

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: P319138

Luminaire Tested: **GAN-SA4D-760-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319138
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4D-760-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31080 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

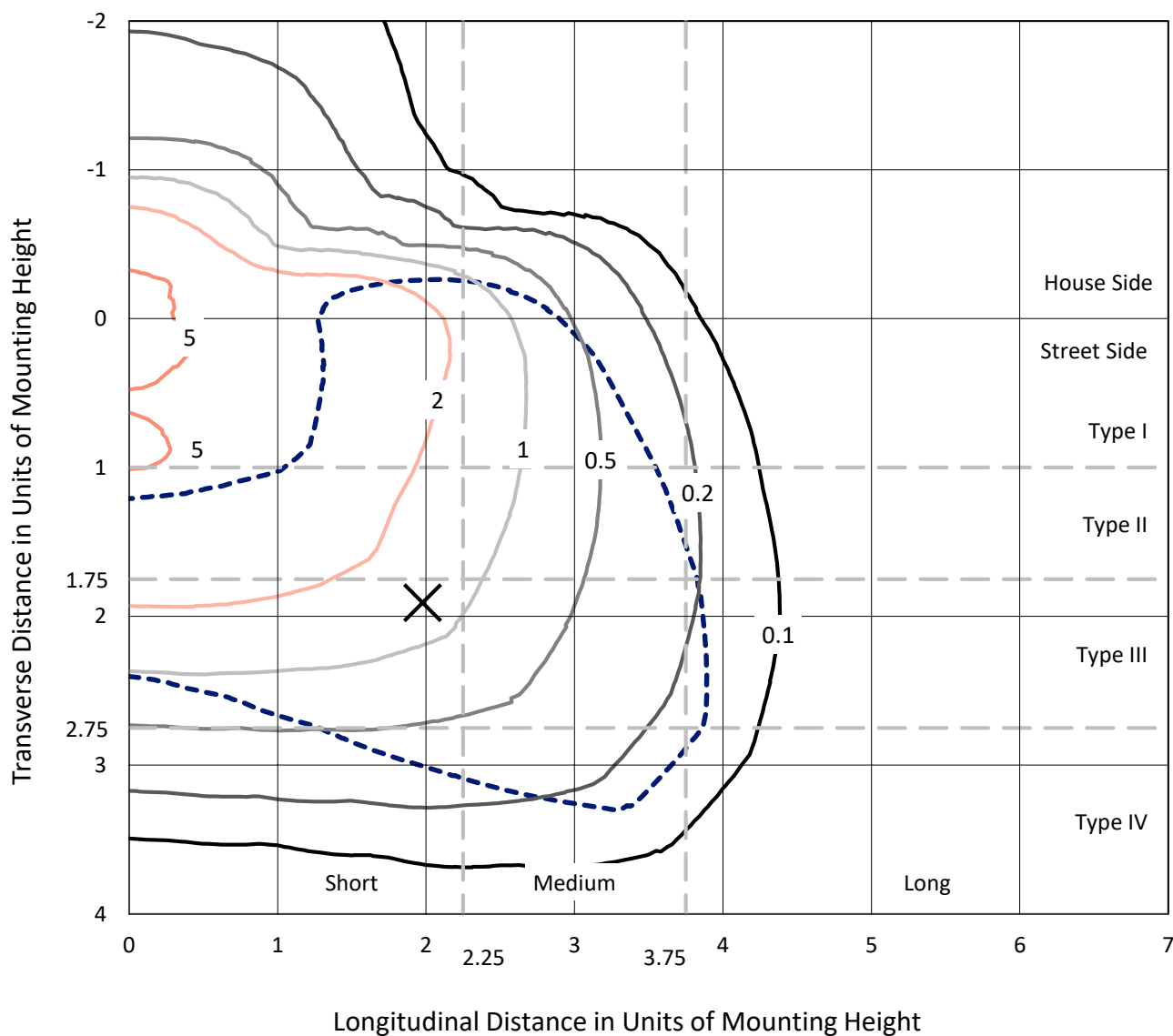
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

