

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: P318328

Luminaire Tested: **GAN-SA4C-727-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318328
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-SA4C-727-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23867 lumens
Efficiency: N/A
Efficacy: 106.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

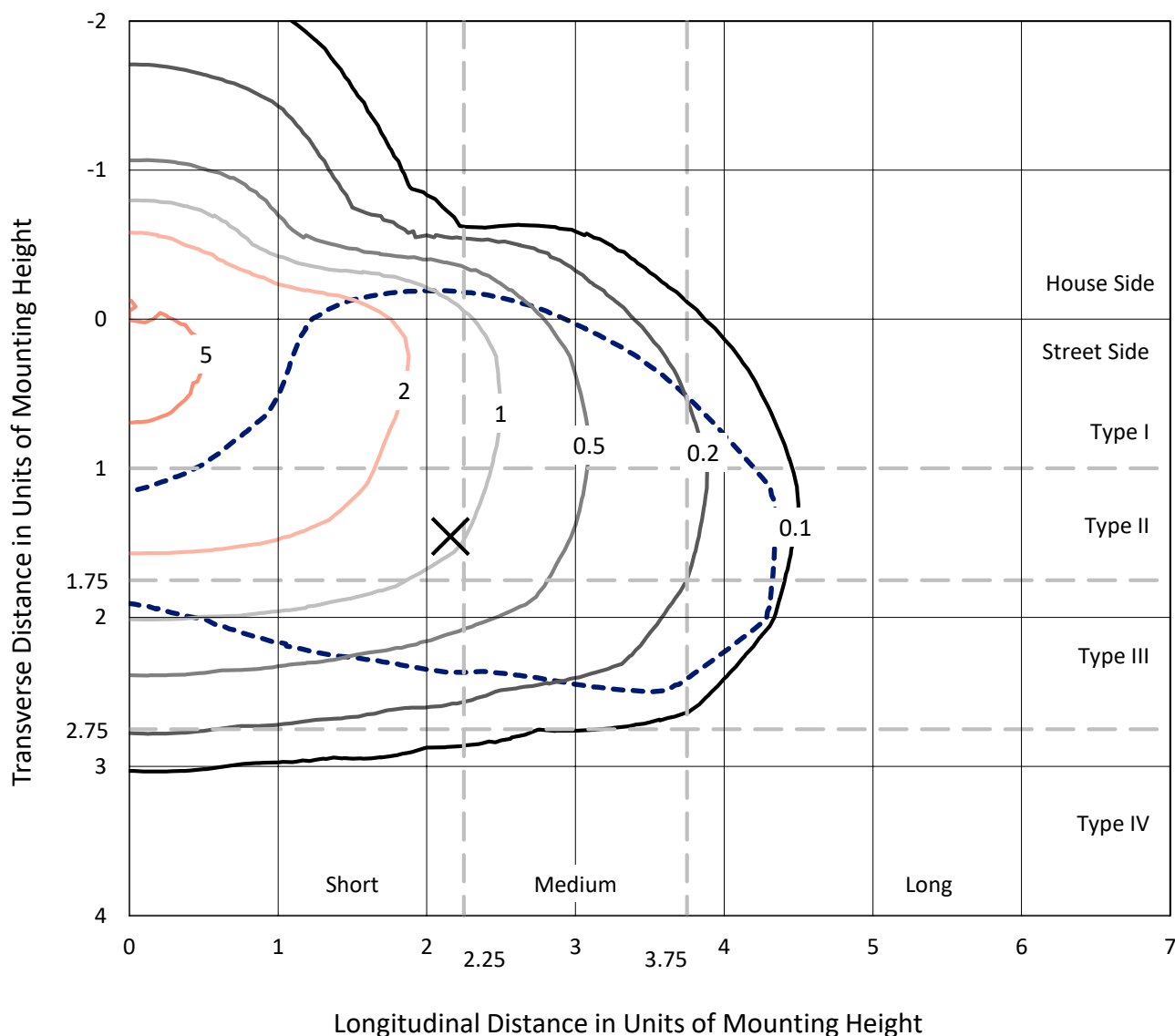
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318328
 CATALOG NUMBER: GAN-SA4C-727-U-T3

