

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: P193107

Luminaire Tested: **GAN-AF-09-LED-U-T2-7030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193107
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-09-LED-U-T2-7030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40805 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 374
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

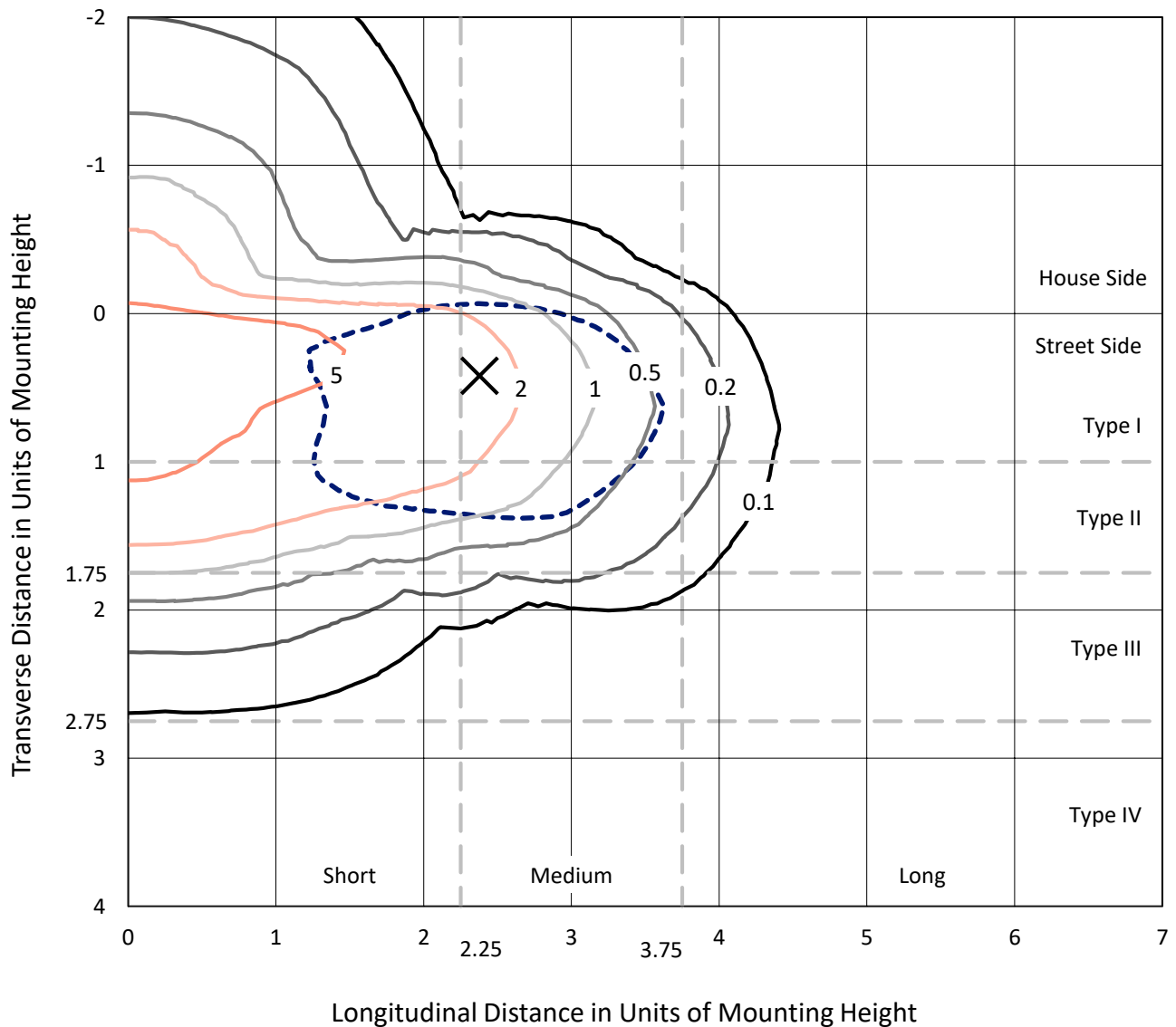


REPORT NUMBER: P193107

CATALOG NUMBER: GAN-AF-09-LED-U-T2-7030-800-ADJ

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

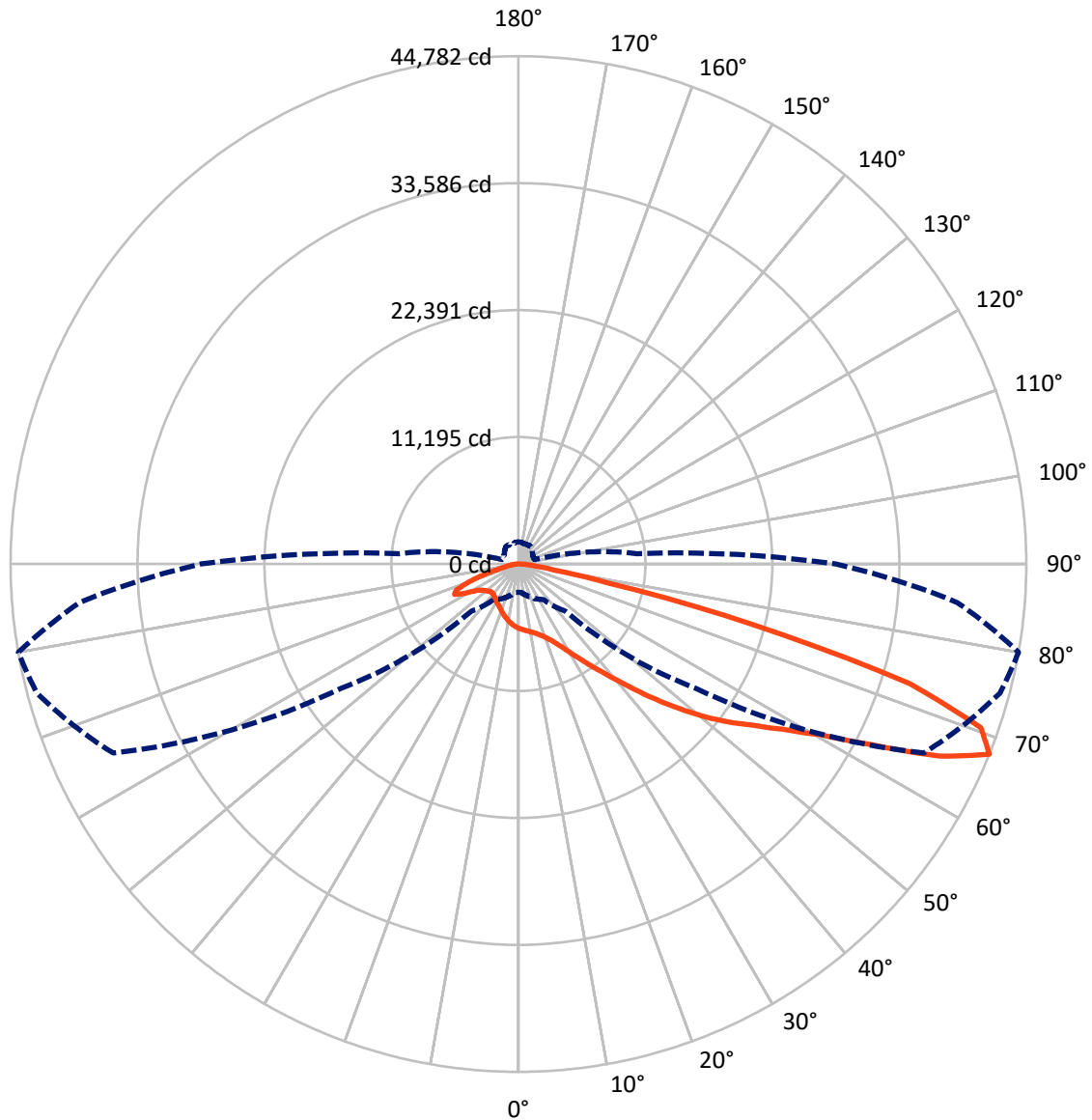


Based on 30 foot mounting height. Maximum calculated value = 7.7 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P193107

