

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: P318737

Luminaire Tested: **GAN-SA3D-740-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318737
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-16)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-740-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23831 lumens
Efficiency: N/A
Efficacy: 124.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

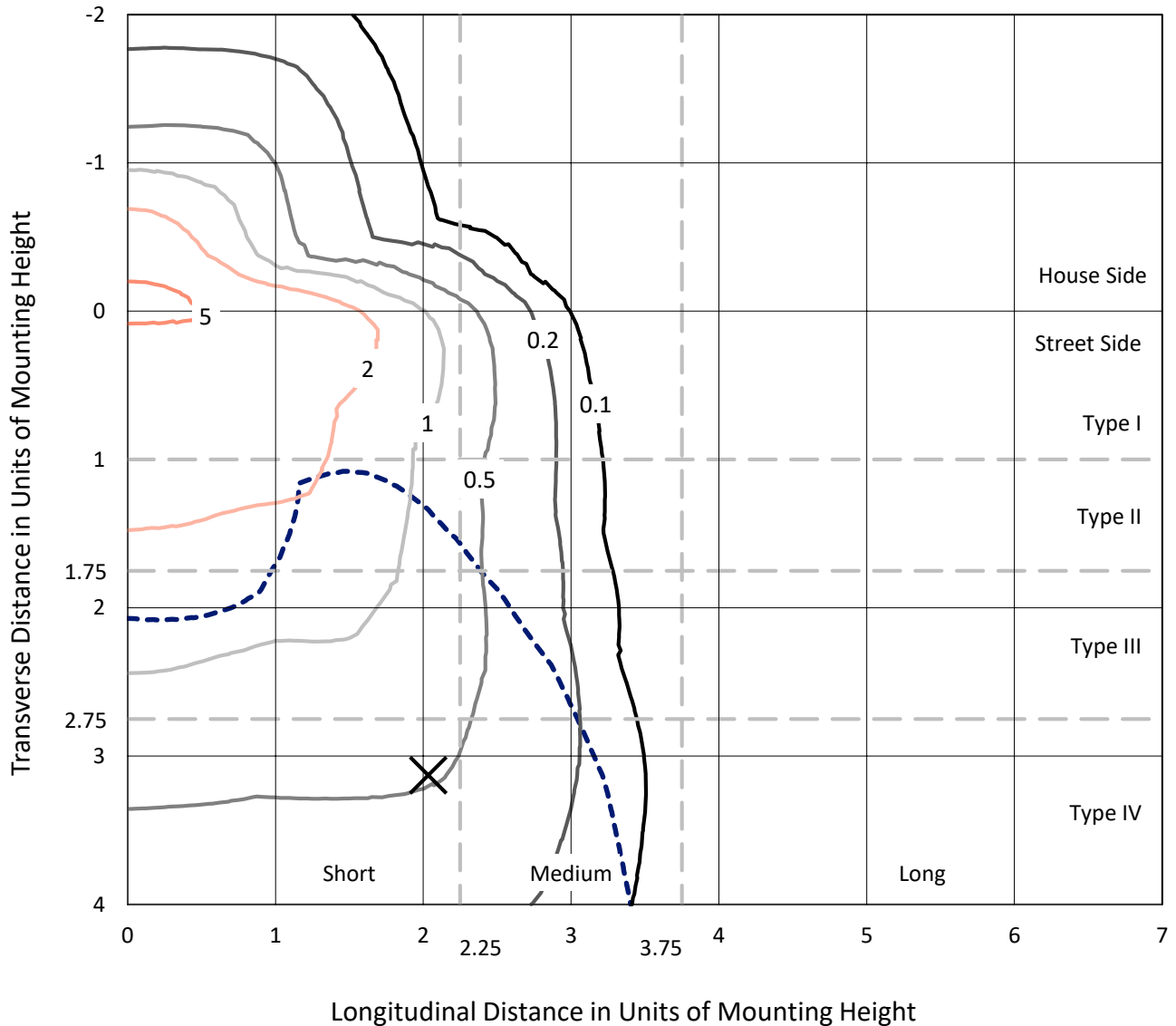
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

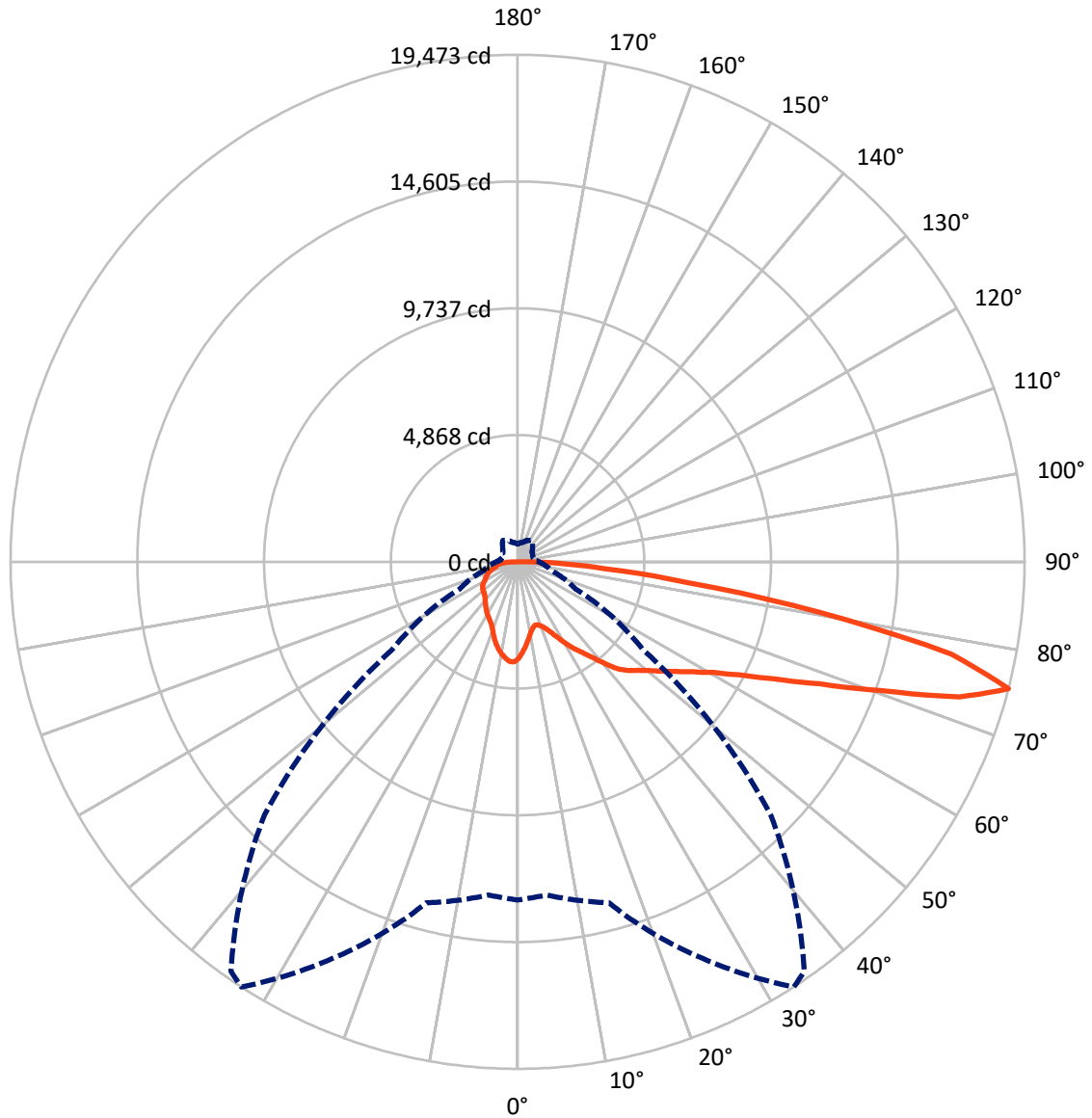
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 33-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5117.1	0.0	5117.1
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	18713.9	0.0	18713.9
	% Fixture	78.5	0.0	78.5
Total	Lumens	23831.0	0.0	23831.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	336.9	1.4
10°-20°	912.4	3.8
20°-30°	1490.1	6.3
30°-40°	2219.1	9.3
40°-50°	3182.7	13.4
50°-60°	4369.4	18.3
60°-70°	5470.3	23.0
70°-80°	4948.7	20.8
80°-90°	901.4	3.8
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°	23831.0	100.0
0°-180°	23831.0	100.0

Coefficient of Utilization



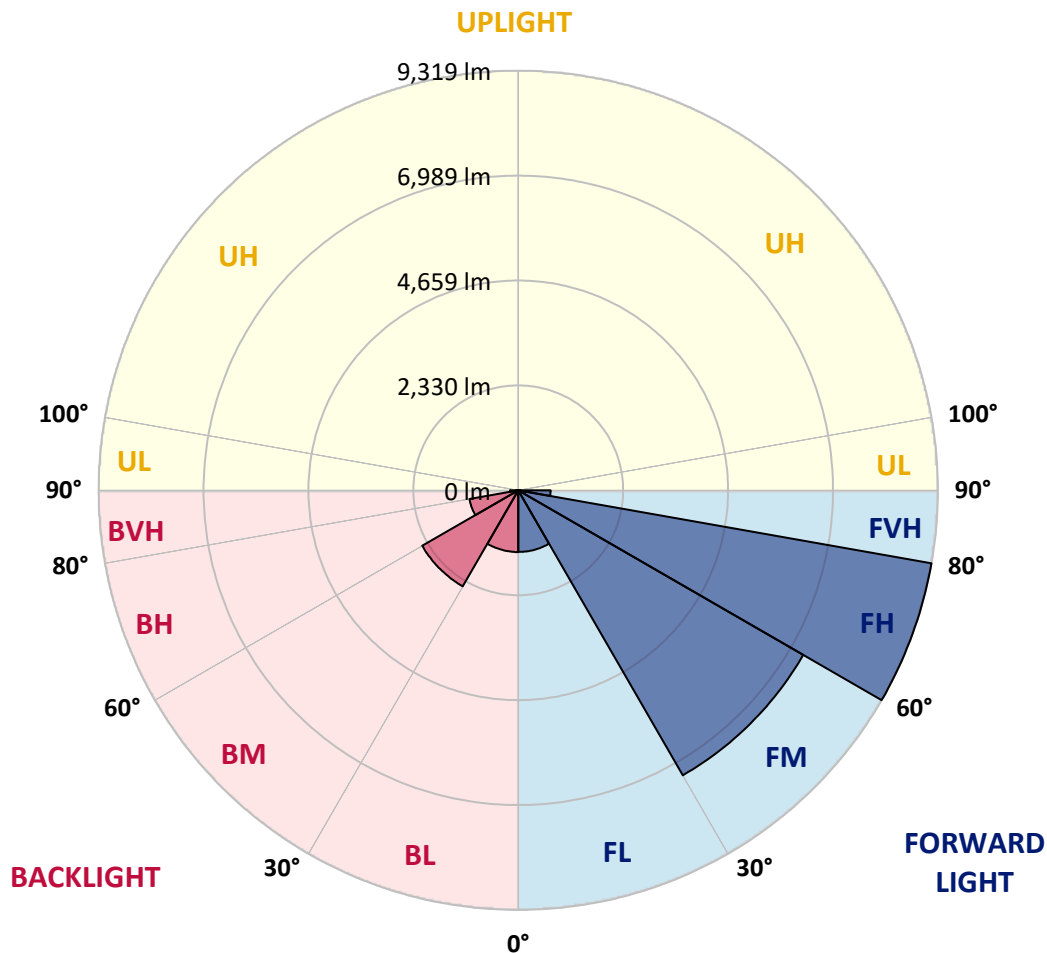
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1368.7	5.7			
FM (30°-60°)	7308.5	30.7			
FH (60°-80°)	9318.8	39.1			G4/12000
FVH (80°-90°)	717.9	3.0			G4/750
BL (0°-30°)	1370.6	5.8	B3/2500		
BM (30°-60°)	2462.7	10.3	B2/2500		
BH (60°-80°)	1100.3	4.6	B3/2500		G3/2500
