

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: P268949

Luminaire Tested: **GAN-AF-10-LED-U-T3R-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
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-T3R-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52336.5 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

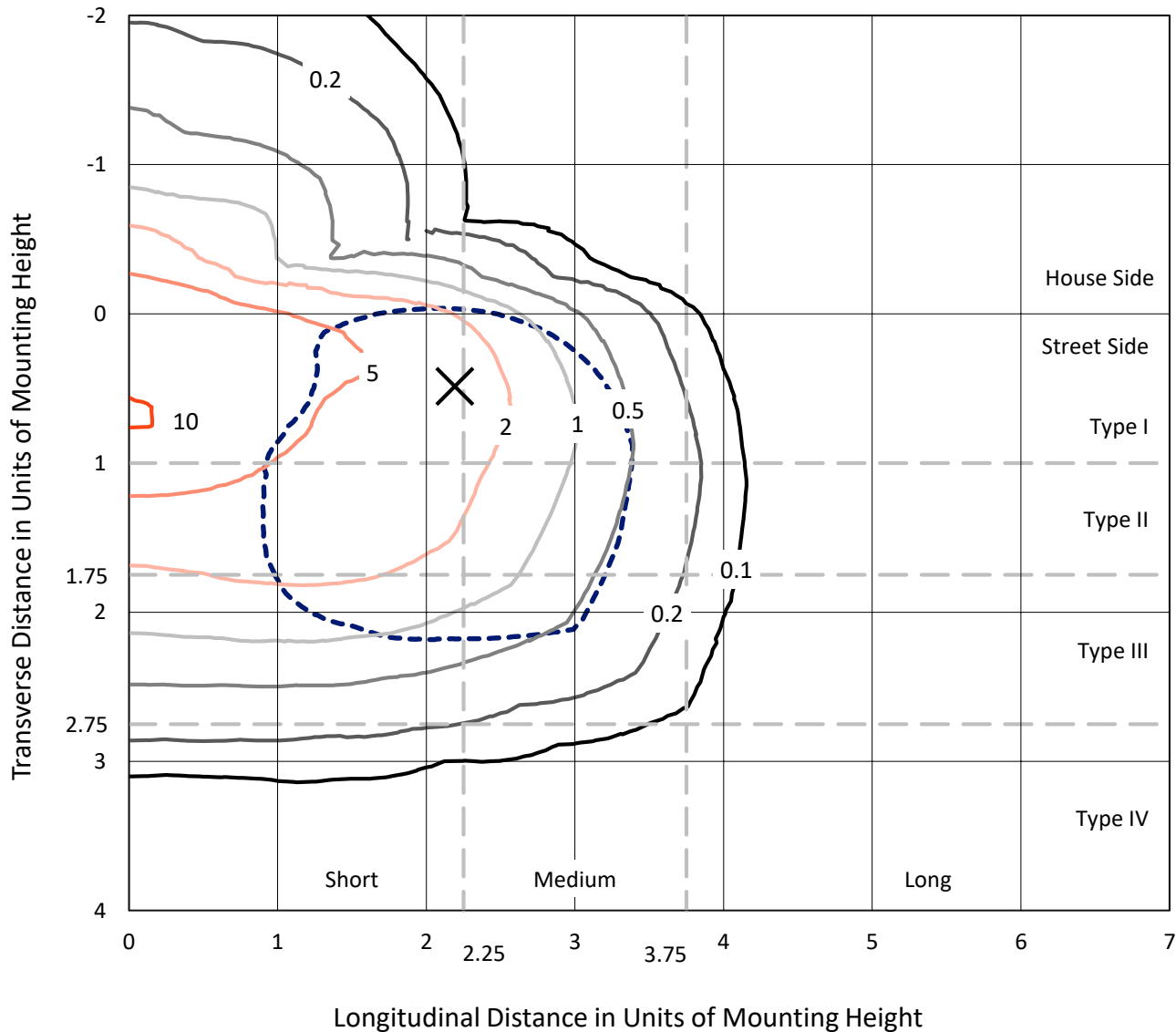
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

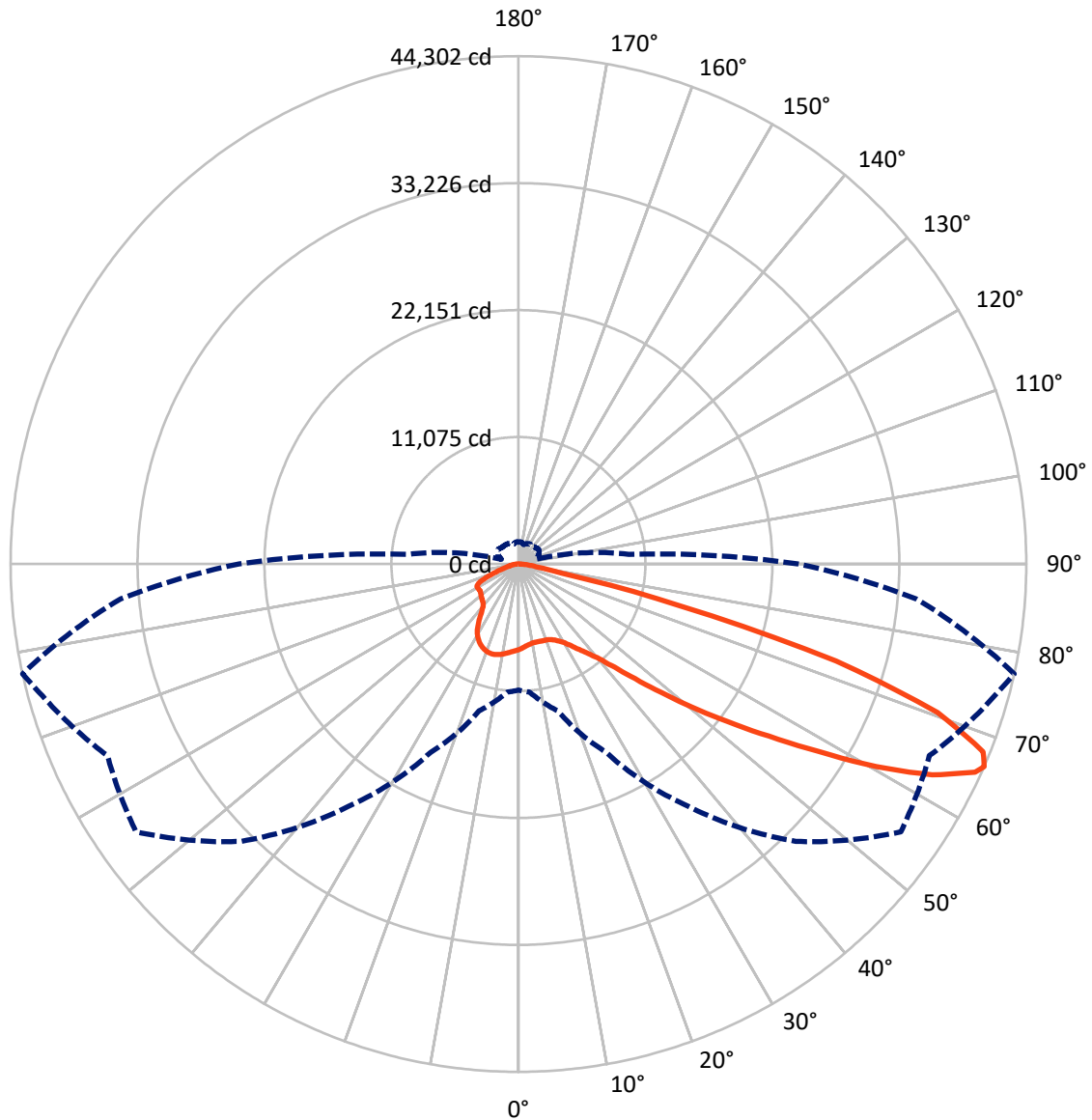
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8941.4	0.0	8941.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	43395.1	0.0	43395.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	52336.5	0.0	52336.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	666.3	1.3
10°-20°	1879.8	3.6
20°-30°	3208.2	6.1
30°-40°	5135.8	9.8
40°-50°	7934.3	15.2
50°-60°	11253.5	21.5
60°-70°	15054.2	28.8
70°-80°	6537.7	12.5
80°-90°	666.6	1.3
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°	52336.5	100.0
0°-180°	52336.5	100.0



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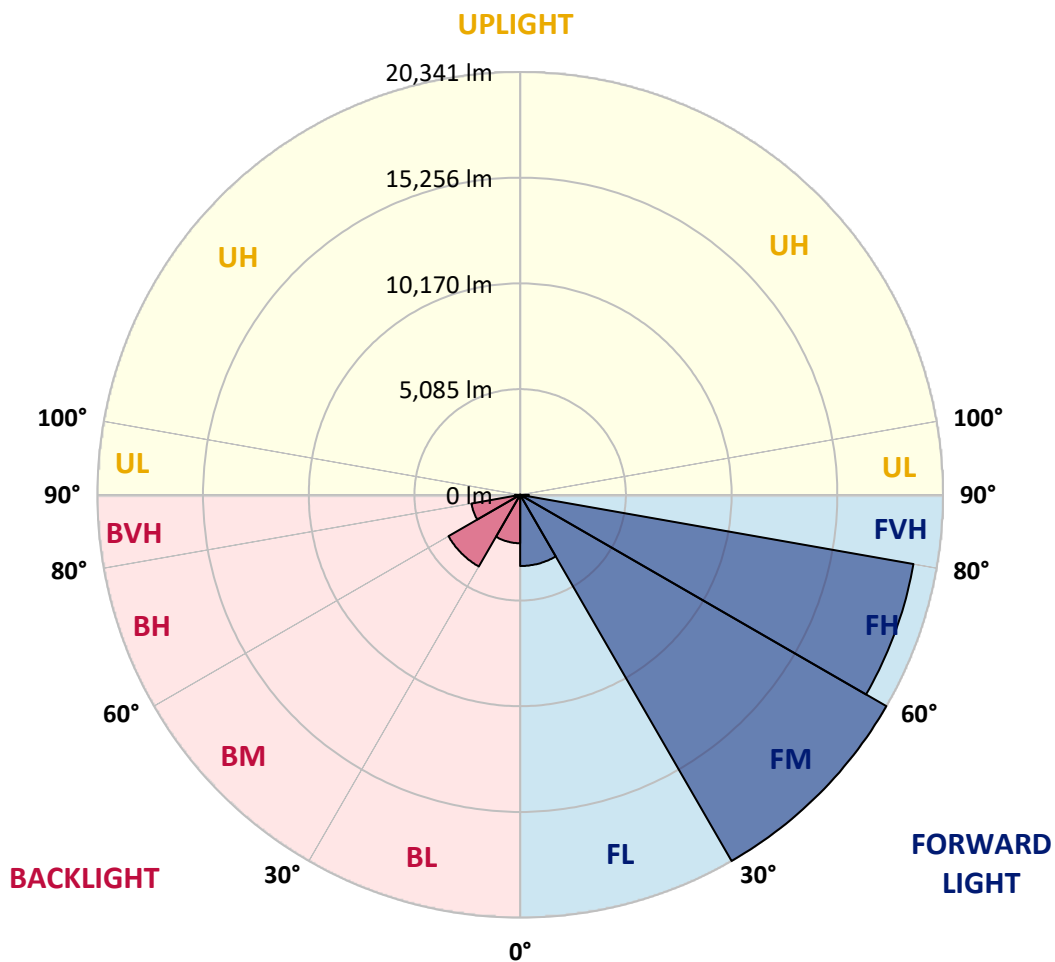
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3425.7	6.5			
FM	(30°-60°)	20340.7	38.9			
FH	(60°-80°)	19210.7	36.7			G5
FVH	(80°-90°)	418.1	0.8			G3/500
BL	(0°-30°)	2328.7	4.4	B3/2500		
BM	(30°-60°)	3982.9	7.6	B3/5000		
BH	(60°-80°)	2381.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	248.5	0.5			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	7458.2	7458.2	7458.2	7458.2	7458.2	7458.2	7458.2	7458.2	7458.2	7458.2	7458.2
