

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: P318461

Luminaire Tested: **GAN-SA7D-750-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318461
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7D-750-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 54893 lumens
Efficiency: N/A
Efficacy: 122.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

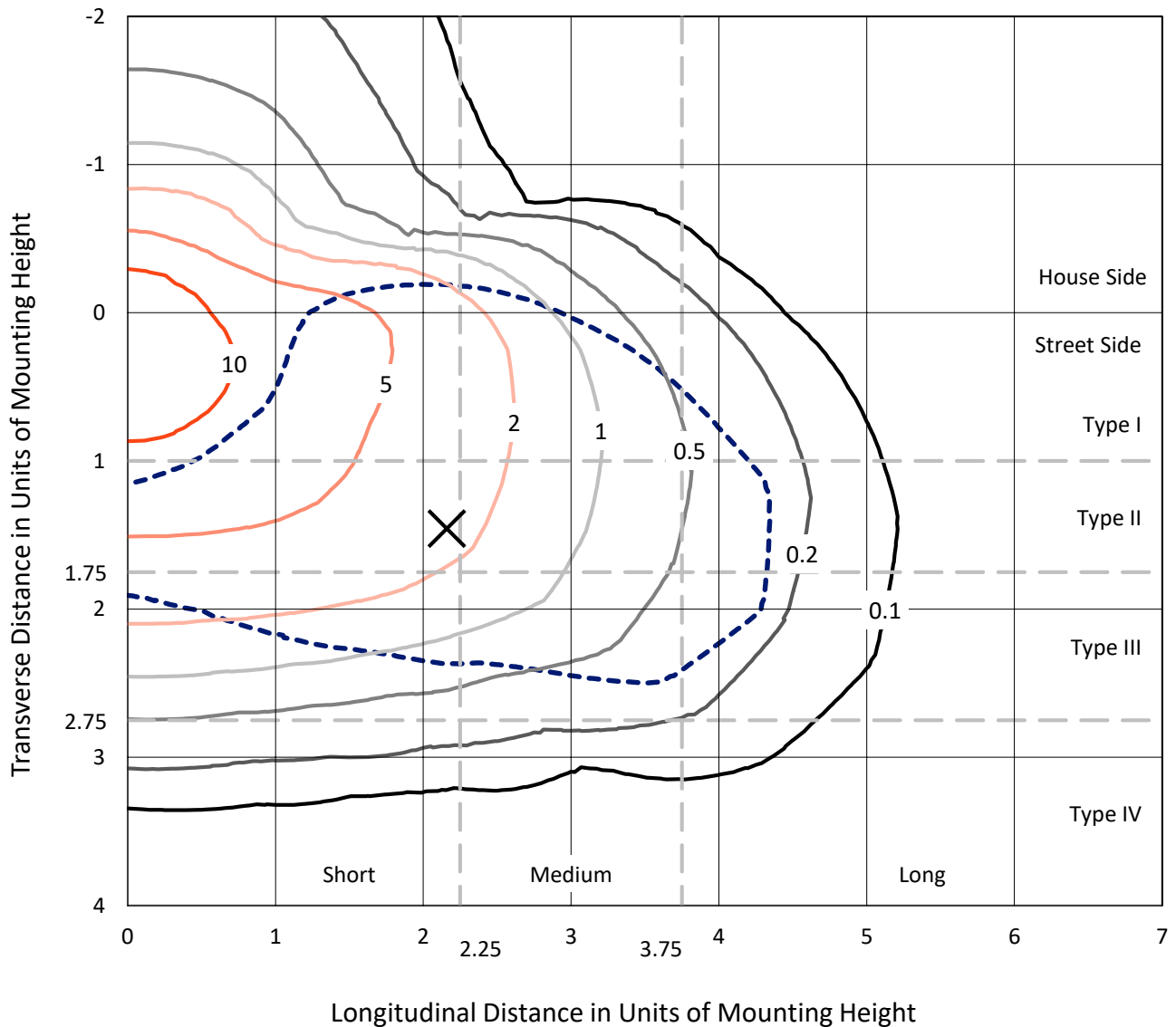
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

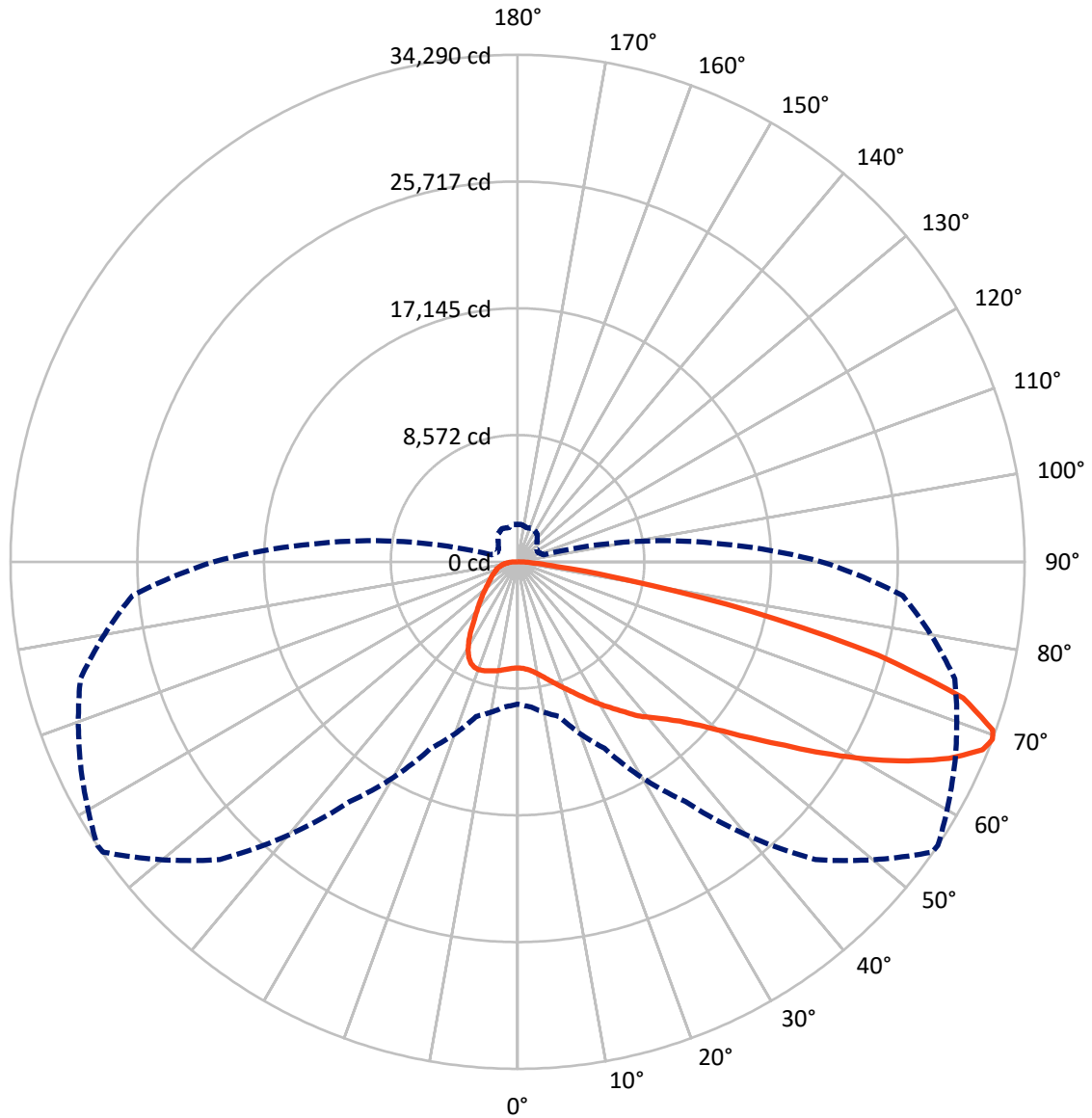
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12224.6	0.0	12224.6
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	42668.4	0.0	42668.4
	% Fixture	77.7	0.0	77.7
Total	Lumens	54893.0	0.0	54893.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.8	1.3
10°-20°	2266.5	4.1
20°-30°	3956.4	7.2
30°-40°	5683.2	10.4
40°-50°	7865.3	14.3
50°-60°	11523.8	21.0
60°-70°	14049.6	25.6
70°-80°	7767.5	14.2
80°-90°	1075.8	2.0
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°	54893.0	100.0
0°-180°	54893.0	100.0

Coefficient of Utilization

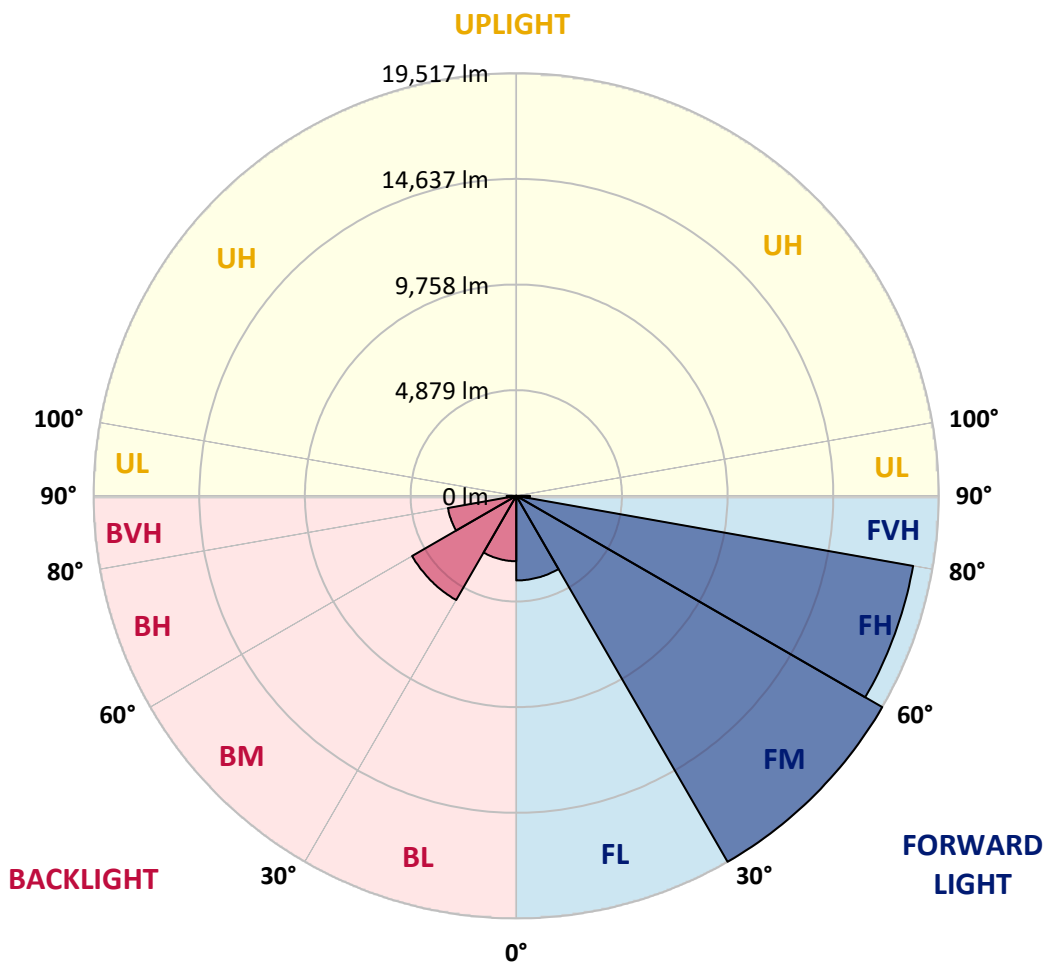


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3906.8	7.1			
FM (30°-60°)	19516.5	35.6			
FH (60°-80°)	18611.5	33.9			G5
FVH (80°-90°)	633.7	1.2			G4/750
BL (0°-30°)	3021.0	5.5	B4/5000		
BM (30°-60°)	5555.8	10.1	B4/8500		
BH (60°-80°)	3205.7	5.8	B4/5000		G4/5000
BVH (80°-90°)	442.1	0.8			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4
2.5°	7221.8	7229.4	7223.7	7238.8	7221.8	7233.2	7223.7	7223.7	7218.0	7201.0	7182.1
