

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: P191375

Luminaire Tested: **GAN-AF-07-LED-U-T2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191375
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-07-LED-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42265.3 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

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

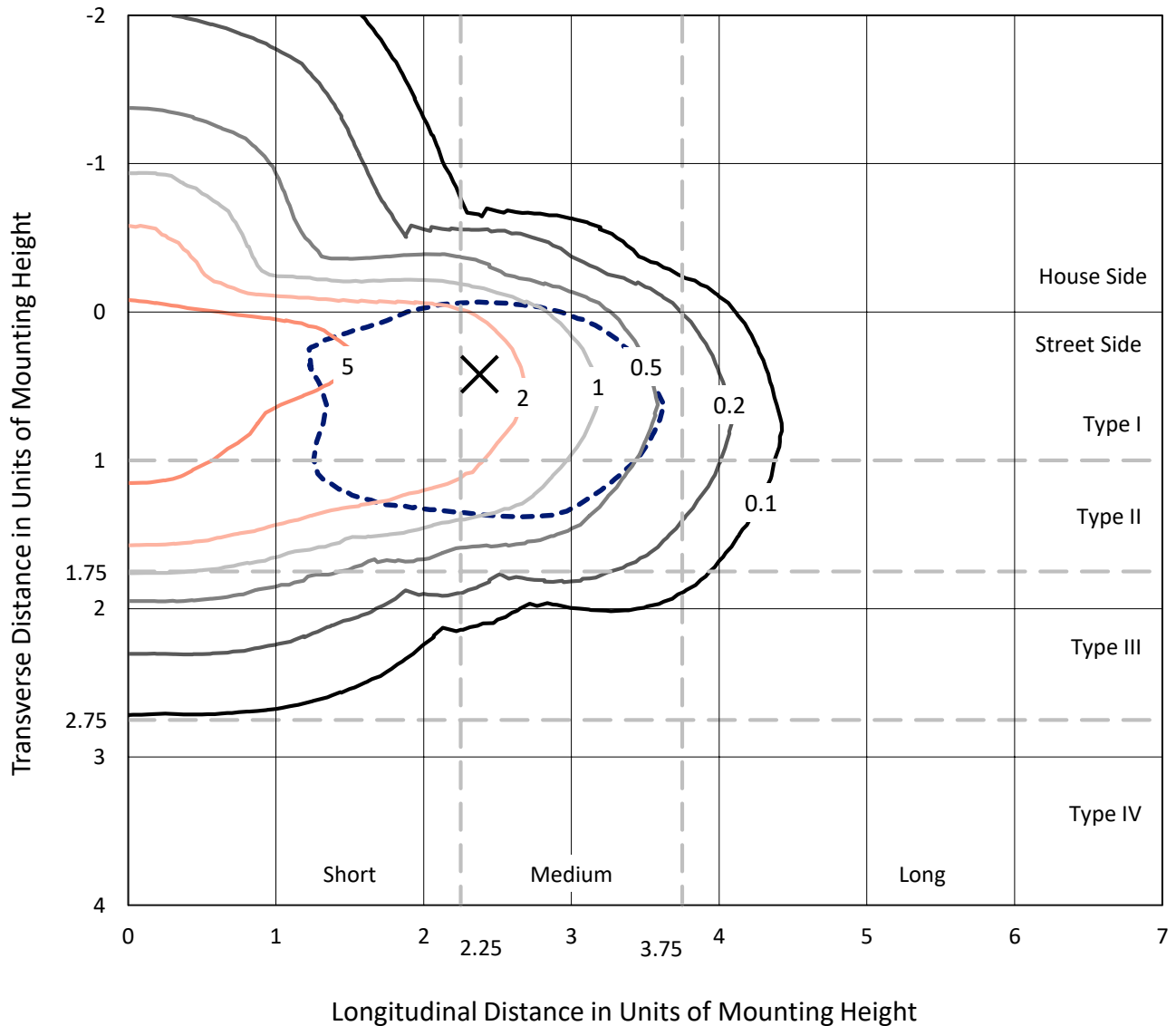


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

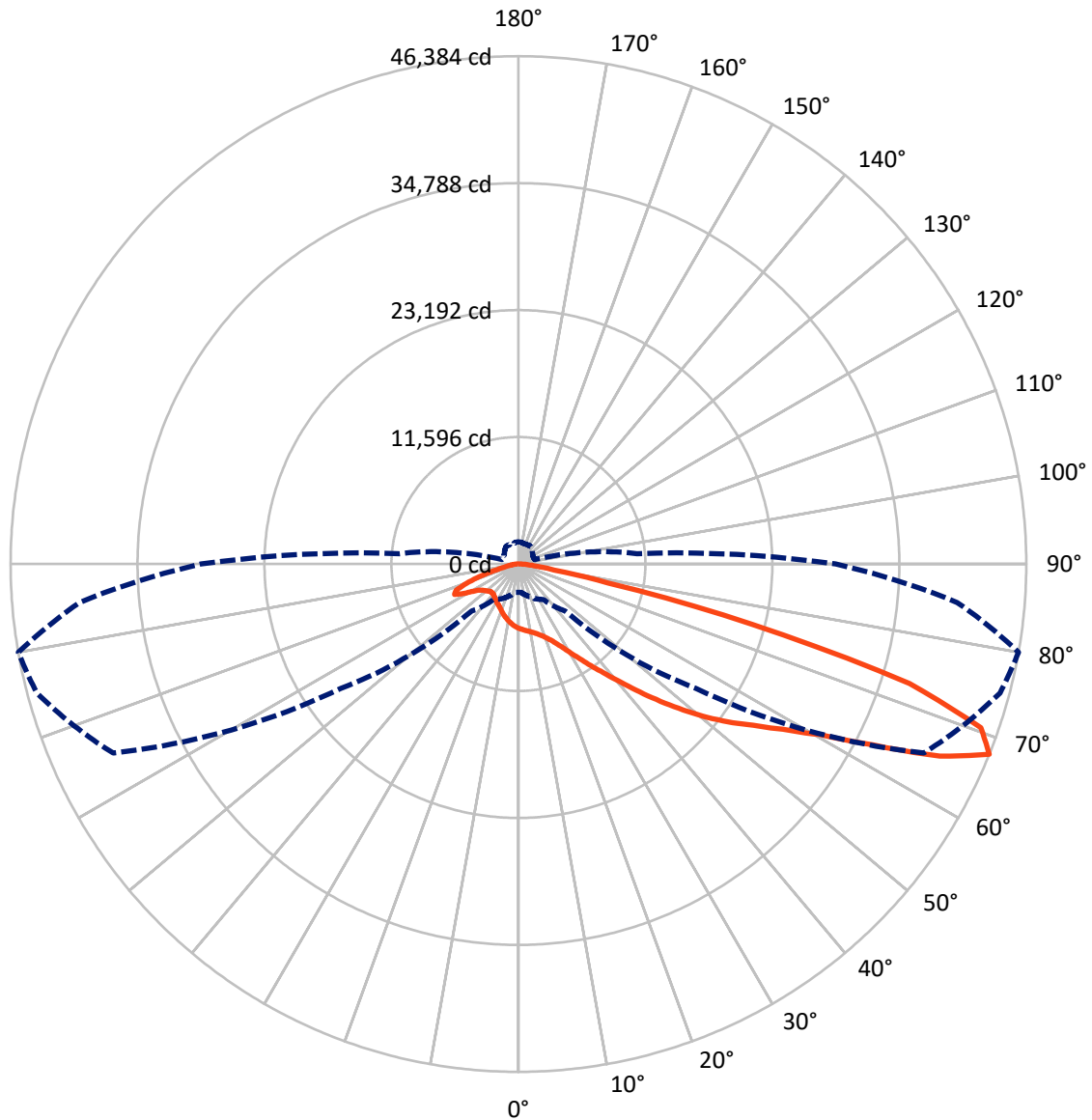


Based on 30 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Medium - Full Cutoff

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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	7783.7	0.0	7783.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	34481.6	0.0	34481.6
	% Fixture	81.6	0.0	81.6
Total	Lumens	42265.3	0.0	42265.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	541.7	1.3
10°-20°	1560.3	3.7
20°-30°	2582.7	6.1
30°-40°	4224.7	10.0
40°-50°	6821.1	16.1
50°-60°	9847.7	23.3
60°-70°	10867.6	25.7
70°-80°	5009.3	11.9
80°-90°	810.2	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°	42265.3	100.0
0°-180°	42265.3	100.0



