

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: P318383

Luminaire Tested: **GAN-SA9D-730-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318383
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-SA9D-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63185 lumens
Efficiency: N/A
Efficacy: 109.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

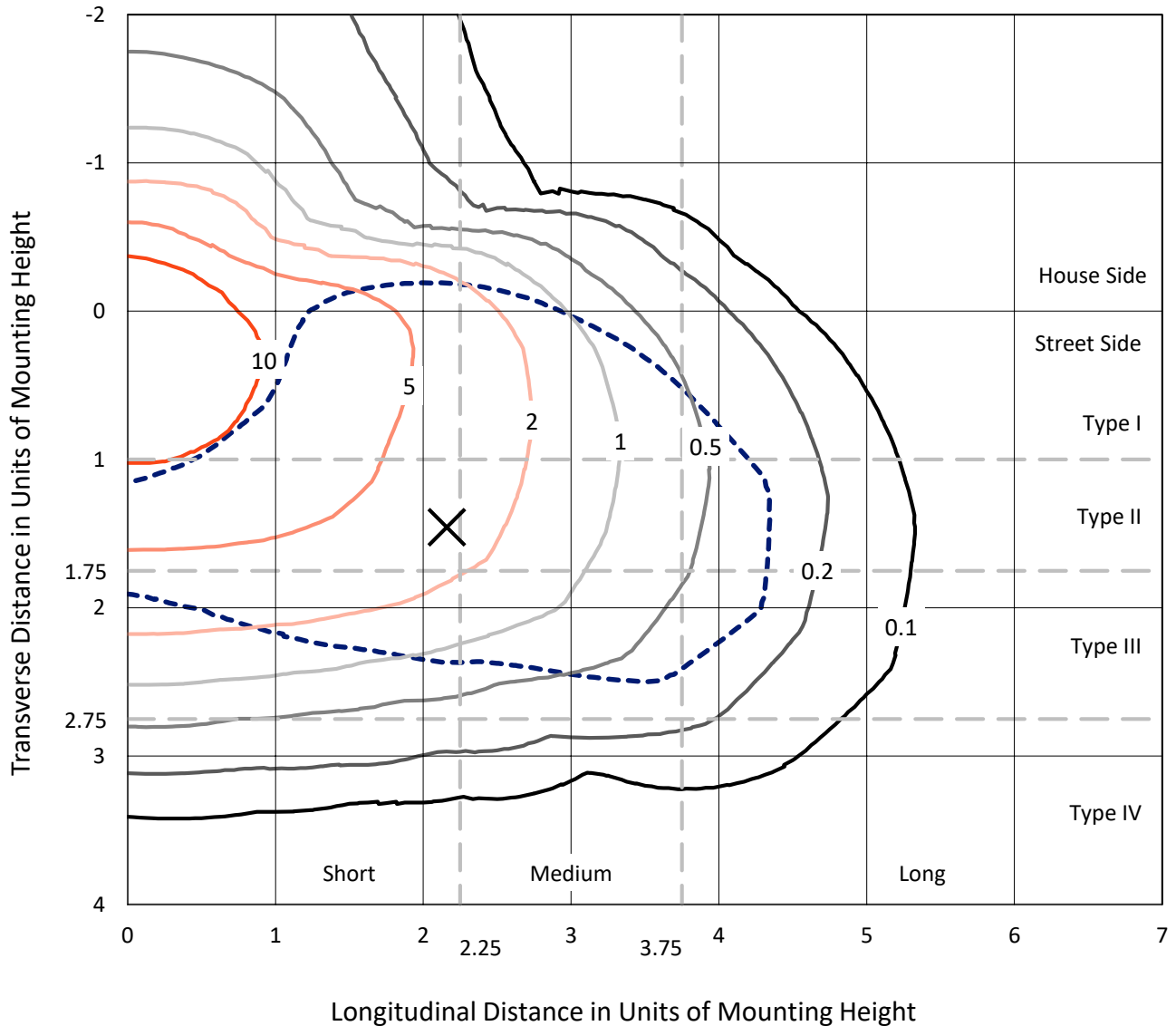
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

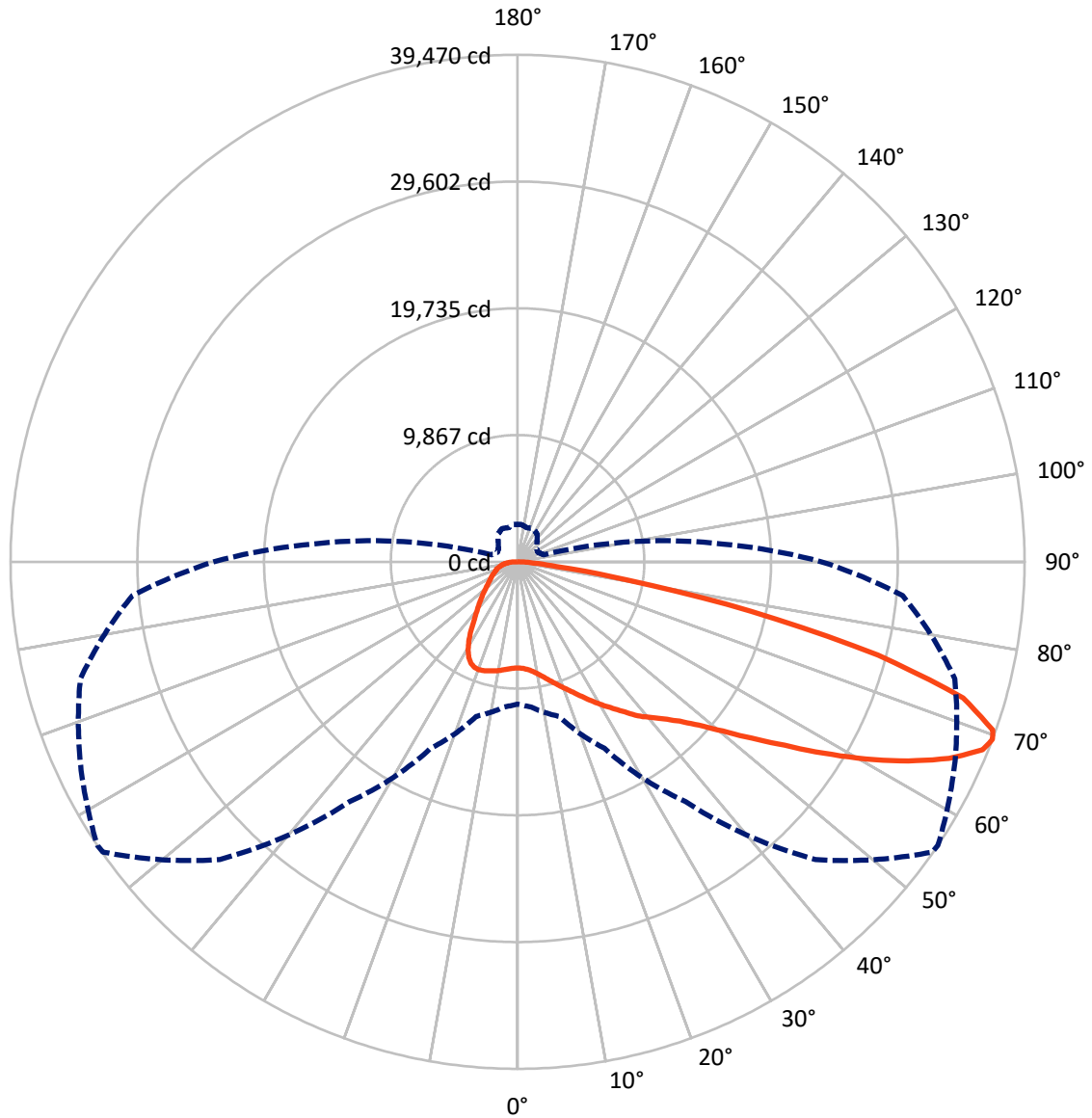
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.4 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	14071.2	0.0	14071.2
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	49113.8	0.0	49113.8
	% Fixture	77.7	0.0	77.7
Total	Lumens	63185.0	0.0	63185.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	811.3	1.3
10°-20°	2608.9	4.1
20°-30°	4554.0	7.2
30°-40°	6541.7	10.4
40°-50°	9053.4	14.3
50°-60°	13264.5	21.0
60°-70°	16171.9	25.6
70°-80°	8940.9	14.2
80°-90°	1238.3	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°	63185.0	100.0
0°-180°	63185.0	100.0

Coefficient of Utilization

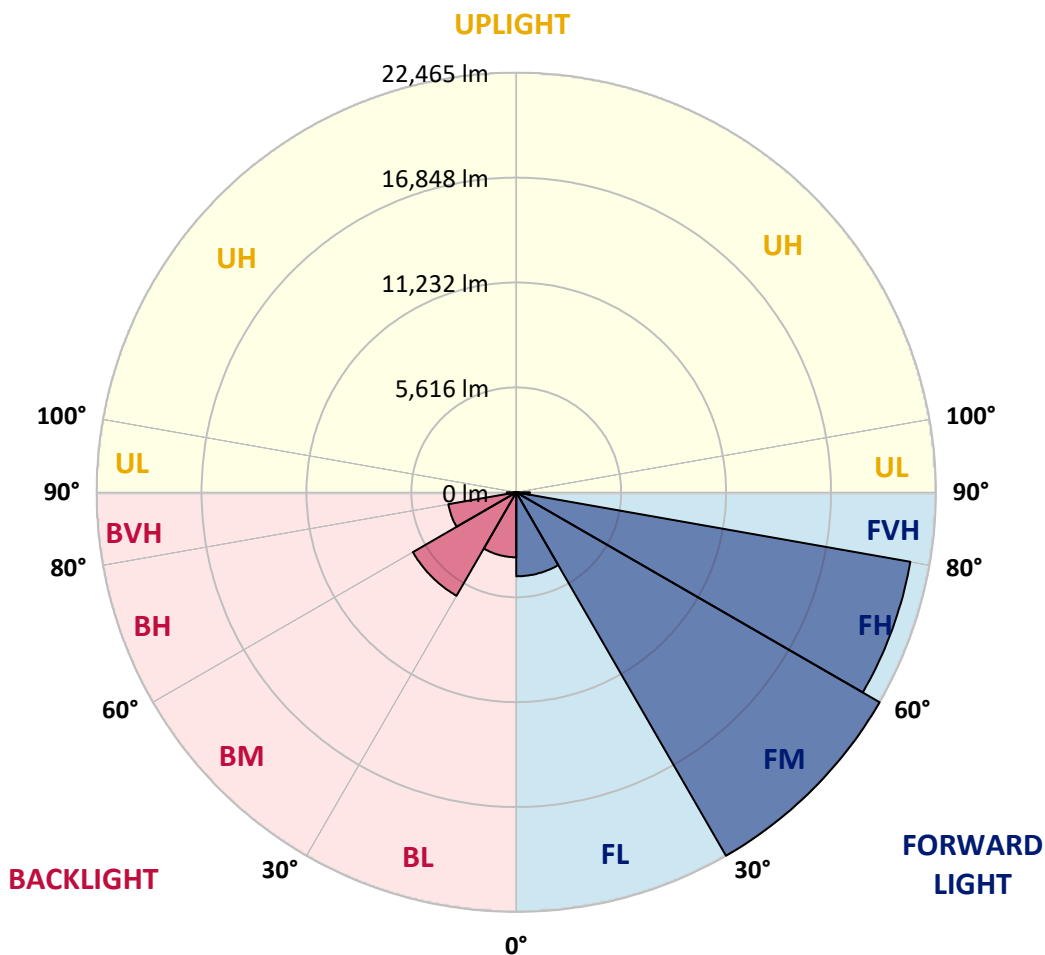


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4496.9	7.1			
FM (30°-60°)	22464.6	35.6			
FH (60°-80°)	21422.9	33.9			G5
FVH (80°-90°)	729.4	1.2			G4/750