5°	7335.3	7350.4	7341.0	7356.1	7335.3	7339.1	7322.0	7322.0	7305.0	7269.1	7231.3
7.5°	7513.0	7530.1	7522.5	7537.6	7509.3	7509.3	7486.6	7484.7	7450.6	7392.0	7348.5
10°	7724.8	7747.5	7740.0	7762.7	7740.0	7747.5	7724.8	7724.8	7679.4	7596.2	7541.4
12.5°	8033.1	8061.4	8040.6	8038.7	8029.3	8044.4	8025.5	8021.7	7980.1	7866.7	7791.0
15°	8445.3	8475.6	8432.1	8428.3	8375.3	8369.7	8369.7	8364.0	8337.5	8201.4	8076.6
17.5°	8920.0	8929.4	8891.6	8831.1	8763.0	8719.5	8713.8	8729.0	8729.0	8570.1	8371.6
20°	9385.1	9402.2	9371.9	9303.8	9216.8	9152.6	9107.2	9137.4	9135.5	8946.4	8664.7
22.5°	9891.9	9931.7	9886.3	9799.3	9697.2	9625.3	9545.9	9572.4	9574.3	9341.7	8952.1
25°	10548.1	10512.2	10483.8	10360.9	10215.3	10141.6	10067.8	10094.3	10086.7	9767.1	9249.0
27.5°	11128.7	11136.2	11098.4	10967.9	10799.6	10637.0	10633.2	10650.2	10621.9	10209.6	9528.9
30°	11803.8	11807.5	11754.6	11637.4	11453.9	11244.0	11194.9	11223.2	11162.7	10629.4	9823.9
32.5°	12475.1	12494.0	12435.4	12293.5	12146.0	11890.8	11792.4	11811.3	11660.0	11058.7	10128.3
35°	13063.2	13089.7	13070.8	12976.2	12815.5	12596.1	12478.9	12467.5	12280.3	11584.4	10531.1
37.5°	13662.6	13687.2	13666.4	13587.0	13522.7	13290.1	13227.7	13227.7	12902.5	12121.5	11043.6
40°	14279.1	14316.9	14292.4	14182.7	14127.8	14021.9	13872.5	13836.6	13484.9	12766.3	11879.4
42.5°	14852.1	14901.3	14999.6	14935.3	14823.7	14838.9	14538.2	14519.3	14262.1	13719.4	12928.9
45°	15665.2	15737.1	15903.5	15854.3	15831.6	15748.4	15391.0	15374.0	15275.7	15001.5	14231.8
47.5°	16552.1	16650.5	16951.1	16960.6	17204.5	17047.6	16561.6	16503.0	16525.7	16537.0	15822.2
