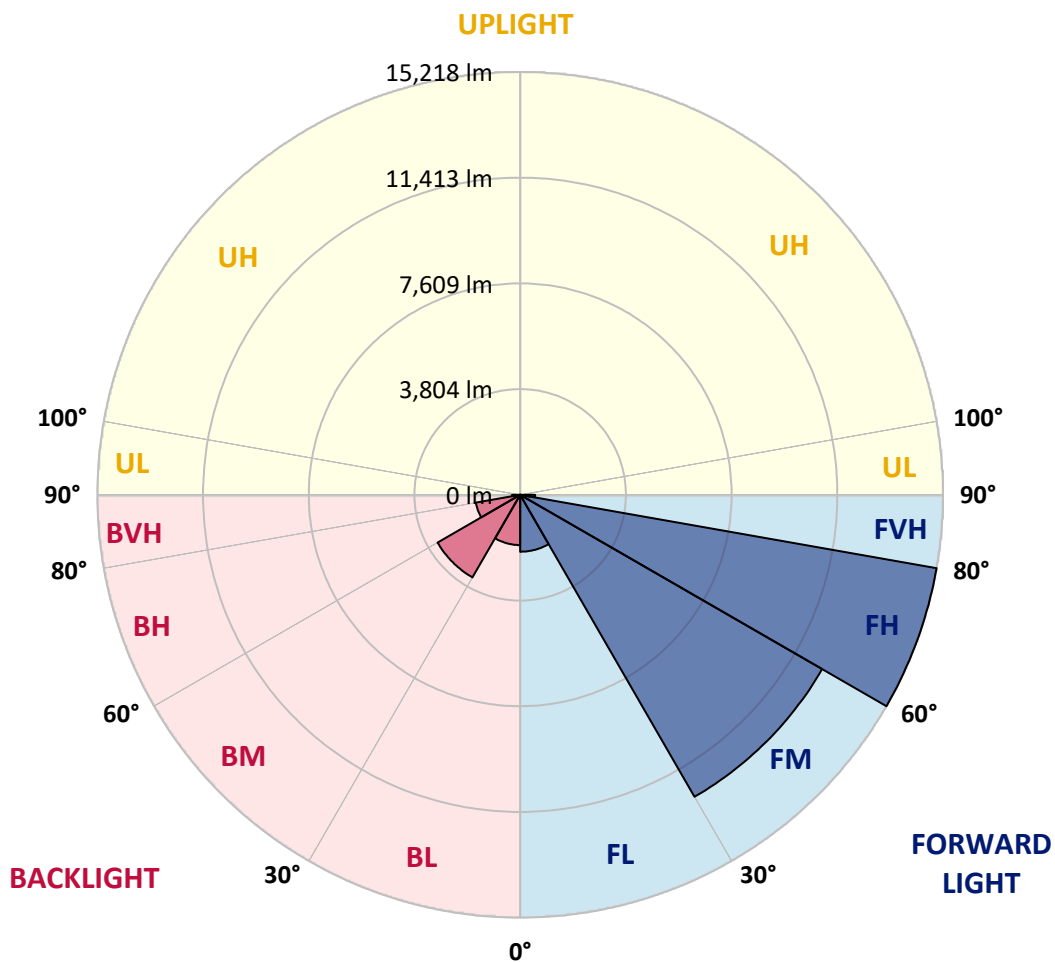
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2048.8	5.5			
FM	(30°-60°)	12548.1	33.5			
FH	(60°-80°)	15217.9	40.6			G5
FVH	(80°-90°)	533.7	1.4			G4/750
BL	(0°-30°)	1809.9	4.8	B3/2500		
BM	(30°-60°)	3432.4	9.2	B3/5000		
BH	(60°-80°)	1618.2	4.3	B3/2500		G3/2500
BVH	(80°-90°)	292.0	0.8			G3/500
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°	45°	55°	65°	75°	85°	90°
0°	5660.0	5660.0	5660.0	5660.0	5660.0	5660.0	5660.0	5660.0	5660.0	5660.0	5660.0
2.5°	5436.7	5447.5	5435.0	5451.2	5478.2	5507.0	5526.8	5555.7	5588.1	5633.1	5643.9
5°	5181.1	5197.3	5197.3	5226.1	5278.4	5325.1	5368.4	5415.1	5483.6	5561.1	5591.7
7.5°	4900.2	4909.1	4925.3	4968.6	5044.2	5110.8	5172.0	5247.7	5341.3	5444.0	5498.0
10°	4561.6	4574.1	4599.4	4660.6	4763.2	4855.1	4943.3	5047.8	5166.7	5294.4	5362.9
12.5°	4322.1	4318.5	4329.3	4374.3	4464.4	4576.0	4703.8	4837.1	4983.0	5132.5	5215.3
15°	4241.0	4221.2	4179.8	4169.0	4217.6	4329.3	4476.9	4640.8	4815.5	4995.6	5098.2
17.5°	4291.3	4257.2	4143.7	4060.9	4053.7	4138.3	4295.0	4478.7	4680.4	4900.2	5028.0
20°	4608.3	4527.3	4248.2	4055.4	3988.8	4030.3	4167.1	4361.6	4599.4	4891.1	5055.0
22.5°	5366.5	5247.7	4655.2	4296.8	4071.8	4021.3	4124.0	4331.0	4608.3	5002.8	5211.6
25°	6470.5	6301.2	5353.9	4898.3	4433.7	4165.4	4188.8	4401.3	4736.3	5262.0	5514.2
27.5°	7342.1	7232.2	6267.0	5746.5	5092.8	4554.4	4399.5	4577.8	4997.4	5687.1	5944.6
30°	7860.7	7794.1	7243.1	6708.2	5933.8	5173.9	4802.8	4909.1	5406.1	6276.0	6488.5
32.5°	8462.2	8422.6	8152.5	7660.8	6841.4	5987.9	5442.2	5404.4	5953.6	6983.8	7081.0
35°	9085.4	9072.7	8914.3	8561.2	7815.7	7061.1	6290.4	6034.6	6549.6	7718.4	7657.2
37.5°	9665.2	9643.6	9551.7	9346.4	8834.9	8213.7	7154.8	6681.2	7192.6	8420.8	8148.9
40°	10733.1	10563.8	10248.6	10093.8	9865.0	9184.4	7840.9	7284.5	7858.9	9090.7	8573.9
42.5°	12035.1	11759.6	11172.6	10960.1	10927.6	9949.7	8309.1	7869.7	8530.6	9755.2	8991.6
45°	13059.8	12800.5	12294.4	12026.0	12144.9	10643.1	8779.2	8494.6	9222.1	10452.2	9422.1
47.5°	14152.9	13745.9	13075.9	13157.0	13416.4	11298.5	9258.2	9166.3	9980.3	11232.0	9956.9
50°	14192.6	13881.0	13587.4	14071.8	14475.2	11901.8	9857.8	9870.5	10907.8	12213.3	10668.3
