

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: P268939

Luminaire Tested: **GAN-AF-10-LED-U-T2-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268939
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-10-LED-U-T2-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40584.3 lumens
Efficiency: N/A
Efficacy: 96.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G5

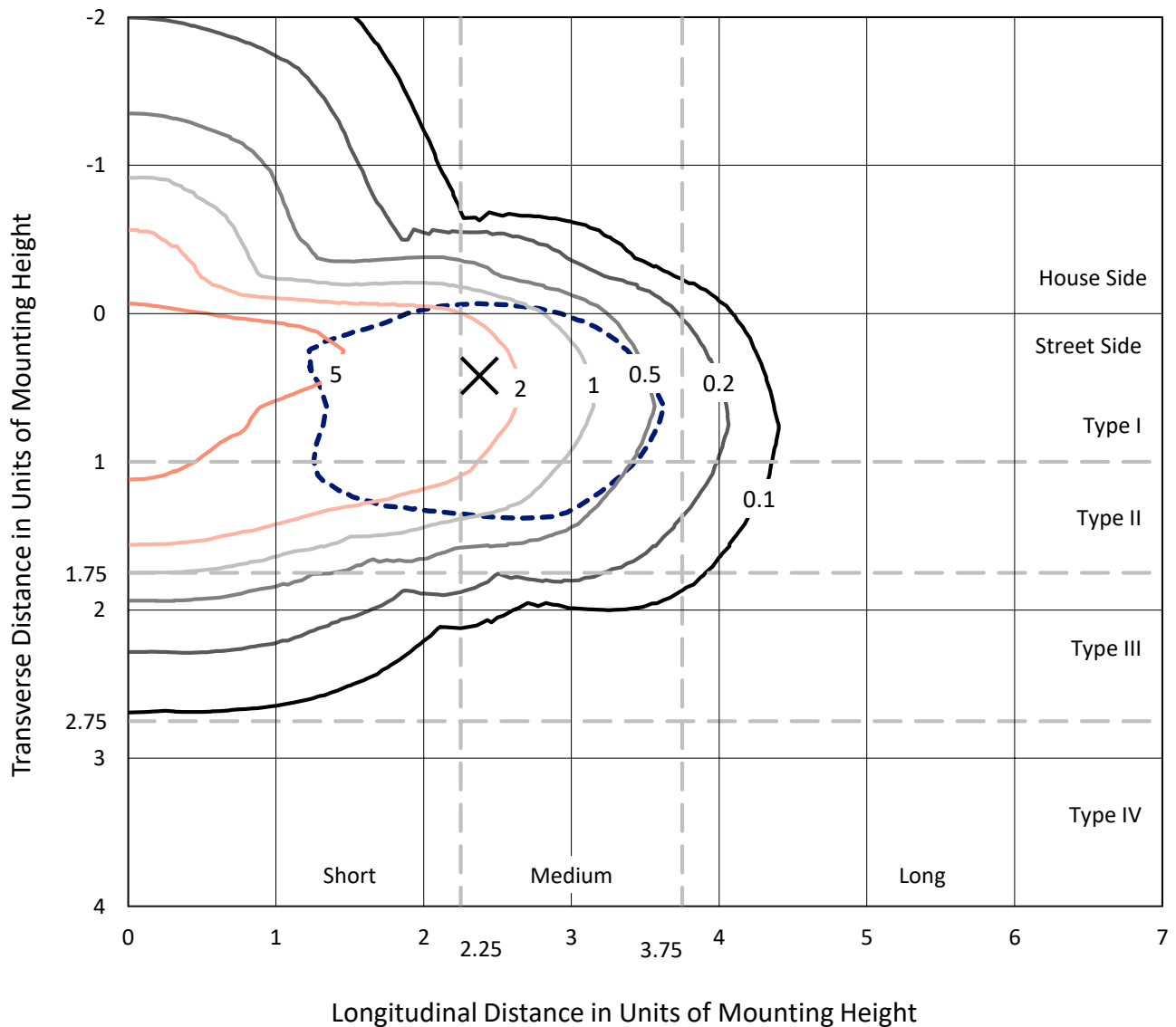
Input Watts (W): 419
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

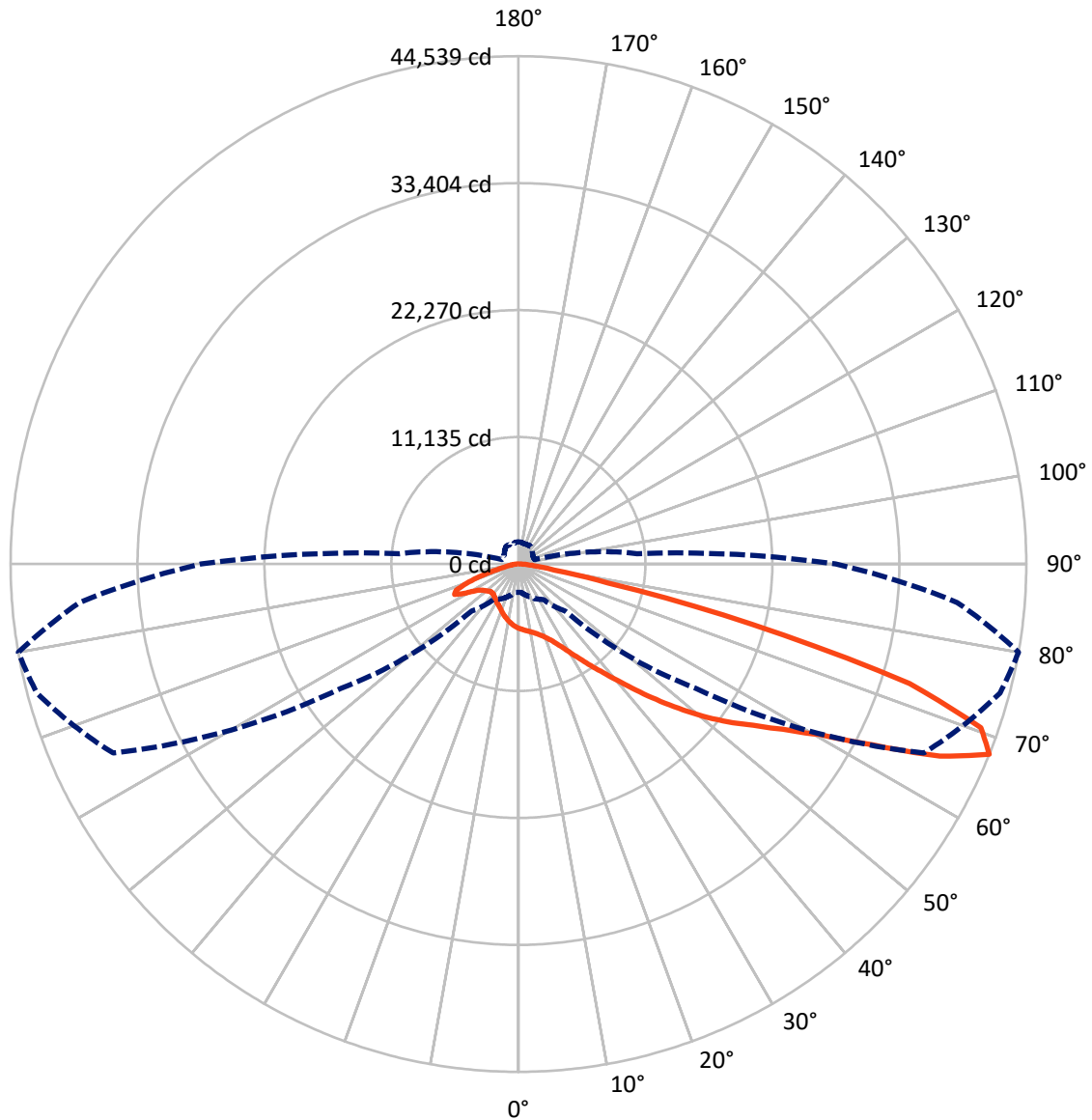
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 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	7474.1	0.0	7474.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	33110.2	0.0	33110.2
	% Fixture	81.6	0.0	81.6
Total	Lumens	40584.3	0.0	40584.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	520.1	1.3
10°-20°	1498.3	3.7
20°-30°	2480.0	6.1
30°-40°	4056.6	10.0
40°-50°	6549.8	16.1
50°-60°	9456.0	23.3
60°-70°	10435.3	25.7
70°-80°	4810.0	11.9
80°-90°	778.0	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°	40584.3	100.0
0°-180°	40584.3	100.0



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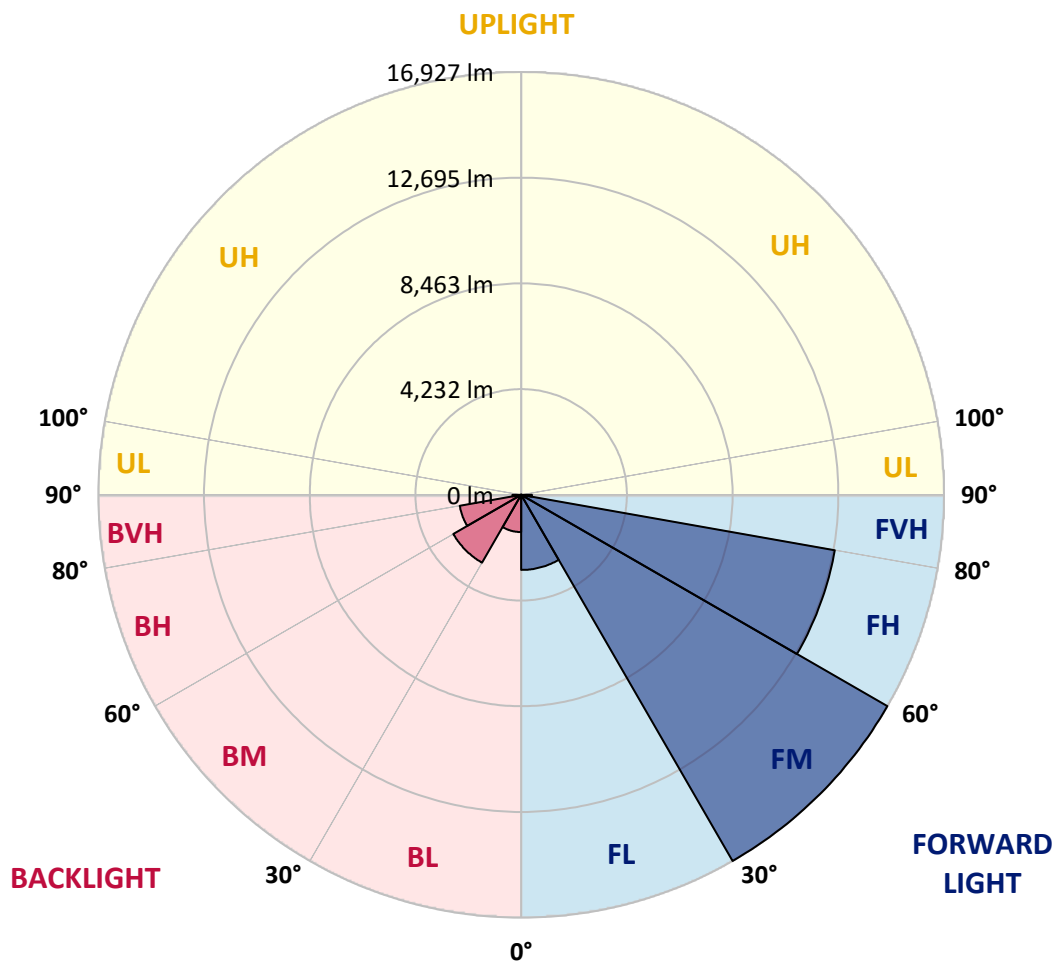
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3007.2	7.4			
FM	(30°-60°)	16926.7	41.7			
FH	(60°-80°)	12748.6	31.4			G5
FVH	(80°-90°)	427.7	1.1			G3/500
BL	(0°-30°)	1491.2	3.7	B3/2500		
BM	(30°-60°)	3135.8	7.7	B3/5000		
BH	(60°-80°)	2496.8	6.2	B3/2500		G3/2500