BVH (80°-90°)	183.5	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9
2.5°	3459.0	3445.9	3470.6	3473.8	3495.2	3503.5	3533.1	3579.2	3617.1	3660.7	3700.2
5°	3145.4	3136.3	3170.9	3195.6	3242.5	3262.3	3332.3	3430.2	3517.5	3616.3	3706.0
7.5°	2847.4	2842.5	2881.2	2937.1	2991.5	3018.6	3139.6	3282.0	3427.7	3587.4	3724.9
10°	2596.3	2594.7	2631.7	2686.9	2766.7	2797.2	2953.6	3141.3	3345.4	3565.2	3757.0
12.5°	2455.6	2461.3	2478.6	2524.7	2598.8	2629.3	2803.0	3023.6	3276.3	3557.8	3803.9
15°	2490.1	2499.2	2469.6	2467.9	2520.6	2544.5	2707.5	2939.6	3226.9	3570.2	3872.3
17.5°	2637.5	2639.1	2560.9	2511.5	2543.6	2556.0	2677.8	2891.9	3198.1	3598.1	3957.9
20°	2844.9	2840.8	2702.5	2620.2	2637.5	2640.8	2719.8	2892.7	3195.6	3646.7	4069.0
22.5°	3119.9	3089.4	2903.4	2791.4	2787.3	2782.4	2827.6	2953.6	3231.8	3725.7	4201.5
25°	3478.8	3450.0	3194.0	3040.9	3007.9	2995.6	3002.2	3083.7	3303.4	3810.5	4349.7
27.5°	3878.0	3827.8	3580.9	3364.4	3296.0	3278.8	3239.2	3267.2	3381.7	3892.0	4525.9
30°	4212.2	4185.1	3969.4	3712.6	3631.9	3607.2	3503.5	3473.0	3494.4	4003.2	4748.1
32.5°	4399.1	4381.0	4250.1	4042.7	3967.8	3933.2	3786.7	3725.7	3675.5	4178.5	5049.4
35°	4625.5	4614.0	4534.9	4384.3	4273.2	4236.9	4123.3	4060.0	3930.7	4419.7	5438.8
37.5°	4913.6	4901.3	4902.9	4781.1	4648.5	4614.8	4539.9	4473.2	4261.6	4736.6	5861.9
40°	5239.6	5215.7	5206.7	5200.9	5116.9	5098.0	5058.5	4967.9	4676.5	5115.3	6279.3
42.5°	5730.2	5645.4	5464.3	5532.6	5615.8	5605.9	5638.0	5507.9	5137.5	5563.1	6686.7