Iso-Footcandle Lines of Horizontal Illumination

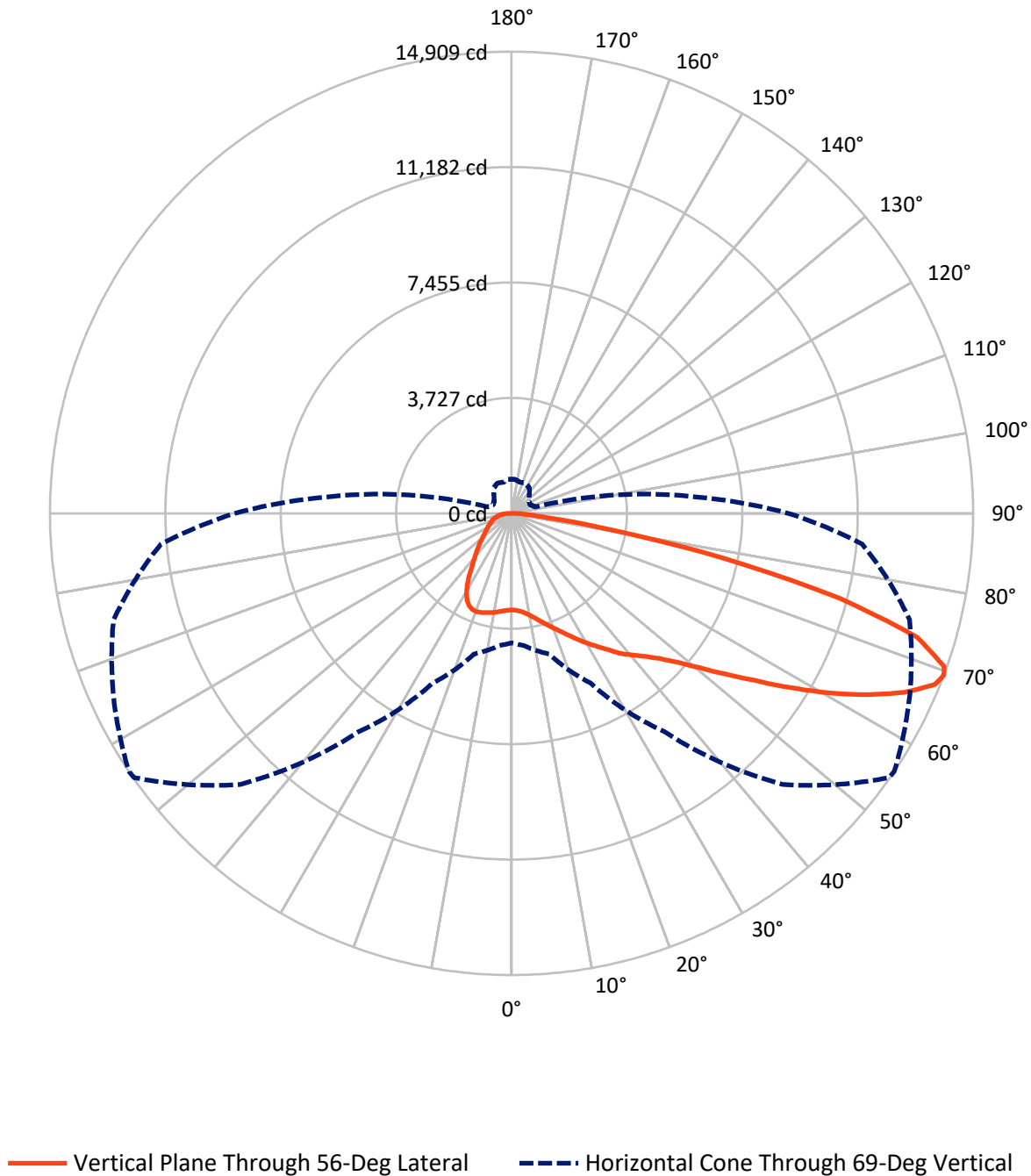
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type III - Short - N/A