2.5°	6597.6	6642.2	6679.3	6713.8	6783.1	6896.8	7027.9	7134.2	7287.6	7317.2	7398.9
5°	5991.8	5991.8	6021.5	6073.4	6167.4	6338.0	6516.0	6753.5	7087.3	7166.4	7384.0
7.5°	5697.5	5699.9	5717.4	5761.8	5843.5	5999.2	6194.5	6473.9	6926.6	7057.7	7428.5
10°	5806.4	5781.6	5744.5	5722.3	5734.6	5826.0	6011.5	6323.2	6827.6	6995.8	7527.4
12.5°	6414.6	6367.6	6239.1	6068.4	5905.3	5838.4	5947.3	6251.5	6785.5	6981.0	7658.5
15°	7408.7	7389.0	7149.2	6795.5	6399.9	6068.4	5994.3	6224.3	6790.5	6998.2	7814.3
17.5°	8655.1	8628.0	8311.4	7797.0	7151.5	6506.2	6159.9	6246.5	6807.9	7027.9	7965.1
20°	9913.8	9829.8	9488.4	8875.2	8046.7	7102.1	6434.4	6303.3	6830.2	7060.0	8123.5
22.5°	10853.4	10784.2	10477.7	9881.6	8927.0	7792.1	6802.9	6402.3	6901.8	7154.0	8318.8
25°	11679.5	11684.3	11380.2	10804.0	9817.3	8523.9	7277.7	6667.0	7084.8	7346.9	8585.8
27.5°	12700.6	12641.4	12356.9	11785.8	10697.6	9263.4	7851.4	7030.3	7356.8	7621.4	8937.0
30°	13922.3	13880.3	13551.4	12903.4	11674.5	10057.2	8506.7	7453.2	7707.9	7982.5	9396.9
32.5°	15359.0	15339.3	14998.0	14164.7	12802.0	10991.9	9275.8	8012.2	8232.2	8516.7	10057.2
35°	17045.6	17048.0	16645.0	15643.4	14036.0	12080.0	10148.7	8731.7	8870.3	9166.9	10843.6
37.5°	18084.1	18210.4	18059.4	17038.2	15433.2	13296.7	11281.3	9686.2	9597.2	9896.4	11686.8
40°	18306.6	18460.0	18937.3	18417.9	16996.1	14637.0	12285.3	10603.8	10492.5	10858.4	12772.5
42.5°	17995.1	18207.8	19216.7	19582.7	18655.5	16288.8	13635.5	11966.2	11825.3	12317.4	14122.7
45°	17809.6	17968.0	19135.2	20188.6	20094.6	18155.9	15354.1	13677.6	13625.5	14271.0	15680.5