45°	6203.5	6064.4	5751.6	5766.4	5948.3	6003.5	6243.9	6151.7	5637.2	6053.7	7108.2
47.5°	6419.2	6313.8	6048.0	6048.8	6229.1	6343.5	6870.3	6804.5	6162.4	6611.0	7622.7
50°	6660.4	6555.0	6316.3	6406.0	6563.3	6685.1	7475.4	7441.6	6662.0	7221.0	8239.3
52.5°	6923.8	6745.2	6593.7	6754.2	6974.9	7116.4	8081.2	7989.0	7120.6	7835.1	8948.0
55°	6927.1	6878.5	6993.8	7111.5	7441.6	7615.3	8715.9	8472.2	7494.3	8438.5	9525.1
57.5°	7321.4	7242.4	7486.9	7541.2	7972.6	8168.5	9347.3	8892.9	7874.6	8901.1	9836.3
60°	7843.3	7775.8	7975.9	8119.1	8629.5	8891.2	10021.5	9325.1	8173.4	9250.1	9821.4
62.5°	8744.7	8668.2	8665.7	8866.5	9553.9	9858.5	10778.0	9749.0	8292.0	9319.3	9402.4
65°	10064.3	9942.4	9712.8	9808.3	10830.7	11134.4	11623.4	10056.0	8135.6	8948.9	8323.2
67.5°	11348.4	11344.3	11062.0	11257.9	12516.6	12760.2	12586.5	10086.5	7647.4	7658.9	6408.5
70°	12628.5	12645.0	12597.2	13278.8	14794.3	15047.8	13612.2	9677.4	6550.1	5531.0	3839.3
72.5°	13642.7	13638.6	13878.9	15636.4	17750.4	17693.6	14476.6	8437.7	4702.9	2985.7	1834.9
75°	12985.8	12842.5	13558.7	16803.7	19473.3	19195.9	13741.5	5885.8	2440.7	1359.1	987.8
77.5°	8469.8	8605.6	9656.8	13881.4	17033.4	16695.9	10081.6	2746.2	1150.0	891.5	716.2
80°	3067.2	3210.4	4521.8	7863.1	11735.3	11680.2	4964.6	1128.6	777.9	673.4	521.9
82.5°	1055.3	1108.0	1783.8	3492.0	6625.8	6872.8	1867.8	641.3	565.5	477.4	357.3
85°	414.1	474.2	815.8	1680.1	3342.1	3366.8	756.5	383.6	393.5	312.8	195.9
87.5°	157.2	191.0	390.2	780.4	1526.2	1401.9	270.8	182.7	223.9	186.0	93.0