CATALOG NUMBER: GAN-AF-09-LED-U-T2-7030-800-ADJ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P193107

CATALOG NUMBER: GAN-AF-09-LED-U-T2-7030-800-ADJ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7514.7	0.0	7514.7
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	33290.3	0.0	33290.3
	% Fixture	81.6	0.0	81.6
Total	Lumens	40805.0	0.0	40805.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	522.9	1.3
10°-20°	1506.4	3.7
20°-30°	2493.5	6.1
30°-40°	4078.7	10.0
40°-50°	6585.5	16.1
50°-60°	9507.5	23.3
60°-70°	10492.1	25.7
70°-80°	4836.2	11.9
80°-90°	782.2	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°	40805.0	100.0
0°-180°	40805.0	100.0



REPORT NUMBER: P193107

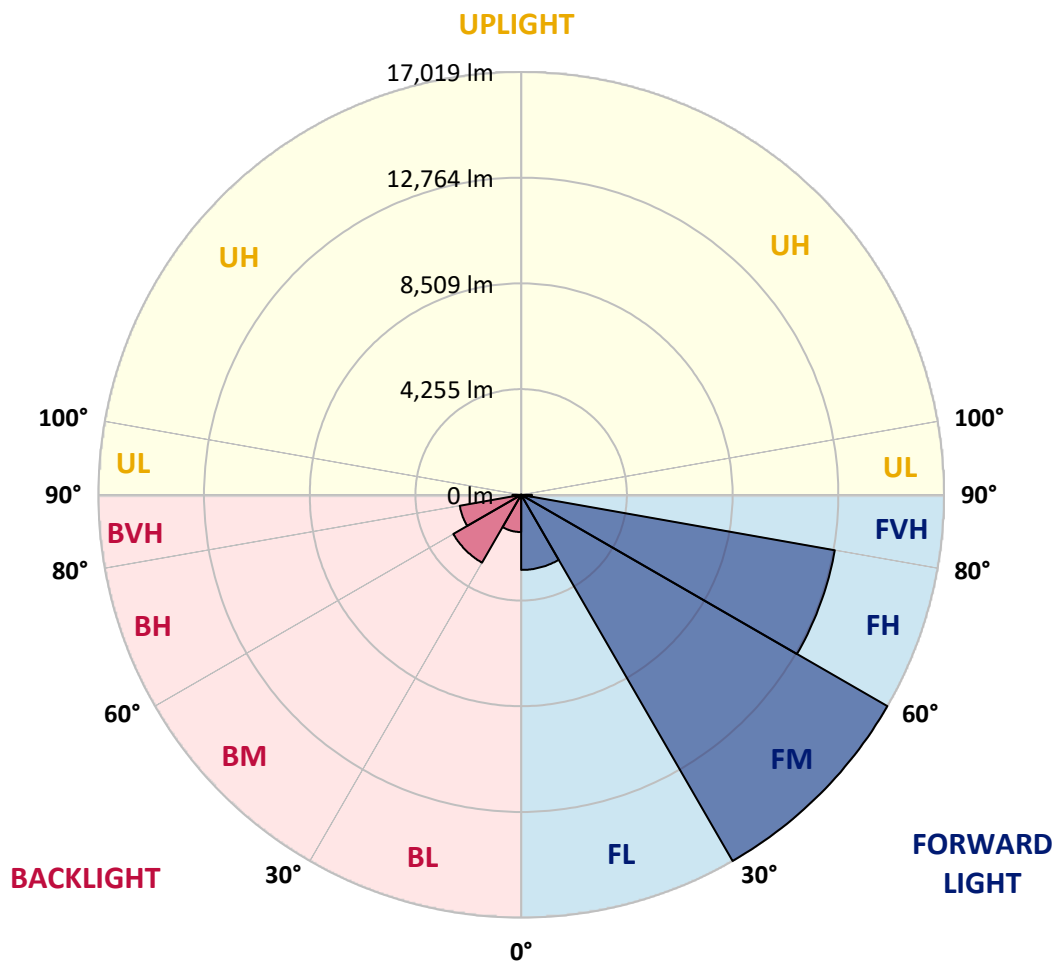
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3023.6	7.4			
FM (30°-60°)	17018.7	41.7			
FH (60°-80°)	12817.9	31.4			G5
FVH (80°-90°)	430.1	1.1			G3/500
BL (0°-30°)	1499.3	3.7	B3/2500		
BM (30°-60°)	3152.9	7.7	B3/5000		
BH (60°-80°)	2510.4	6.2	B4/5000		G4/5000
BVH (80°-90°)	352.2	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