REPORT NUMBER: P318328
CATALOG NUMBER: GAN-SA4C-727-U-T3

Luminous Intensity Polar Plot



REPORT NUMBER: P318328

CATALOG NUMBER: GAN-SA4C-727-U-T3

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5315.1	0.0	5315.1
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	18551.9	0.0	18551.9
	% Fixture	77.7	0.0	77.7
Total	Lumens	23867.0	0.0	23867.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.5	1.3
10°-20°	985.5	4.1
20°-30°	1720.2	7.2
30°-40°	2471.0	10.4
40°-50°	3419.8	14.3
50°-60°	5010.4	21.0
60°-70°	6108.7	25.6
70°-80°	3377.3	14.2
80°-90°	467.8	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°	23867.0	100.0
0°-180°	23867.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318328

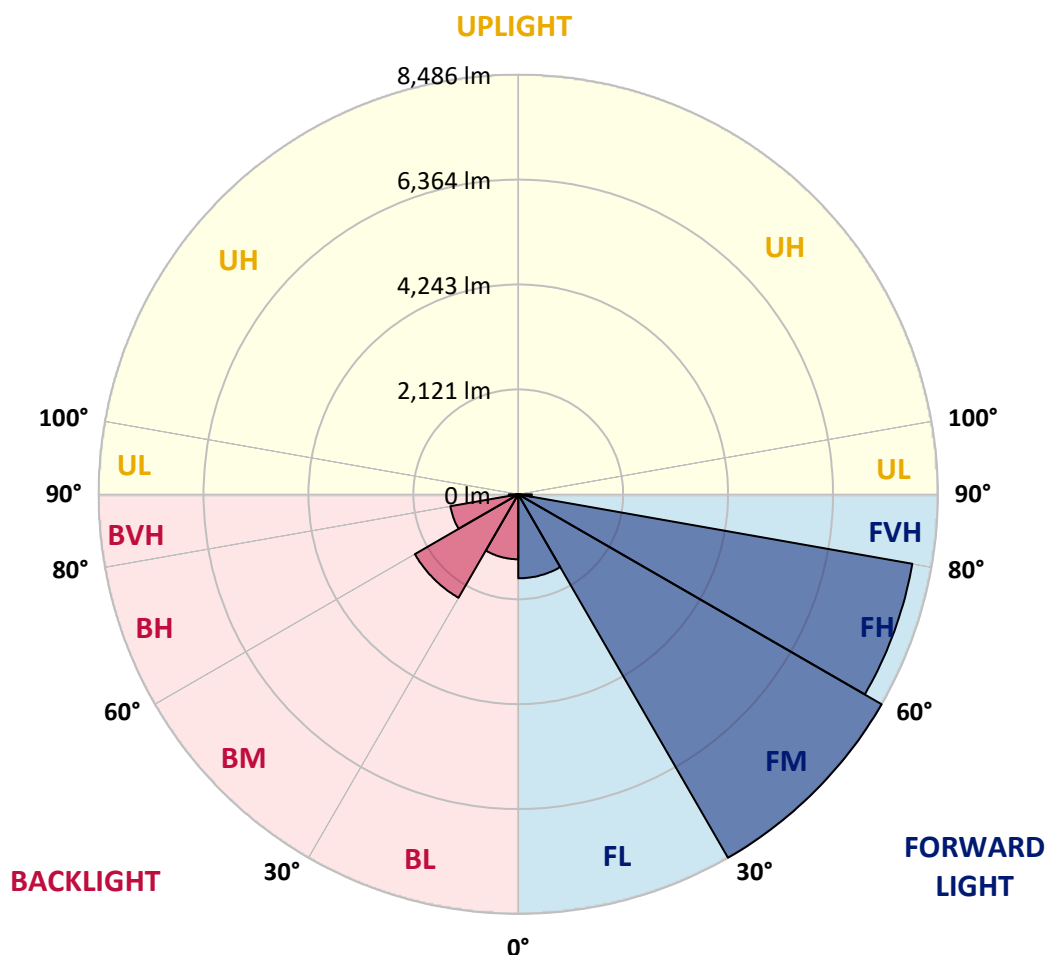
CATALOG NUMBER: GAN-SA4C-727-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1698.6	7.1			
FM	(30°-60°)	8485.6	35.6			
FH	(60°-80°)	8092.1	33.9			G4/12000
FVH	(80°-90°)	275.5	1.2			G3/500
BL	(0°-30°)	1313.5	5.5	B3/2500		
BM	(30°-60°)	2415.6	10.1	B2/2500		
BH	(60°-80°)	1393.8	5.8	B3/2500		G3/2500
BVH	(80°-90°)	192.2	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P318328