BL (0°-30°)	3477.3	5.5	B4/5000		
BM (30°-60°)	6395.0	10.1	B4/8500		
BH (60°-80°)	3689.9	5.8	B4/5000		G4/5000
BVH (80°-90°)	508.9	0.8			G4/750
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°	8260.5	8260.5	8260.5	8260.5	8260.5	8260.5	8260.5	8260.5	8260.5	8260.5	8260.5
2.5°	8312.7	8321.4	8314.9	8332.3	8312.7	8325.8	8314.9	8314.9	8308.4	8288.8	8267.0
5°	8443.3	8460.7	8449.9	8467.3	8443.3	8447.7	8428.1	8428.1	8408.5	8367.1	8323.6
7.5°	8647.9	8667.5	8658.8	8676.2	8643.6	8643.6	8617.5	8615.3	8576.1	8508.6	8458.6
10°	8891.7	8917.8	8909.1	8935.3	8909.1	8917.8	8891.7	8891.7	8839.5	8743.7	8680.6
12.5°	9246.5	9279.2	9255.2	9253.1	9242.2	9259.6	9237.8	9233.5	9185.6	9055.0	8967.9
15°	9721.0	9755.9	9705.8	9701.4	9640.5	9634.0	9634.0	9627.4	9597.0	9440.2	9296.6
17.5°	10267.4	10278.3	10234.7	10165.1	10086.7	10036.7	10030.1	10047.5	10047.5	9864.7	9636.1
20°	10802.8	10822.4	10787.6	10709.2	10609.1	10535.1	10482.9	10517.7	10515.5	10297.9	9973.5
22.5°	11386.2	11431.9	11379.7	11279.5	11162.0	11079.3	10987.9	11018.3	11020.5	10752.8	10304.4
25°	12141.5	12100.1	12067.5	11926.0	11758.4	11673.5	11588.6	11619.1	11610.4	11242.5	10646.1
27.5°	12809.7	12818.4	12774.9	12624.7	12431.0	12243.8	12239.5	12259.0	12226.4	11751.9	10968.3
30°	13586.8	13591.2	13530.2	13395.3	13184.1	12942.5	12885.9	12918.6	12848.9	12235.1	11307.8