47.5°	17488.3	17631.7	18754.4	20329.5	20940.3	19867.2	17418.9	15769.6	15871.0	16716.6	17438.7
50°	17661.2	17720.7	18328.9	19970.9	21185.2	21120.9	19726.2	18193.0	18539.2	19595.1	19429.4
52.5°	17636.6	17789.9	18279.5	19382.4	21217.2	21894.8	21998.8	20895.8	21625.3	22837.0	21637.7
55°	14258.6	14540.5	17698.3	19234.1	21331.1	22654.0	24021.5	23744.5	25104.7	26516.7	24130.4
57.5°	13615.7	13793.7	15544.5	19545.6	21934.5	24103.1	26271.9	26880.3	29155.2	30794.7	27167.0
60°	13489.6	13709.7	15522.3	19926.5	23158.6	26464.7	29607.7	30676.1	34083.8	35879.1	30688.4
62.5°	13096.4	13333.7	15376.4	19876.9	24897.0	29731.5	33878.5	34711.8	38757.5	40503.3	33633.6
65°	11850.0	12072.6	14186.9	19078.3	26069.2	33218.2	38933.0	38411.3	42447.0	43760.0	35102.4
66°	10997.0	11214.5	13249.7	18138.5	25797.0	34207.4	40723.4	39556.1	43273.0	44301.6	34815.7
67.5°	9436.5	9607.2	11429.7	16034.1	24350.4	34484.2	42229.3	40416.7	43359.5	43722.9	33176.2
70°	5962.1	6011.5	7428.5	11068.6	18432.9	29907.0	39936.9	38280.2	39783.6	38799.5	27812.5
72.5°	2586.6	2569.3	3565.9	5630.8	10435.5	20067.3	32305.7	31586.1	31207.7	28962.3	19469.0
75°	1439.3	1458.9	1852.1	2613.9	4241.0	9856.9	21133.3	20223.3	17075.3	14570.1	8828.2
77.5°	1154.9	1182.0	1535.7	1854.7	1904.0	3437.4	9889.0	8046.7	4844.4	3887.3	2453.1
80°	912.5	961.9	1340.4	1444.1	1283.4	1416.9	3194.9	2554.5	1916.4	1758.3	1271.0
82.5°	722.1	756.7	1149.9	1093.0	897.6	954.4	1530.7	1491.1	1246.3	1135.1	734.5
85°	519.3	583.5	944.7	823.4	588.5	642.9	1016.3	974.3	714.6	583.5	324.0
87.5°	212.7	276.9	667.7	546.4	328.9	299.2	507.0	477.3	338.8	247.4	160.7