52.5°	13369.5	13302.9	13769.3	14531.1	15112.7	12379.1	10540.4	10598.0	12094.6	13340.7	11449.9
55°	13081.4	13005.7	13544.3	14370.8	15199.2	12773.4	11280.6	11385.1	13529.8	14529.3	12211.6
57.5°	13783.7	13616.2	13652.3	14295.2	14988.5	13205.6	12087.4	12298.0	15089.4	15568.4	12701.4
60°	15746.7	15388.3	14707.5	14691.3	15102.0	13854.0	13020.1	13277.6	16710.1	16065.4	12510.5
62.5°	18500.1	18141.7	16866.8	16036.5	15975.4	14923.6	14165.5	14234.0	17646.6	15391.9	11345.4
65°	21480.6	21160.0	19735.5	18563.1	17997.7	16695.7	15496.4	14660.7	17340.4	13538.8	9306.8
67.5°	25098.5	24754.6	23530.0	22447.7	21903.8	19555.4	16431.0	14251.9	15397.3	10488.2	6690.2
70°	27628.6	27277.4	26794.8	27671.9	29002.7	23681.2	16551.5	12589.7	11500.2	6971.1	4026.7
72.5°	24327.6	24163.8	25044.4	28738.0	34280.9	26184.4	14961.4	9166.3	6679.3	3700.7	2330.3
73°	22289.1	22253.2	23755.0	27990.6	34318.8	25799.0	14264.6	8519.8	5728.5	3274.0	2130.4
75°	10065.0	10354.9	13646.8	21379.8	29816.7	21259.0	10039.8	4887.5	3236.2	2261.8	1608.2
77.5°	2418.6	2519.4	4269.9	10153.3	18829.7	12668.9	4548.9	2416.7	2069.2	1597.4	1174.2
80°	1030.1	1064.3	1644.2	3751.2	8865.7	5101.9	2096.1	1619.0	1431.7	1114.8	822.9
82.5°	572.6	608.7	932.8	1701.8	3578.2	1739.6	1278.6	1127.3	941.9	671.7	534.9
85°	324.2	343.9	545.6	950.9	1516.3	698.7	765.4	749.2	531.2	345.8	262.9
87.5°	153.1	165.6	262.9	441.2	594.3	273.7	389.0	428.7	333.1	210.7	136.9
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5660.0	5660.0	5660.0	5660.0	5660.0	5660.0	5660.0	5660.0	5660.0	5660.0
2.5°	5656.5	5688.9	5726.8	5746.5	5764.5	5786.2	5807.7	5807.7	5811.4	5813.1
5°	5616.8	5683.4	5742.8	5768.2	5773.5	5773.5	5768.2	5739.3	5714.2	5724.8
7.5°	5534.0	5631.2	5681.7	5672.6	5604.2	5525.0	5458.4	5377.3	5335.9	5328.7
10°	5415.1	5526.8	5535.8	5445.8	5276.4	5107.3	4966.7	4830.0	4765.1	4748.9
12.5°	5283.7	5386.4	5328.7	5143.3	4871.4	4624.6	4446.3	4307.6	4246.4	4230.2
15°	5177.5	5247.7	5101.9	4810.0	4467.9	4206.8	4059.1	3956.5	3913.2	3900.7
17.5°	5121.6	5136.1	4869.4	4475.2	4111.3	3893.5	3801.5	3752.9	3736.7	3727.7
20°	5148.7	5047.8	4648.0	4163.6	3819.6	3666.5	3644.9	3632.4	3628.7	3623.4