32.5°	14359.5	14381.3	14313.8	14150.6	13980.8	13686.9	13573.8	13595.5	13421.4	12729.2	11658.3
35°	15036.5	15067.0	15045.2	14936.4	14751.3	14498.8	14363.9	14350.8	14135.3	13334.3	12121.9
37.5°	15726.5	15754.8	15730.8	15639.4	15565.4	15297.7	15225.9	15225.9	14851.5	13952.5	12711.8
40°	16436.1	16479.6	16451.3	16325.1	16262.0	16140.1	15968.1	15926.7	15521.9	14694.7	13673.9
42.5°	17095.6	17152.2	17265.4	17191.4	17063.0	17080.4	16734.3	16712.5	16416.5	15791.8	14881.9
45°	18031.6	18114.3	18305.9	18249.3	18223.1	18127.4	17716.0	17696.4	17583.2	17267.6	16381.7
47.5°	19052.5	19165.6	19511.7	19522.6	19803.4	19622.7	19063.3	18995.9	19022.0	19035.0	18212.3
50°	19992.8	20116.8	20685.0	20952.7	21614.4	21653.6	20759.0	20698.0	20800.3	21100.7	20345.4
52.5°	20743.7	20900.4	21610.0	22437.2	23571.2	23893.4	22846.4	22800.7	22876.9	23394.9	22757.2
55°	21294.4	21464.2	22236.9	23743.2	25554.2	26122.3	25249.4	25205.9	25253.8	25913.3	25380.0
57.5°	21422.9	21464.2	22585.2	24622.6	27228.0	28592.8	28190.1	28103.1	27868.0	28442.6	28275.0
60°	20819.9	20985.3	22297.9	24931.7	28523.2	31028.5	31263.6	31154.8	30495.2	30965.4	30830.4
62.5°	19596.6	19892.6	21224.8	24461.5	29030.3	33018.0	34278.3	34147.7	33011.5	33316.2	32667.6
65°	17598.4	17724.7	19124.3	22839.9	28386.0	34291.4	36966.5	36901.2	35471.1	34994.4	33007.1