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°	7458.2	7458.2	7458.2	7458.2	7458.2	7458.2	7458.2	7458.2	7458.2	7458.2	7458.2
2.5°	7450.8	7510.1	7586.7	7633.7	7658.5	7675.7	7703.1	7700.5	7707.9	7710.4	7720.4
5°	7500.3	7599.1	7710.4	7740.2	7740.2	7712.8	7685.7	7641.3	7623.8	7619.0	7623.8
7.5°	7628.9	7737.6	7834.1	7799.4	7725.2	7616.5	7475.5	7351.9	7285.2	7262.8	7257.9
10°	7792.1	7923.1	7962.7	7831.7	7614.0	7351.9	7072.4	6869.7	6753.5	6721.3	6711.3
12.5°	7989.9	8113.5	8059.1	7782.1	7379.0	6956.2	6570.5	6246.5	6004.1	5927.5	5922.5
15°	8207.5	8303.9	8113.5	7628.9	7027.9	6404.7	5717.4	5158.4	4856.7	4760.3	4752.9
17.5°	8410.2	8459.7	8081.3	7361.8	6511.1	5502.2	4589.7	4159.4	4055.5	4080.2	4085.2
20°	8583.3	8583.3	7972.5	6978.5	5697.5	4312.8	3736.5	3729.1	3803.2	3877.4	3892.4
22.5°	8773.7	8660.0	7782.1	6437.0	4545.2	3528.8	3444.7	3514.0	3598.0	3679.6	3692.0
25°	9008.7	8721.9	7517.6	5615.9	3573.3	3204.9	3237.0	3293.8	3335.9	3387.9	3395.2
27.5°	9270.8	8801.0	7168.8	4485.7	3100.9	3002.0	3026.7	3046.6	3041.7	3061.5	3066.4
30°	9584.8	8892.5	6691.7	3506.5	2905.7	2829.0	2784.4	2767.1	2767.1	2799.3	2811.7
32.5°	10005.2	9028.4	6006.6	3004.6	2811.7	2705.3	2561.8	2497.6	2522.4	2631.1	2655.8
35°	10467.7	9174.4	5079.2	2834.0	2791.9	2648.5	2426.0	2307.1	2309.6	2411.1	2443.2
37.5°	10972.2	9359.8	4062.9	2801.8	2836.4	2650.9	2354.2	2191.0	2124.2	2124.2	2136.6
40°	11617.6	9550.3	3289.0	2824.0	2930.5	2680.6	2317.1	2099.5	1911.6	1916.4	1926.3
42.5°	12458.4	9713.5	2873.5	2871.1	3044.0	2720.2	2314.7	1978.2	1815.0	1926.3	2027.7