BVH	(80°-90°)	350.3	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-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	5638.3	5638.3	5638.3	5638.3	5638.3	5638.3	5638.3	5638.3	5638.3	5638.3	5638.3
2.5°	6167.9	6131.8	6137.8	6127.9	6097.9	6046.0	5990.0	5888.1	5782.2	5726.2	5682.3
5°	6683.3	6673.2	6659.3	6627.3	6551.3	6443.5	6309.6	6129.9	5936.0	5834.1	5736.2
7.5°	7068.9	7063.0	7044.9	7024.9	6951.1	6821.1	6619.3	6363.7	6081.9	5942.0	5790.1
10°	7100.8	7110.9	7124.8	7178.7	7188.7	7118.9	6913.0	6603.4	6233.8	6053.9	5860.2
12.5°	6829.2	6851.2	6905.0	7042.9	7188.7	7274.7	7168.8	6855.1	6411.6	6193.8	5947.9
15°	6469.6	6481.5	6547.4	6737.2	6999.0	7264.8	7364.7	7132.8	6641.3	6373.7	6079.9
17.5°	6315.7	6321.6	6367.5	6493.5	6737.2	7116.8	7474.4	7434.6	6923.1	6597.3	6241.8
20°	6237.7	6251.8	6317.7	6441.6	6595.4	6927.0	7490.4	7760.2	7258.8	6877.1	6445.5
22.5°	6459.5	6453.6	6477.5	6539.4	6669.2	6869.1	7478.5	8095.9	7686.3	7236.7	6711.2
25°	6977.0	6999.0	6957.1	6887.0	6929.0	7068.9	7542.3	8459.5	8221.7	7698.3	7058.9
27.5°	7714.3	7692.2	7630.4	7466.5	7380.6	7440.5	7754.2	8851.1	8887.0	8305.6	7518.5
30°	8449.5	8431.5	8371.6	8171.8	7996.0	7946.0	8165.9	9300.6	9680.2	9035.0	8082.0
32.5°	9212.7	9192.7	9136.8	8937.0	8725.2	8609.4	8751.2	9820.1	10615.4	9906.1	8745.2
35°	10153.8	10115.9	9998.0	9720.2	9512.4	9422.5	9488.4	10473.5	11694.2	10937.0	9550.4
37.5°	11038.9	11096.9	10977.0	10593.4	10323.6	10291.6	10365.6	11270.7	12857.1	12089.8	10475.5
40°	11928.1	11937.9	11830.0	11516.5	11238.8	11186.8	11372.5	12237.7	14229.7	13468.5	11600.4
42.5°	12847.1	12867.1	12685.2	12395.5	12191.7	12201.8	12413.5	13370.6	15804.2	15092.9	12895.0