CATALOG NUMBER: GAN-SA4C-727-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3
2.5°	3140.0	3143.3	3140.8	3147.4	3140.0	3144.9	3140.8	3140.8	3138.3	3130.9	3122.7
5°	3189.3	3195.9	3191.8	3198.4	3189.3	3191.0	3183.6	3183.6	3176.2	3160.5	3144.1
7.5°	3266.6	3274.0	3270.7	3277.3	3265.0	3265.0	3255.1	3254.3	3239.5	3214.0	3195.1
10°	3358.7	3368.6	3365.3	3375.1	3365.3	3368.6	3358.7	3358.7	3339.0	3302.8	3278.9
12.5°	3492.7	3505.0	3496.0	3495.2	3491.1	3497.6	3489.4	3487.8	3469.7	3420.4	3387.5
15°	3671.9	3685.1	3666.2	3664.5	3641.5	3639.1	3639.1	3636.6	3625.1	3565.9	3511.6
17.5°	3878.3	3882.4	3866.0	3839.7	3810.1	3791.2	3788.7	3795.3	3795.3	3726.2	3639.9
20°	4080.6	4088.0	4074.8	4045.2	4007.4	3979.5	3959.7	3972.9	3972.1	3889.8	3767.3
22.5°	4300.9	4318.2	4298.5	4260.6	4216.2	4185.0	4150.5	4162.0	4162.8	4061.7	3892.3
25°	4586.2	4570.6	4558.3	4504.8	4441.5	4409.5	4377.4	4388.9	4385.6	4246.7	4021.4
27.5°	4838.7	4841.9	4825.5	4768.8	4695.6	4624.9	4623.2	4630.6	4618.3	4439.1	4143.1
30°	5132.2	5133.8	5110.8	5059.8	4980.1	4888.8	4867.4	4879.8	4853.4	4621.6	4271.3
32.5°	5424.1	5432.3	5406.8	5345.1	5281.0	5170.0	5127.2	5135.5	5069.7	4808.2	4403.7
35°	5679.8	5691.3	5683.1	5641.9	5572.1	5476.7	5425.7	5420.8	5339.4	5036.8	4578.8
37.5°	5940.4	5951.1	5942.0	5907.5	5879.6	5778.4	5751.3	5751.3	5609.9	5270.3	4801.7
40°	6208.4	6224.9	6214.2	6166.5	6142.7	6096.6	6031.7	6016.0	5863.1	5550.7	5165.1
42.5°	6457.6	6478.9	6521.7	6493.7	6445.2	6451.8	6321.1	6312.9	6201.0	5965.1	5621.4
45°	6811.1	6842.4	6914.7	6893.3	6883.5	6847.3	6691.9	6684.5	6641.7	6522.5	6187.9