67.5°	14024.3	14261.6	15450.1	19450.8	25750.1	34141.2	39045.2	39038.7	37077.5	35617.0	31803.4
69°	11079.3	11325.2	12457.1	16022.5	22785.5	32767.7	39393.5	39469.7	37530.3	35238.2	30083.8
70°	8833.0	9118.1	9895.2	13495.4	20153.8	30956.7	39104.0	39241.1	37443.2	34613.5	28497.0
72.5°	3759.1	3989.8	4542.7	6956.7	12283.0	23116.3	35754.1	36272.1	35425.4	31679.4	23551.6
75°	1641.2	1713.0	1963.4	2836.2	5452.6	12581.2	28009.5	28967.2	30290.6	26777.5	17544.0
77.5°	1201.5	1232.0	1369.1	1665.2	2446.6	4751.7	18012.0	18569.2	21845.1	19485.6	10761.5
80°	929.4	951.2	1057.9	1223.3	1597.7	1922.0	8214.8	8693.6	12283.0	10008.4	4481.8
82.5°	740.1	755.3	829.3	901.1	1103.6	1164.5	2727.4	3025.6	4534.0	2764.4	1186.3
85°	687.8	705.2	731.4	657.4	707.4	683.5	1179.8	1234.2	1369.1	1086.2	496.3
87.5°	311.3	367.9	724.8	511.5	376.6	300.4	483.2	505.0	568.1	570.3	219.8
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°	8260.5	8260.5	8260.5	8260.5	8260.5	8260.5	8260.5	8260.5	8260.5	8260.5	8260.5
2.5°	8280.1	8273.5	8284.4	8258.3	8291.0	8288.8	8277.9	8282.3	8304.0	8301.8	8304.0
5°	8330.1	8325.8	8338.8	8319.3	8358.4	8371.5	8373.7	8393.3	8417.2	8423.7	8423.7
7.5°	8456.4	8456.4	8462.9	8436.8	8462.9	8460.7	8449.9	8469.4	8493.4	8495.6	8493.4
10°	8674.1	8676.2	8665.3	8597.9	8576.1	8517.3	8462.9	8465.1	8495.6	8519.5	8526.0
12.5°	8948.3	8939.6	8891.7	8767.7	8676.2	8556.5	8499.9	8497.7	8528.2	8547.8	8554.3