45°	13393.1	9795.1	2690.6	2913.1	3135.7	2745.0	2275.0	1958.6	1827.4	2158.8	2351.8
47.5°	14468.8	9748.0	2589.2	2927.8	3157.8	2745.0	2230.5	2005.5	1914.0	2500.2	2725.1
50°	15648.4	9612.0	2490.2	2898.2	3150.4	2739.9	2272.6	2052.4	1946.2	2559.5	2715.2
52.5°	17035.6	9498.3	2386.3	2834.0	3098.6	2712.7	2321.9	2032.8	1844.8	2327.0	2435.8
55°	18618.4	9530.5	2270.0	2742.4	3016.9	2660.8	2304.7	1953.5	1738.4	2050.0	2116.8
57.5°	20641.2	9913.8	2131.6	2626.1	2905.7	2574.3	2242.9	1916.4	1706.3	1859.6	1899.1
60°	22898.9	10581.5	1958.6	2510.0	2767.1	2435.8	2195.8	1933.8	1721.2	1844.8	1864.5
62.5°	24555.7	10969.7	1810.2	2339.4	2579.3	2282.5	2136.6	1956.1	1760.7	1896.7	1891.7
65°	25005.8	10331.6	1624.7	2089.5	2324.5	2121.7	2062.4	1980.8	1777.9	1938.7	1916.4
66°	24375.1	9644.3	1543.1	1973.3	2195.8	2042.6	2025.3	1978.2	1770.6	1943.8	1906.7
67.5°	22844.4	8234.8	1402.2	1802.7	1990.6	1923.9	1965.9	1956.1	1750.7	1938.7	1886.8
70°	18630.7	5618.4	1199.3	1501.1	1656.8	1693.9	1852.1	1876.9	1686.5	1852.1	1738.4
72.5°	13017.2	3422.5	1060.9	1164.7	1340.4	1444.1	1696.4	1768.1	1599.9	1617.3	1508.4
75°	6291.0	1817.6	961.9	902.5	1041.0	1206.8	1508.4	1619.7	1464.0	1352.7	1313.1
77.5°	1961.0	1110.3	816.0	727.0	816.0	974.3	1261.2	1419.4	1303.3	1132.6	1117.8
80°	1053.4	816.0	628.2	583.5	645.4	764.1	991.5	1184.5	1120.2	1016.3	907.6
82.5°	694.8	529.2	465.0	452.6	492.1	583.5	736.9	981.8	981.8	870.5	633.0
85°	358.6	324.0	319.0	319.0	343.7	388.2	502.1	756.7	806.1	459.9	380.8
87.5°	178.0	185.5	173.2	180.5	192.9	190.4	239.8	380.8	455.0	279.5	232.4
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)