50°	17369.0	17476.8	17970.4	18203.0	18777.9	18811.9	18034.7	17981.7	18070.6	18331.6	17675.4
52.5°	18021.5	18157.6	18774.1	19492.7	20477.9	20757.8	19848.2	19808.5	19874.7	20324.7	19770.6
55°	18499.9	18647.4	19318.7	20627.3	22200.6	22694.2	21935.9	21898.0	21939.7	22512.6	22049.3
57.5°	18611.5	18647.4	19621.3	21391.3	23654.8	24840.5	24490.6	24415.0	24210.8	24710.0	24564.4
60°	18087.6	18231.4	19371.6	21659.8	24780.0	26956.5	27160.8	27066.2	26493.2	26901.7	26784.5
62.5°	17024.9	17282.1	18439.4	21251.3	25220.6	28684.9	29779.8	29666.4	28679.3	28944.0	28380.5
65°	15288.9	15398.6	16614.5	19842.5	24660.8	29791.2	32115.2	32058.5	30816.1	30402.0	28675.5
67.5°	12183.9	12390.0	13422.5	16898.2	22370.8	29660.7	33921.2	33915.5	32211.7	30942.8	27629.7
69°	9625.3	9839.0	10822.3	13919.8	19795.2	28467.5	34223.7	34289.9	32605.0	30613.8	26135.8
70°	7673.8	7921.5	8596.6	11724.3	17509.0	26894.1	33972.2	34091.4	32529.4	30071.1	24757.3
72.5°	3265.8	3466.2	3946.6	6043.7	10671.0	20082.7	31061.9	31512.0	30776.4	27522.0	20460.9
75°	1425.8	1488.2	1705.7	2464.0	4737.0	10930.1	24333.7	25165.7	26315.5	23263.4	15241.6
77.5°	1043.8	1070.3	1189.5	1446.6	2125.5	4128.1	15648.2	16132.3	18978.3	16928.4	9349.2
80°	807.5	826.4	919.0	1062.8	1388.0	1669.8	7136.7	7552.7	10671.0	8694.9	3893.6
82.5°	642.9	656.2	720.5	782.9	958.7	1011.7	2369.5	2628.5	3939.0	2401.6	1030.6
85°	597.6	612.7	635.4	571.1	614.6	593.8	1024.9	1072.2	1189.5	943.6	431.2
87.5°	270.4	319.6	629.7	444.4	327.1	261.0	419.8	438.7	493.6	495.4	191.0