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°	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9	3724.9
2.5°	3730.7	3748.0	3784.2	3808.9	3835.2	3842.6	3845.9	3852.5	3859.1	3856.6	3857.5
5°	3753.7	3787.5	3845.9	3870.6	3882.1	3869.0	3843.5	3822.9	3808.1	3799.8	3797.4
7.5°	3791.6	3839.3	3901.9	3897.8	3871.4	3813.0	3747.1	3697.8	3656.6	3641.8	3633.5
10°	3841.8	3897.8	3941.4	3894.5	3817.9	3716.7	3617.9	3541.3	3479.6	3455.7	3451.6
12.5°	3906.0	3962.8	3971.1	3871.4	3744.7	3606.4	3472.2	3370.9	3278.8	3249.1	3242.5
15°	3989.2	4042.7	3991.6	3831.1	3654.1	3468.1	3294.4	3156.9	3059.8	3023.6	3010.4
17.5°	4076.4	4127.5	3995.7	3764.4	3535.6	3304.3	3086.1	2945.4	2834.2	2792.2	2787.3
20°	4181.0	4204.0	3978.5	3668.9	3372.6	3091.9	2862.2	2729.7	2670.4	2640.8	2637.5
22.5°	4310.2	4285.5	3938.9	3539.7	3166.0	2846.6	2659.7	2598.0	2583.2	2576.6	2579.0
25°	4446.9	4371.1	3880.5	3370.9	2905.0	2601.3	2511.5	2528.8	2548.6	2546.1	2546.1
27.5°	4597.5	4458.4	3790.8	3147.0	2616.1	2400.4	2411.1	2474.5	2504.1	2503.3	2502.5
30°	4790.9	4557.2	3676.4	2877.9	2346.1	2258.8	2323.9	2401.2	2441.6	2439.9	2440.7
32.5°	5028.8	4665.8	3520.8	2577.4	2151.0	2154.3	2229.2	2305.7	2352.7	2348.6	2349.4
35°	5307.1	4787.7	3310.0	2281.0	2021.7	2071.1	2130.4	2183.9	2228.4	2222.6	2216.8
37.5°	5610.0	4907.0	3030.1	2016.0	1916.4	1993.8	2043.1	2052.2	2072.8	2058.0	2047.3
40°	5898.1	4998.4	2669.6	1798.7	1810.2	1927.9	1960.0	1923.8	1886.7	1881.8	1867.0
42.5°	6149.2	5028.8	2304.9	1625.0	1698.2	1858.8	1878.5	1802.8	1736.1	1704.8	1691.6