45°	13935.9	13965.9	13766.2	13386.5	13200.8	13574.4	13486.4	14641.2	17530.3	16939.0	14381.5
47.5°	15074.8	15120.8	14968.9	14613.3	14381.5	14895.1	14559.4	16049.8	19388.5	18919.1	16013.9
50°	15696.3	15762.2	15910.1	15884.0	15834.1	15748.1	15756.2	17560.3	21304.7	20981.0	17692.2
52.5°	15362.5	15360.6	15900.0	16555.4	17254.6	17306.6	17214.7	19152.8	23094.7	22996.9	19272.6
55°	13836.1	13940.0	14757.1	16025.9	17936.0	19128.8	19400.5	20977.0	24853.0	24967.0	20877.0
57.5°	11294.7	11380.5	12483.4	14251.7	17017.0	20211.7	22509.4	23628.3	26819.1	27350.5	23012.9
60°	7660.2	7764.2	8933.0	11056.9	14543.4	19608.4	25468.3	28359.5	29172.6	30381.4	26009.9
62.5°	4501.4	4595.4	5548.4	6975.0	10239.7	16805.1	26767.1	35090.8	32910.9	34954.8	30581.3
65°	3099.0	3162.8	3626.4	4341.7	5884.1	11318.6	25156.8	39738.1	38663.1	40621.1	35882.0
67.5°	2493.4	2485.5	2853.1	3340.6	3788.2	5836.2	19022.9	39212.6	43722.0	44539.3	38633.1
70°	2054.0	2045.9	2295.7	2699.2	3027.0	3286.7	10361.6	33090.8	42691.1	43022.7	36099.6
72.5°	1718.3	1726.3	1886.1	2185.8	2483.5	2475.5	4553.4	23278.6	33584.3	35877.9	28777.1
75°	1450.6	1454.5	1560.4	1772.3	2015.9	1994.0	2469.5	12611.3	19522.3	21118.8	15952.0
77.5°	1234.8	1238.8	1306.7	1424.5	1598.4	1590.4	1802.2	5448.5	8143.9	8044.0	5456.6
80°	1101.0	1101.0	1132.9	1154.9	1250.7	1214.8	1336.7	2617.4	3442.6	3178.8	2177.9
82.5°	863.1	867.1	1063.0	1054.9	985.0	939.1	939.1	1542.5	1824.2	1686.3	1274.8
85°	485.5	483.5	685.2	827.2	867.1	661.3	655.4	863.1	992.9	875.0	617.3