15°	9261.8	9237.8	9113.7	8911.3	8750.2	8632.7	8541.3	8519.5	8502.1	8480.3	8482.5
17.5°	9557.8	9503.4	9296.6	9015.8	8846.0	8689.3	8513.0	8371.5	8273.5	8217.0	8199.5
20°	9858.2	9751.5	9453.3	9113.7	8898.3	8613.1	8273.5	7986.2	7807.7	7725.0	7709.8
22.5°	10132.4	9960.5	9599.1	9216.0	8856.9	8356.3	7823.0	7405.1	7156.9	7045.9	7054.6
25°	10400.2	10160.7	9751.5	9287.9	8647.9	7903.5	7196.1	6682.4	6395.1	6271.0	6266.7
27.5°	10635.2	10363.2	9916.9	9229.1	8258.3	7259.2	6453.8	5953.2	5713.8	5607.1	5589.7
30°	10905.1	10617.8	10136.8	9004.9	7688.0	6514.8	5729.0	5376.4	5206.6	5100.0	5080.4
32.5°	11233.8	10963.9	10317.4	8597.9	6958.8	5737.7	5163.1	4917.1	4762.6	4642.9	4621.1
35°	11712.7	11421.0	10363.2	8014.5	6157.8	5123.9	4747.3	4494.8	4285.9	4131.3	4116.1
37.5°	12313.5	11993.5	10258.7	7259.2	5380.7	4725.6	4401.2	4090.0	3817.9	3600.2	3565.4
40°	13179.8	12696.6	9969.2	6388.5	4808.3	4418.7	4063.9	3709.1	3371.7	3117.0	3066.9
42.5°	14220.2	13521.5	9525.1	5522.2	4388.2	4107.4	3728.6	3289.0	2966.8	2786.1	2760.0
45°	15543.6	14379.1	8909.1	4764.7	3974.6	3796.1	3367.3	2962.5	2762.2	2629.4	2607.7
47.5°	17054.3	15341.2	8262.7	4148.7	3624.2	3504.4	3077.8	2816.6	2657.7	2553.2	2533.7
50°	18911.0	16427.4	7577.0	3643.8	3271.5	3154.0	2940.7	2736.1	2609.8	2529.3	2509.7
52.5°	21004.9	17652.8	7082.9	3245.4	2979.9	2895.0	2868.9	2692.5	2590.2	2529.3	2509.7