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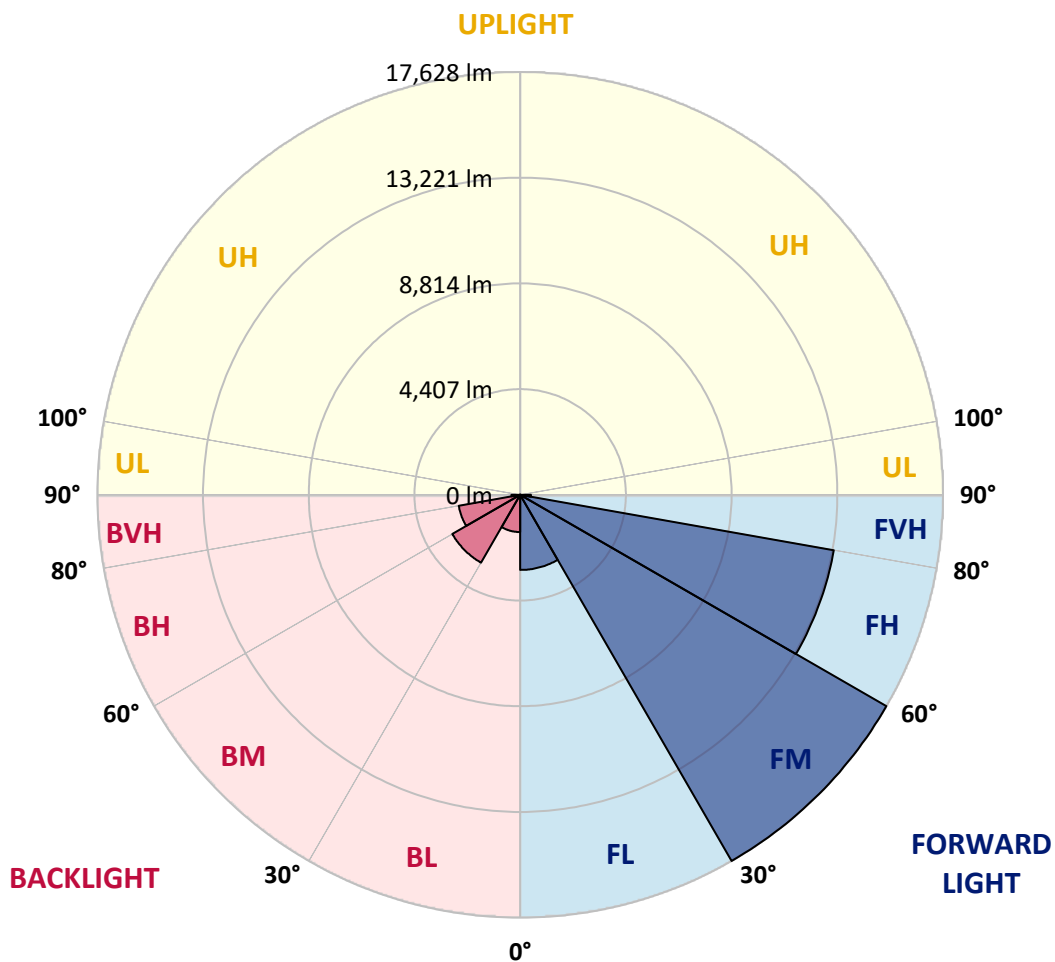
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3131.8	7.4			
FM	(30°-60°)	17627.8	41.7			
FH	(60°-80°)	13276.6	31.4			G5
FVH	(80°-90°)	445.4	1.1			G3/500
BL	(0°-30°)	1552.9	3.7	B3/2500		
BM	(30°-60°)	3265.7	7.7	B3/5000		
BH	(60°-80°)	2600.2	6.2	B4/5000		G4/5000
BVH	(80°-90°)	364.8	0.9			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	5871.8	5871.8	5871.8	5871.8	5871.8	5871.8	5871.8	5871.8	5871.8	5871.8	5871.8
2.5°	6423.3	6385.8	6392.0	6381.7	6350.5	6296.4	6238.1	6132.0	6021.7	5963.4	5917.7
5°	6960.1	6949.7	6935.1	6901.8	6822.8	6710.5	6571.0	6383.7	6181.9	6075.8	5973.8
7.5°	7361.7	7355.4	7336.7	7315.9	7238.9	7103.7	6893.6	6627.2	6333.8	6188.1	6030.0
10°	7395.0	7405.3	7420.0	7476.1	7486.6	7413.7	7199.4	6876.9	6492.0	6304.7	6102.8
12.5°	7112.0	7134.9	7191.0	7334.7	7486.6	7576.0	7465.7	7139.1	6677.1	6450.3	6194.4
15°	6737.5	6749.9	6818.6	7016.3	7288.8	7565.6	7669.7	7428.3	6916.4	6637.6	6331.8
17.5°	6577.3	6583.5	6631.4	6762.4	7016.3	7411.6	7784.0	7742.5	7209.8	6870.6	6500.2
20°	6496.1	6510.7	6579.3	6708.3	6868.6	7214.0	7800.7	8081.6	7559.4	7162.0	6712.5
22.5°	6727.0	6720.8	6745.7	6810.3	6945.5	7153.6	7788.2	8431.2	8004.7	7536.5	6989.2
25°	7266.0	7288.8	7245.2	7172.3	7216.0	7361.7	7854.8	8809.9	8562.3	8017.2	7351.3
27.5°	8033.7	8010.9	7946.4	7775.8	7686.2	7748.8	8075.4	9217.7	9255.1	8649.7	7829.9
30°	8799.5	8780.8	8718.3	8510.2	8327.1	8275.2	8504.0	9685.9	10081.2	9409.1	8416.6
32.5°	9594.4	9573.5	9515.3	9307.2	9086.7	8966.0	9113.7	10226.8	11055.0	10316.4	9107.4
35°	10574.3	10534.9	10412.1	10122.8	9906.5	9812.9	9881.5	10907.3	12178.6	11390.0	9945.9
37.5°	11496.1	11556.5	11431.7	11032.1	10751.2	10718.0	10794.9	11737.5	13389.6	12590.6	10909.4
40°	12422.1	12432.4	12320.1	11993.5	11704.2	11650.1	11843.6	12744.6	14819.1	14026.3	12080.8
42.5°	13379.2	13400.0	13210.7	12908.9	12696.8	12707.1	12927.6	13924.4	16458.8	15717.9	13429.2
45°	14513.2	14544.4	14336.3	13941.0	13747.5	14136.6	14045.0	15247.7	18256.5	17640.6	14977.2
47.5°	15699.2	15747.1	15589.0	15218.6	14977.2	15512.0	15162.4	16714.6	20191.6	19702.6	16677.2