87.5°	207.8	211.8	317.7	367.6	491.6	411.7	405.6	445.6	505.4	437.6	285.8
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°	5638.3	5638.3	5638.3	5638.3	5638.3	5638.3	5638.3	5638.3	5638.3	5638.3	5638.3
2.5°	5640.4	5588.4	5474.5	5332.7	5204.8	5120.9	5044.9	4935.1	4941.0	4865.1	4809.2
5°	5636.3	5528.4	5264.6	4951.0	4649.4	4431.6	4267.7	4119.8	4084.0	4013.9	3972.0
7.5°	5640.4	5464.5	5020.9	4519.5	4145.9	3870.1	3730.2	3652.2	3634.4	3610.4	3612.4
10°	5654.3	5406.5	4753.2	4115.9	3724.3	3542.5	3508.5	3532.4	3560.4	3568.3	3570.5
12.5°	5686.4	5354.5	4459.5	3756.3	3460.5	3404.5	3462.5	3544.4	3598.4	3624.3	3622.3
15°	5758.2	5314.6	4177.7	3474.6	3314.7	3344.6	3452.5	3568.3	3646.3	3682.3	3684.3
17.5°	5836.2	5256.7	3888.1	3258.7	3206.8	3282.6	3416.6	3552.4	3648.3	3688.4	3696.3
20°	5938.1	5184.7	3584.3	3096.8	3104.9	3190.8	3316.6	3452.5	3558.5	3592.4	3608.4
22.5°	6072.0	5106.9	3318.7	2965.0	2989.0	3055.0	3152.8	3270.6	3362.6	3378.6	3392.5
25°	6251.8	5023.0	3106.9	2845.1	2855.2	2893.1	2959.0	3028.9	3092.9	3074.9	3088.9
27.5°	6493.5	4951.0	2949.0	2735.2	2717.3	2725.3	2759.2	2781.2	2815.2	2765.3	2771.2
30°	6777.3	4873.0	2827.1	2639.3	2589.5	2575.4	2583.3	2595.5	2621.3	2553.4	2543.5
32.5°	7106.9	4779.3	2713.3	2555.4	2485.5	2457.6	2461.5	2493.4	2593.3	2551.5	2529.4
35°	7490.4	4673.3	2593.3	2463.5	2415.5	2375.6	2371.6	2471.4	2769.2	2743.2	2723.2
37.5°	7939.9	4567.4	2473.6	2359.7	2363.6	2319.7	2305.7	2419.6	2803.3	2701.4	2687.3
40°	8511.4	4511.5	2371.6	2249.7	2299.8	2293.7	2265.7	2323.6	2579.5	2393.7	2369.5
42.5°	9218.8	4519.5	2295.7	2131.9	2223.8	2287.8	2243.7	2245.8	2337.7	2197.9	2175.9