55°	23260.0	18900.1	6549.6	2910.2	2727.4	2751.3	2821.0	2696.9	2627.2	2553.2	2524.9
57.5°	25517.2	20188.7	5955.4	2627.2	2527.1	2644.7	2788.3	2705.6	2646.8	2575.0	2548.9
60°	27302.1	21004.9	5034.7	2390.0	2368.2	2527.1	2710.0	2640.3	2564.1	2566.3	2561.9
62.5°	28135.7	20961.4	4018.1	2178.9	2209.3	2368.2	2583.7	2538.0	2474.9	2559.8	2566.3
65°	27667.7	19916.6	3127.9	1987.3	2039.5	2202.8	2453.1	2487.9	2509.7	2673.0	2694.7
67.5°	25704.4	17883.6	2422.6	1819.7	1885.0	2089.6	2466.2	2710.0	2738.3	2910.2	2908.0
69°	23673.5	15976.8	2104.8	1732.6	1808.8	2117.9	2636.0	2851.4	2744.8	2927.6	2901.5
70°	21971.4	14468.4	1935.1	1673.9	1774.0	2168.0	2749.1	2849.3	2712.1	2868.9	2825.3
72.5°	16921.5	10408.9	1641.2	1565.0	1656.5	2074.4	2781.8	2786.1	2636.0	2666.4	2592.4
75°	11606.0	6577.9	1432.3	1417.0	1478.0	1869.8	2677.3	2662.1	2437.9	2394.3	2333.4
77.5°	6399.4	3341.2	1216.8	1275.5	1316.9	1656.5	2433.5	2411.8	2226.7	2135.3	2113.6
80°	2468.4	1462.7	1027.4	1134.0	1160.2	1434.4	2133.1	2113.6	1959.0	1841.5	1808.8
82.5°	931.6	766.2	848.9	981.7	973.0	1184.1	1806.6	1795.8	1645.6	1473.6	1421.4
85°	431.0	459.3	672.6	809.7	746.6	877.2	1445.3	1464.9	1282.1	1077.5	1077.5
87.5°	182.8	256.8	476.7	611.6	502.8	592.1	1060.0	1012.2	929.4	644.3	605.1
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)