REPORT NUMBER: P193107

CATALOG NUMBER: GAN-AF-09-LED-U-T2-7030-800-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	5669.0	5669.0	5669.0	5669.0	5669.0	5669.0	5669.0	5669.0	5669.0	5669.0	5669.0
2.5°	6201.3	6165.2	6171.2	6161.1	6131.1	6078.8	6022.6	5920.1	5813.6	5757.4	5713.1
5°	6719.7	6709.6	6695.5	6663.4	6587.0	6478.5	6344.0	6163.2	5968.3	5865.9	5767.5
7.5°	7107.4	7101.3	7083.3	7063.2	6988.9	6858.2	6655.3	6398.2	6115.0	5974.4	5821.7
10°	7139.5	7149.5	7163.6	7217.8	7227.9	7157.6	6950.6	6639.2	6267.6	6086.9	5892.1
12.5°	6866.3	6888.4	6942.7	7081.2	7227.9	7314.3	7207.9	6892.4	6446.4	6227.4	5980.5
15°	6504.7	6516.8	6583.1	6773.8	7037.1	7304.2	7404.7	7171.7	6677.5	6408.3	6112.9
17.5°	6350.0	6356.0	6402.3	6528.8	6773.8	7155.6	7515.2	7475.0	6960.7	6633.2	6275.7
20°	6271.7	6285.6	6352.0	6476.6	6631.3	6964.7	7531.2	7802.4	7298.2	6914.5	6480.6
22.5°	6494.7	6488.6	6512.7	6575.0	6705.6	6906.5	7519.2	8140.0	7728.1	7276.1	6747.8
25°	7015.0	7037.1	6994.9	6924.6	6966.7	7107.4	7583.4	8505.5	8266.4	7740.2	7097.3
27.5°	7756.2	7734.1	7671.8	7507.1	7420.8	7481.0	7796.4	8899.2	8935.4	8350.8	7559.3
30°	8495.5	8477.4	8417.2	8216.3	8039.6	7989.2	8210.2	9351.3	9733.0	9084.1	8125.8
32.5°	9262.9	9242.8	9186.5	8985.6	8772.8	8656.2	8798.8	9873.5	10673.1	9960.0	8792.7
35°	10209.0	10170.8	10052.4	9773.1	9564.2	9473.8	9540.1	10530.4	11757.8	10996.5	9602.4
37.5°	11099.0	11157.2	11036.8	10651.0	10379.7	10347.6	10422.0	11332.1	12927.0	12155.6	10532.5
40°	11993.0	12003.0	11894.5	11579.1	11299.8	11247.5	11434.4	12304.2	14307.1	13541.7	11663.4
42.5°	12916.9	12937.1	12754.3	12462.9	12258.2	12268.0	12481.0	13443.3	15890.1	15174.9	12965.2