47.5°	7196.7	7239.5	7370.2	7374.3	7480.4	7412.1	7200.8	7175.3	7185.2	7190.1	6879.4
50°	7551.9	7598.8	7813.4	7914.5	8164.5	8179.3	7841.3	7818.3	7856.9	7970.4	7685.1
52.5°	7835.6	7894.8	8162.8	8475.2	8903.6	9025.3	8629.8	8612.6	8641.3	8837.0	8596.1
55°	8043.6	8107.7	8399.6	8968.6	9652.6	9867.2	9537.5	9521.1	9539.2	9788.3	9586.9
57.5°	8092.1	8107.7	8531.2	9300.7	10284.9	10800.4	10648.3	10615.4	10526.6	10743.7	10680.4
60°	7864.3	7926.8	8422.6	9417.5	10774.1	11720.5	11809.3	11768.2	11519.0	11696.6	11645.6
62.5°	7402.3	7514.1	8017.3	9239.9	10965.7	12472.0	12948.0	12898.7	12469.5	12584.6	12339.6
65°	6647.5	6695.2	7223.9	8627.4	10722.3	12952.9	13963.4	13938.8	13398.6	13218.5	12467.8
67.5°	5297.4	5387.1	5836.0	7347.2	9726.6	12896.2	14748.6	14746.2	14005.4	13453.7	12013.2
69°	4185.0	4277.9	4705.5	6052.2	8606.8	12377.4	14880.2	14909.0	14176.4	13310.6	11363.6
70°	3336.5	3444.2	3737.7	5097.6	7612.8	11693.3	14770.8	14822.6	14143.5	13074.6	10764.2
72.5°	1419.9	1507.1	1715.9	2627.8	4639.7	8731.8	13505.5	13701.1	13381.3	11966.3	8896.2
75°	619.9	647.1	741.6	1071.3	2059.6	4752.3	10580.1	10941.8	11441.7	10114.7	6626.9
77.5°	453.9	465.4	517.2	629.0	924.2	1794.9	6803.7	7014.2	8251.6	7360.3	4065.0
80°	351.1	359.3	399.6	462.1	603.5	726.0	3103.0	3283.9	4639.7	3780.5	1692.9
82.5°	279.5	285.3	313.3	340.4	416.9	439.9	1030.2	1142.9	1712.6	1044.2	448.1
85°	259.8	266.4	276.3	248.3	267.2	258.2	445.6	466.2	517.2	410.3	187.5
87.5°	117.6	139.0	273.8	193.2	142.2	113.5	182.5	190.8	214.6	215.4	83.0
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: P318328