45°	6414.3	5039.5	1964.9	1479.3	1590.4	1797.0	1818.4	1717.2	1623.3	1555.8	1533.6
47.5°	6760.8	5116.9	1700.7	1371.4	1508.1	1755.9	1786.3	1648.8	1527.0	1430.7	1410.1
50°	7214.4	5270.0	1485.9	1289.1	1454.6	1728.7	1763.3	1582.2	1448.0	1331.9	1311.3
52.5°	7718.2	5410.8	1312.2	1222.4	1402.7	1680.9	1733.6	1534.4	1373.9	1240.5	1218.3
55°	8070.5	5303.0	1172.2	1153.3	1335.2	1612.6	1692.5	1494.1	1267.7	1151.6	1131.9
57.5°	8138.0	4934.2	1066.0	1081.7	1253.7	1527.0	1629.1	1404.4	1210.1	1112.9	1092.4
60°	7953.6	4420.5	987.0	1015.8	1166.5	1419.2	1510.5	1341.0	1154.9	1071.8	1054.5
62.5°	7490.2	3894.5	928.6	956.5	1085.0	1309.7	1436.5	1274.3	1099.0	1024.9	1007.6
65°	6554.2	3269.7	872.6	903.9	1009.2	1215.0	1369.8	1212.6	1043.8	987.0	970.5
67.5°	4947.4	2449.0	819.9	847.9	941.7	1132.7	1297.3	1151.6	990.3	954.1	934.3
70°	2913.3	1533.6	759.8	789.4	870.9	1047.1	1220.0	1085.0	923.6	907.2	881.6
72.5°	1355.8	922.8	691.5	720.3	782.0	932.7	1120.4	997.7	844.6	808.4	773.8
75°	809.2	675.0	610.8	636.3	680.0	810.8	995.2	908.8	769.7	721.9	685.7
77.5°	605.0	516.1	521.9	549.1	584.5	709.6	881.6	838.8	712.1	675.0	650.3
80°	435.5	391.8	425.6	455.2	492.3	645.4	844.6	775.4	643.7	594.3	571.3
82.5°	290.6	281.5	320.2	350.7	386.9	564.7	793.6	679.1	549.9	487.3	436.3
85°	160.5	169.6	215.7	228.8	260.1	397.6	650.3	545.8	414.1	333.4	318.6
87.5°	66.7	78.2	116.1	112.0	138.3	237.1	428.1	329.3	263.4	196.7	153.1
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)