45°	14011.9	14042.0	13841.1	13459.4	13272.6	13648.2	13559.8	14720.9	17625.7	17031.2	14459.8
47.5°	15156.9	15203.1	15050.4	14692.8	14459.8	14976.0	14638.5	16137.1	19494.0	19021.9	16101.0
50°	15781.6	15847.9	15996.5	15970.4	15920.2	15833.9	15841.9	17655.9	21420.5	21095.0	17788.5
52.5°	15446.1	15444.2	15986.5	16645.4	17348.5	17400.7	17308.3	19257.0	23220.5	23122.0	19377.4
55°	13911.3	14015.8	14837.4	16113.1	18033.6	19232.8	19506.0	21091.1	24988.2	25102.8	20990.6
57.5°	11356.1	11442.5	12551.3	14329.3	17109.5	20321.6	22631.9	23756.8	26964.9	27499.4	23138.1
60°	7702.0	7806.5	8981.6	11117.0	14622.5	19715.0	25607.0	28513.8	29331.4	30546.7	26151.4
62.5°	4525.9	4620.3	5578.6	7013.0	10295.4	16896.5	26912.7	35281.7	33089.9	35145.0	30747.6
65°	3115.7	3180.0	3646.1	4365.2	5916.1	11380.2	25293.6	39954.3	38873.5	40842.2	36077.2
67.5°	2507.1	2499.0	2868.6	3358.8	3808.8	5867.9	19126.4	39425.8	43959.9	44781.5	38843.3
70°	2065.1	2057.1	2308.2	2714.0	3043.4	3304.5	10418.0	33270.7	42923.4	43256.9	36296.2
72.5°	1727.6	1735.7	1896.4	2197.6	2497.0	2488.9	4578.2	23405.3	33767.0	36073.1	28933.6
75°	1458.4	1462.4	1569.0	1781.9	2027.0	2004.8	2482.9	12680.0	19628.7	21233.7	16038.7
77.5°	1241.5	1245.4	1313.9	1432.3	1607.1	1599.0	1811.9	5478.2	8188.1	8087.7	5486.2
80°	1106.9	1106.9	1139.0	1161.1	1257.6	1221.4	1343.9	2631.6	3461.3	3196.1	2189.7
82.5°	867.8	871.9	1068.7	1060.7	990.3	944.2	944.2	1550.8	1834.1	1695.4	1281.6
85°	488.2	486.1	689.0	831.7	871.9	665.0	659.0	867.8	998.4	879.9	620.7
87.5°	208.9	212.9	319.4	369.7	494.2	413.9	407.7	448.0	508.3	440.0	287.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193107