50°	16346.3	16415.0	16569.0	16541.9	16490.0	16400.5	16408.7	18287.7	22187.0	21849.9	18425.1
52.5°	15998.8	15996.8	16558.6	17241.1	17969.4	18023.5	17927.7	19946.1	24051.4	23949.4	20070.9
55°	14409.2	14517.4	15368.4	16689.6	18678.9	19921.0	20204.1	21845.8	25882.4	26001.1	21741.8
57.5°	11762.5	11851.9	13000.5	14842.0	17721.7	21048.8	23441.7	24607.0	27929.9	28483.3	23966.1
60°	7977.6	8085.8	9303.0	11514.8	15145.8	20420.5	26523.3	29534.1	30381.0	31639.9	27087.2
62.5°	4687.9	4785.8	5778.2	7263.9	10663.9	17501.2	27875.8	36544.2	34274.1	36402.7	31847.9
65°	3227.2	3293.8	3776.5	4521.4	6127.8	11787.5	26198.7	41384.0	40264.6	42303.7	37368.2
67.5°	2596.8	2588.5	2971.3	3479.1	3945.1	6077.9	19810.8	40836.8	45533.1	46384.1	40233.4
70°	2139.0	2130.7	2390.7	2811.1	3152.3	3422.8	10790.8	34461.4	44459.4	44804.7	37595.0
72.5°	1789.4	1797.7	1964.3	2276.4	2586.3	2578.0	4742.0	24242.8	34975.3	37364.0	29969.0
75°	1510.6	1514.8	1625.1	1845.6	2099.5	2076.6	2571.8	13133.7	20331.0	21993.5	16612.7
77.5°	1286.0	1290.0	1360.8	1483.6	1664.6	1656.3	1876.8	5674.2	8481.2	8377.0	5682.5
80°	1146.5	1146.5	1179.8	1202.7	1302.5	1265.1	1392.0	2725.8	3585.1	3310.5	2268.0
82.5°	898.9	903.1	1106.9	1098.6	1025.8	977.9	977.9	1606.3	1899.7	1756.2	1327.5
85°	505.6	503.5	713.7	861.4	903.1	688.8	682.5	898.9	1034.1	911.3	642.9
87.5°	216.4	220.5	330.8	382.9	511.9	428.6	422.4	464.0	526.4	455.7	297.6
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°	5871.8	5871.8	5871.8	5871.8	5871.8	5871.8	5871.8	5871.8	5871.8	5871.8	5871.8
2.5°	5874.0	5819.9	5701.2	5553.5	5420.3	5332.9	5253.9	5139.4	5145.6	5066.6	5008.4
5°	5869.8	5757.5	5482.8	5156.1	4841.9	4615.1	4444.5	4290.5	4253.0	4180.2	4136.5
7.5°	5874.0	5690.9	5228.9	4706.7	4317.6	4030.4	3884.8	3803.6	3784.9	3760.0	3762.0
10°	5888.5	5630.5	4950.1	4286.4	3878.5	3689.2	3653.8	3678.7	3707.9	3716.2	3718.3
12.5°	5921.9	5576.4	4644.2	3911.8	3603.9	3545.5	3605.9	3691.2	3747.5	3774.5	3772.4
15°	5996.7	5534.8	4350.8	3618.4	3451.9	3483.1	3595.6	3716.2	3797.4	3834.8	3836.9
17.5°	6077.9	5474.4	4049.1	3393.7	3339.6	3418.7	3558.1	3699.6	3799.4	3841.1	3849.4
20°	6183.9	5399.5	3732.8	3225.2	3233.4	3323.0	3454.0	3595.6	3705.8	3741.1	3757.8
22.5°	6323.4	5318.4	3456.1	3087.9	3112.8	3181.5	3283.5	3406.2	3501.9	3518.5	3533.1