45°	10091.9	4613.3	2241.7	2038.0	2137.8	2281.8	2235.7	2203.8	2211.7	2137.8	2125.8
47.5°	11110.9	4807.2	2203.8	1960.0	2056.0	2259.7	2233.7	2191.9	2173.8	2133.8	2123.9
50°	12243.7	5088.9	2175.9	1886.1	1982.0	2223.8	2235.7	2179.7	2159.9	2143.8	2137.8
52.5°	13356.5	5410.5	2133.8	1822.1	1924.1	2179.7	2241.7	2167.8	2145.8	2133.8	2127.8
55°	14597.4	5812.2	2070.0	1768.3	1876.1	2123.9	2241.7	2149.9	2125.8	2127.8	2125.8
57.5°	16273.7	6461.5	1994.0	1722.3	1818.2	2056.0	2203.8	2129.8	2099.9	2101.9	2103.9
60°	18893.1	7606.4	1902.2	1676.2	1746.2	1976.0	2151.8	2086.0	2056.0	2063.9	2065.9
62.5°	22745.2	9286.7	1782.1	1608.3	1670.3	1890.2	2079.9	2030.0	1999.9	2020.0	2020.0
65°	26749.1	10769.2	1634.3	1522.4	1590.4	1796.3	1989.9	1960.0	1930.1	1976.0	1974.0
67.5°	27826.1	10437.4	1486.5	1428.6	1510.5	1692.2	1882.0	1866.0	1850.1	1930.1	1926.1
70°	24719.2	8379.6	1350.6	1332.6	1422.6	1580.4	1766.2	1766.2	1756.2	1816.2	1802.2
72.5°	18833.1	5942.0	1220.7	1230.8	1322.7	1458.6	1640.3	1654.4	1638.4	1668.3	1656.4
75°	10081.9	3400.5	1090.9	1118.8	1198.8	1334.6	1500.4	1514.5	1504.5	1502.4	1508.4
77.5°	3350.7	1662.4	955.1	998.9	1069.0	1206.9	1354.6	1376.7	1352.7	1348.6	1346.6
80°	1492.5	1045.0	805.2	863.1	925.1	1061.0	1200.8	1218.8	1192.8	1228.7	1182.8
82.5°	959.0	687.4	645.3	709.3	769.2	915.1	1047.0	1050.9	1026.9	1192.8	1017.1
85°	465.5	425.5	485.5	543.5	595.3	719.3	867.1	869.1	809.3	737.2	711.3
87.5°	231.8	247.8	323.7	375.6	401.6	493.4	631.4	619.4	593.4	539.4	497.5
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)