22.5°	5283.7	5020.8	4444.4	3868.3	3563.9	3497.3	3515.3	3513.4	3509.9	3506.2
25°	5525.0	5044.2	4246.4	3587.3	3349.6	3335.1	3367.6	3367.6	3353.1	3353.1
27.5°	5843.7	5092.8	4024.9	3320.7	3155.1	3156.9	3182.0	3174.8	3158.6	3147.9
30°	6232.7	5123.3	3765.6	3081.2	2973.2	2966.0	2973.2	2942.6	2894.0	2890.4
32.5°	6630.7	5085.6	3464.8	2868.7	2780.5	2764.3	2758.9	2715.6	2659.8	2643.6
35°	6991.0	4946.9	3158.6	2699.5	2596.9	2560.8	2586.0	2571.6	2521.1	2508.6
37.5°	7253.8	4689.4	2883.2	2550.0	2465.3	2456.3	2472.5	2478.0	2418.6	2405.9
40°	7430.2	4340.0	2647.3	2423.9	2440.2	2405.9	2352.0	2314.1	2296.1	2290.7
42.5°	7572.5	3976.3	2449.1	2364.5	2445.5	2346.6	2229.4	2168.2	2200.6	2215.0
45°	7736.4	3621.5	2283.5	2290.7	2418.6	2278.0	2144.8	2085.4	2098.0	2101.6
47.5°	7961.6	3189.3	2105.2	2171.8	2328.6	2231.3	2092.7	2007.9	1948.5	1921.6
50°	8273.1	2677.8	1919.6	2038.6	2240.3	2196.9	2011.6	1921.6	1811.6	1786.5
52.5°	8489.2	2200.6	1766.6	1926.9	2161.0	2128.6	1946.7	1829.6	1714.4	1692.8
55°	8372.2	1827.9	1633.4	1802.7	2056.6	2043.9	1892.7	1736.0	1646.0	1628.0
57.5°	7786.9	1591.9	1530.7	1685.6	1928.8	1971.9	1820.7	1656.8	1591.9	1579.4
60°	6670.4	1444.3	1465.9	1606.3	1824.3	1899.9	1748.5	1613.5	1570.4	1561.4
62.5°	5175.6	1345.2	1417.3	1548.7	1743.2	1849.4	1709.1	1608.2	1591.9	1581.2
65°	3707.9	1266.0	1365.0	1491.1	1669.4	1802.7	1694.6	1600.9	1604.6	1595.5
67.5°	2519.4	1195.8	1302.1	1426.3	1597.4	1761.3	1674.8	1575.7	1620.8	1609.9
70°	1763.0	1127.3	1228.2	1343.5	1507.3	1703.6	1638.8	1538.0	1534.3	1491.1
72.5°	1375.9	1037.3	1127.3	1228.2	1392.1	1622.6	1566.8	1453.2	1393.8	1348.8
73°	1312.9	1015.7	1102.1	1203.0	1366.9	1602.8	1546.9	1429.8	1363.2	1321.8
75°	1085.9	922.0	1001.3	1091.3	1258.7	1509.1	1449.7	1323.6	1239.0	1213.8
77.5°	853.7	788.8	864.5	945.4	1109.3	1372.3	1305.6	1184.9	1138.2	1116.5
80°	632.1	653.7	720.3	792.3	961.7	1226.3	1167.0	1046.2	1255.2	1203.0
82.5°	444.8	495.3	556.4	621.2	806.8	1084.1	1012.1	887.8	918.5	763.6
85°	262.9	324.2	381.8	437.6	581.7	898.6	835.7	707.8	579.8	552.9
87.5°	153.1	180.1	196.3	253.9	399.8	677.1	588.9	524.0	300.8	203.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)