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°	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4	7176.4
2.5°	7193.5	7187.8	7197.2	7174.5	7202.9	7201.0	7191.6	7195.3	7214.3	7212.4	7214.3
5°	7236.9	7233.2	7244.5	7227.5	7261.5	7272.9	7274.8	7291.8	7312.6	7318.3	7318.3
7.5°	7346.6	7346.6	7352.3	7329.6	7352.3	7350.4	7341.0	7358.0	7378.8	7380.7	7378.8
10°	7535.7	7537.6	7528.2	7469.5	7450.6	7399.6	7352.3	7354.2	7380.7	7401.5	7407.1
12.5°	7774.0	7766.4	7724.8	7617.0	7537.6	7433.6	7384.4	7382.6	7409.0	7426.0	7431.7
15°	8046.3	8025.5	7917.7	7741.8	7601.9	7499.8	7420.4	7401.5	7386.3	7367.4	7369.3
17.5°	8303.5	8256.2	8076.6	7832.6	7685.1	7549.0	7395.8	7272.9	7187.8	7138.6	7123.5
20°	8564.4	8471.8	8212.7	7917.7	7730.5	7482.8	7187.8	6938.2	6783.1	6711.2	6698.0
22.5°	8802.7	8653.3	8339.4	8006.6	7694.6	7259.6	6796.3	6433.3	6217.7	6121.2	6128.8
25°	9035.3	8827.3	8471.8	8069.0	7513.0	6866.3	6251.7	5805.4	5555.8	5448.0	5444.3
27.5°	9239.5	9003.2	8615.5	8017.9	7174.5	6306.6	5606.9	5171.9	4963.9	4871.3	4856.1
30°	9474.0	9224.4	8806.5	7823.2	6679.1	5659.8	4977.2	4670.8	4523.3	4430.7	4413.6
32.5°	9759.6	9525.1	8963.5	7469.5	6045.6	4984.7	4485.5	4271.8	4137.6	4033.6	4014.6
35°	10175.6	9922.2	9003.2	6962.7	5349.7	4451.5	4124.3	3905.0	3723.4	3589.2	3575.9
37.5°	10697.5	10419.5	8912.4	6306.6	4674.6	4105.4	3823.6	3553.2	3316.9	3127.8	3097.5
40°	11450.1	11030.3	8660.9	5550.2	4177.3	3838.8	3530.5	3222.3	2929.2	2707.9	2664.5
42.5°	12354.1	11747.0	8275.1	4797.5	3812.3	3568.4	3239.3	2857.3	2577.5	2420.5	2397.8
45°	13503.8	12492.1	7740.0	4139.5	3453.0	3297.9	2925.4	2573.7	2399.7	2284.4	2265.4