CATALOG NUMBER: GAN-SA4C-727-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3	3120.3
2.5°	3127.7	3125.2	3129.3	3119.4	3131.8	3130.9	3126.8	3128.5	3136.7	3135.9	3136.7
5°	3146.6	3144.9	3149.9	3142.5	3157.3	3162.2	3163.0	3170.4	3179.4	3181.9	3181.9
7.5°	3194.2	3194.2	3196.7	3186.8	3196.7	3195.9	3191.8	3199.2	3208.2	3209.0	3208.2
10°	3276.5	3277.3	3273.2	3247.7	3239.5	3217.3	3196.7	3197.5	3209.0	3218.1	3220.6
12.5°	3380.1	3376.8	3358.7	3311.8	3277.3	3232.1	3210.7	3209.9	3221.4	3228.8	3231.2
15°	3498.5	3489.4	3442.6	3366.1	3305.2	3260.8	3226.3	3218.1	3211.5	3203.3	3204.1
17.5°	3610.3	3589.7	3511.6	3405.6	3341.4	3282.2	3215.6	3162.2	3125.2	3103.8	3097.2
20°	3723.7	3683.5	3570.8	3442.6	3361.2	3253.4	3125.2	3016.7	2949.2	2918.0	2912.2
22.5°	3827.3	3762.4	3625.9	3481.2	3345.5	3156.4	2955.0	2797.1	2703.4	2661.5	2664.8
25°	3928.5	3838.0	3683.5	3508.3	3266.6	2985.4	2718.2	2524.2	2415.6	2368.8	2367.1
27.5°	4017.3	3914.5	3745.9	3486.1	3119.4	2742.0	2437.8	2248.7	2158.3	2118.0	2111.4
30°	4119.2	4010.7	3829.0	3401.4	2904.0	2460.8	2164.0	2030.8	1966.7	1926.4	1919.0
32.5°	4243.4	4141.4	3897.2	3247.7	2628.6	2167.3	1950.3	1857.4	1799.0	1753.8	1745.5
35°	4424.3	4314.1	3914.5	3027.3	2326.0	1935.5	1793.2	1697.8	1618.9	1560.5	1554.8
37.5°	4651.2	4530.3	3875.0	2742.0	2032.5	1785.0	1662.5	1544.9	1442.1	1359.9	1346.8
40°	4978.4	4795.9	3765.7	2413.2	1816.2	1669.1	1535.0	1401.0	1273.6	1177.4	1158.5
42.5°	5371.4	5107.5	3597.9	2085.9	1657.6	1551.5	1408.4	1242.3	1120.7	1052.4	1042.6
45°	5871.3	5431.5	3365.3	1799.8	1501.3	1433.9	1271.9	1119.0	1043.4	993.2	985.0
47.5°	6441.9	5794.9	3121.1	1567.1	1369.0	1323.7	1162.6	1063.9	1003.9	964.4	957.0
50°	7143.3	6205.1	2862.1	1376.4	1235.8	1191.4	1110.8	1033.5	985.8	955.4	948.0
52.5°	7934.2	6668.0	2675.4	1225.9	1125.6	1093.5	1083.7	1017.1	978.4	955.4	948.0
55°	8786.0	7139.2	2474.0	1099.3	1030.2	1039.3	1065.6	1018.7	992.4	964.4	953.8
57.5°	9638.7	7625.9	2249.5	992.4	954.6	999.0	1053.2	1022.0	999.8	972.7	962.8
60°	10312.9	7934.2	1901.7	902.8	894.6	954.6	1023.6	997.3	968.6	969.4	967.7
62.5°	10627.8	7917.8	1517.8	823.0	834.5	894.6	976.0	958.7	934.8	966.9	969.4
65°	10451.0	7523.1	1181.5	750.7	770.4	832.1	926.6	939.8	948.0	1009.7	1017.9
67.5°	9709.4	6755.2	915.1	687.4	712.0	789.3	931.6	1023.6	1034.3	1099.3	1098.5
69°	8942.3	6035.0	795.1	654.5	683.2	800.0	995.7	1077.1	1036.8	1105.9	1096.0
70°	8299.3	5465.2	730.9	632.3	670.1	818.9	1038.4	1076.3	1024.5	1083.7	1067.2
72.5°	6391.8	3931.8	619.9	591.2	625.7	783.6	1050.8	1052.4	995.7	1007.2	979.2
75°	4384.0	2484.7	541.0	535.3	558.3	706.3	1011.3	1005.6	920.9	904.4	881.4
77.5°	2417.3	1262.1	459.6	481.8	497.4	625.7	919.2	911.0	841.1	806.6	798.4
80°	932.4	552.5	388.1	428.4	438.2	541.8	805.8	798.4	740.0	695.6	683.2
82.5°	351.9	289.4	320.7	370.8	367.5	447.3	682.4	678.3	621.6	556.6	536.9
85°	162.8	173.5	254.1	305.9	282.0	331.3	545.9	553.3	484.3	407.0	407.0
87.5°	69.1	97.0	180.1	231.0	189.9	223.6	400.4	382.3	351.1	243.4	228.6
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)