CATALOG NUMBER: GAN-AF-09-LED-U-T2-7030-800-ADJ

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5669.0	5669.0	5669.0	5669.0	5669.0	5669.0	5669.0	5669.0	5669.0	5669.0	5669.0
2.5°	5671.0	5618.7	5504.3	5361.7	5233.1	5148.8	5072.4	4961.9	4967.9	4891.5	4835.4
5°	5666.9	5558.6	5293.4	4978.0	4674.6	4455.7	4290.9	4142.2	4106.1	4035.8	3993.7
7.5°	5671.0	5494.2	5048.4	4544.1	4168.3	3891.2	3750.6	3672.2	3654.0	3630.0	3632.0
10°	5685.1	5435.9	4779.1	4138.3	3744.6	3561.8	3527.6	3551.7	3579.8	3587.8	3589.8
12.5°	5717.2	5383.8	4483.8	3776.6	3479.4	3423.1	3481.3	3563.7	3618.0	3644.2	3642.0
15°	5789.5	5343.6	4200.6	3493.4	3332.7	3362.8	3471.2	3587.8	3666.2	3702.4	3704.3
17.5°	5867.9	5285.3	3909.3	3276.4	3224.2	3300.6	3435.1	3571.8	3668.2	3708.4	3716.4
20°	5970.4	5213.0	3603.9	3113.8	3121.7	3208.2	3334.7	3471.2	3577.8	3611.9	3628.0
22.5°	6105.0	5134.6	3336.7	2981.1	3005.2	3071.5	3169.9	3288.4	3380.9	3397.0	3411.1
25°	6285.6	5050.3	3123.8	2860.6	2870.7	2908.8	2975.1	3045.4	3109.7	3091.6	3105.7
27.5°	6528.8	4978.0	2965.1	2750.2	2732.0	2740.1	2774.2	2796.4	2830.5	2780.2	2786.3
30°	6814.1	4899.6	2842.5	2653.7	2603.5	2589.5	2597.4	2609.5	2635.7	2567.4	2557.3
32.5°	7145.5	4805.2	2727.9	2569.3	2499.0	2470.9	2474.9	2507.1	2607.5	2565.3	2543.2
35°	7531.2	4698.7	2607.5	2476.9	2428.8	2388.5	2384.5	2485.0	2784.3	2758.1	2738.0
37.5°	7983.2	4592.2	2487.0	2372.4	2376.5	2332.2	2318.3	2432.7	2818.5	2715.9	2701.9
40°	8557.7	4536.0	2384.5	2262.0	2312.3	2306.1	2278.0	2336.3	2593.5	2406.7	2382.5
42.5°	9268.9	4544.1	2308.2	2143.4	2235.9	2300.1	2255.9	2258.0	2350.3	2209.8	2187.7
45°	10146.8	4638.5	2253.9	2049.0	2149.4	2294.1	2247.9	2215.8	2223.9	2149.4	2137.4
47.5°	11171.3	4833.3	2215.8	1970.7	2067.0	2272.0	2246.0	2203.8	2185.6	2145.5	2135.5
50°	12310.4	5116.6	2187.7	1896.4	1992.8	2235.9	2247.9	2191.6	2171.5	2155.4	2149.4
52.5°	13429.3	5440.0	2145.5	1832.1	1934.6	2191.6	2253.9	2179.6	2157.6	2145.5	2139.4
55°	14676.8	5843.7	2081.2	1777.8	1886.4	2135.5	2253.9	2161.5	2137.4	2139.4	2137.4
57.5°	16362.2	6496.7	2004.8	1731.6	1828.0	2067.0	2215.8	2141.5	2111.3	2113.3	2115.4
60°	18995.9	7647.7	1912.5	1685.5	1755.8	1986.8	2163.6	2097.2	2067.0	2075.2	2077.1
62.5°	22868.8	9337.2	1791.9	1617.1	1679.5	1900.3	2091.2	2041.0	2010.9	2030.9	2030.9
65°	26894.6	10827.8	1643.3	1530.7	1599.0	1805.9	2000.9	1970.7	1940.6	1986.8	1984.8
67.5°	27977.5	10494.3	1494.5	1436.3	1518.7	1701.5	1892.4	1876.3	1860.2	1940.6	1936.5
70°	24853.6	8425.2	1358.0	1339.9	1430.3	1588.9	1775.8	1775.8	1765.7	1826.0	1811.9
72.5°	18935.5	5974.4	1227.4	1237.5	1329.9	1466.5	1649.3	1663.4	1647.3	1677.3	1665.3
75°	10136.7	3419.0	1096.9	1125.0	1205.3	1341.9	1508.7	1522.7	1512.7	1510.6	1516.7
77.5°	3368.9	1671.3	960.3	1004.4	1074.8	1213.4	1362.0	1384.1	1360.0	1356.0	1353.9
80°	1500.5	1050.6	809.6	867.8	930.2	1066.7	1207.4	1225.5	1199.3	1235.5	1189.3
82.5°	964.2	691.1	648.9	713.1	773.4	920.1	1052.6	1056.6	1032.6	1199.3	1022.5
85°	468.0	427.9	488.2	546.4	598.6	723.2	871.9	873.8	813.6	741.4	715.1
87.5°	233.0	249.1	325.5	377.7	403.8	496.1	634.8	622.8	596.7	542.4	500.2
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)