25°	6510.7	5231.0	3235.6	2963.0	2973.4	3012.9	3081.6	3154.4	3221.0	3202.2	3216.9
27.5°	6762.4	5156.1	3071.2	2848.5	2829.8	2838.2	2873.5	2896.4	2931.8	2879.7	2885.9
30°	7058.0	5075.0	2944.3	2748.7	2696.6	2682.1	2690.4	2702.9	2729.9	2659.2	2648.8
32.5°	7401.3	4977.2	2825.7	2661.3	2588.5	2559.3	2563.5	2596.8	2700.8	2657.1	2634.2
35°	7800.7	4866.9	2700.8	2565.6	2515.6	2474.0	2469.8	2573.8	2883.9	2856.9	2836.0
37.5°	8268.9	4756.6	2576.0	2457.3	2461.5	2415.8	2401.2	2519.8	2919.3	2813.2	2798.6
40°	8864.0	4698.3	2469.8	2343.0	2394.9	2388.7	2359.5	2419.9	2686.3	2492.7	2467.8
42.5°	9600.6	4706.7	2390.7	2220.1	2315.9	2382.5	2336.7	2338.8	2434.5	2288.9	2265.9
45°	10509.9	4804.5	2334.6	2122.3	2226.5	2376.2	2328.3	2295.1	2303.4	2226.5	2213.9
47.5°	11571.0	5006.3	2295.1	2041.2	2141.1	2353.3	2326.3	2282.6	2263.9	2222.3	2211.8
50°	12750.9	5299.7	2265.9	1964.3	2064.1	2315.9	2328.3	2270.1	2249.3	2232.7	2226.5
52.5°	13909.8	5634.6	2222.3	1897.7	2003.8	2270.1	2334.6	2257.7	2234.7	2222.3	2216.0
55°	15202.0	6052.9	2155.7	1841.4	1953.8	2211.8	2334.6	2238.9	2213.9	2216.0	2213.9
57.5°	16947.7	6729.2	2076.6	1793.6	1893.5	2141.1	2295.1	2218.1	2186.9	2188.9	2191.1
60°	19675.5	7921.4	1980.8	1745.8	1818.6	2057.9	2241.0	2172.3	2141.1	2149.4	2151.5
62.5°	23687.2	9671.3	1856.0	1675.0	1739.5	1968.4	2166.1	2114.0	2082.8	2103.6	2103.6
65°	27857.1	11215.2	1702.1	1585.6	1656.3	1870.6	2072.4	2041.2	2010.0	2057.9	2055.8
67.5°	28978.6	10869.9	1548.0	1487.8	1573.1	1762.4	1960.1	1943.4	1926.7	2010.0	2005.8
70°	25743.1	8726.7	1406.6	1387.8	1481.5	1645.8	1839.4	1839.4	1828.9	1891.4	1876.8
72.5°	19613.1	6188.1	1271.3	1281.8	1377.5	1519.0	1708.3	1722.9	1706.2	1737.4	1724.9
75°	10499.5	3541.5	1136.1	1165.2	1248.4	1390.0	1562.7	1577.2	1566.9	1564.7	1570.9
77.5°	3489.4	1731.1	994.6	1040.3	1113.2	1256.8	1410.8	1433.7	1408.7	1404.5	1402.5
80°	1554.3	1088.2	838.5	898.9	963.4	1104.9	1250.6	1269.3	1242.2	1279.7	1231.8
82.5°	998.8	715.8	672.1	738.7	801.1	953.0	1090.4	1094.5	1069.5	1242.2	1059.1
85°	484.8	443.2	505.6	566.0	620.1	749.1	903.1	905.1	842.7	767.8	740.7
87.5°	241.4	258.0	337.1	391.2	418.2	513.9	657.6	645.1	618.0	561.8	518.1
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)