47.5°	14816.2	13327.9	7178.3	3604.3	3148.6	3044.5	2673.9	2447.0	2308.9	2218.2	2201.2
50°	16429.2	14271.6	6582.7	3165.6	2842.2	2740.1	2554.8	2377.0	2267.3	2197.4	2180.3
52.5°	18248.4	15336.2	6153.4	2819.5	2588.8	2515.1	2492.4	2339.2	2250.3	2197.4	2180.3
55°	20207.5	16419.8	5690.1	2528.3	2369.5	2390.3	2450.8	2343.0	2282.5	2218.2	2193.6
57.5°	22168.5	17539.2	5173.8	2282.5	2195.5	2297.6	2422.4	2350.5	2299.5	2237.1	2214.4
60°	23719.1	18248.4	4373.9	2076.3	2057.4	2195.5	2354.3	2293.8	2227.6	2229.5	2225.7
62.5°	24443.4	18210.6	3490.8	1892.9	1919.4	2057.4	2244.6	2204.9	2150.1	2223.8	2229.5
65°	24036.8	17302.9	2717.4	1726.5	1771.9	1913.7	2131.2	2161.4	2180.3	2322.2	2341.1
67.5°	22331.1	15536.6	2104.7	1580.9	1637.6	1815.4	2142.5	2354.3	2378.9	2528.3	2526.4
69°	20566.8	13880.1	1828.6	1505.3	1571.4	1840.0	2290.0	2477.2	2384.6	2543.4	2520.7
70°	19088.0	12569.6	1681.1	1454.2	1541.2	1883.5	2388.4	2475.3	2356.2	2492.4	2454.5
72.5°	14700.8	9042.9	1425.8	1359.6	1439.1	1802.1	2416.7	2420.5	2290.0	2316.5	2252.2
75°	10082.9	5714.7	1244.3	1231.1	1284.0	1624.4	2326.0	2312.7	2117.9	2080.1	2027.2
77.5°	5559.6	2902.7	1057.1	1108.1	1144.1	1439.1	2114.2	2095.3	1934.5	1855.1	1836.2
80°	2144.4	1270.8	892.6	985.2	1007.9	1246.2	1853.2	1836.2	1701.9	1599.8	1571.4
82.5°	809.4	665.6	737.5	852.9	845.3	1028.7	1569.5	1560.1	1429.6	1280.2	1234.8
85°	374.4	399.0	584.3	703.5	648.6	762.1	1255.6	1272.7	1113.8	936.1	936.1
87.5°	158.8	223.1	414.1	531.4	436.8	514.4	920.9	879.3	807.5	559.7	525.7
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)