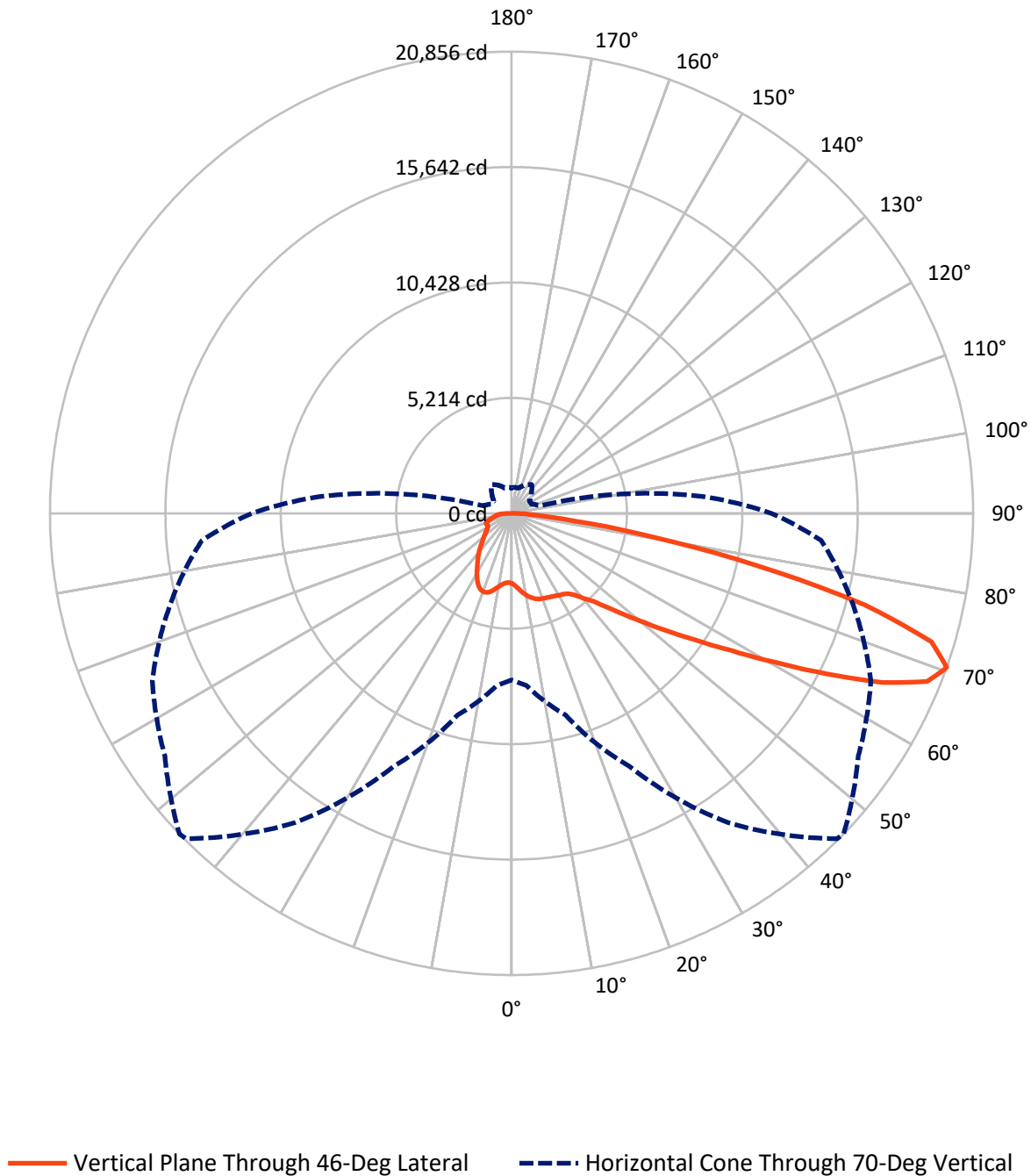
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7123.4	0.0	7123.4
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	23956.6	0.0	23956.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	31080.0	0.0	31080.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	322.8	1.0
10°-20°	1075.5	3.5
20°-30°	1793.2	5.8
30°-40°	2544.7	8.2
40°-50°	3743.1	12.0
50°-60°	6338.9	20.4
60°-70°	8997.9	29.0
70°-80°	5466.3	17.6
80°-90°	797.7	2.6
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°	31080.0	100.0
0°-180°	31080.0	100.0

Coefficient of Utilization



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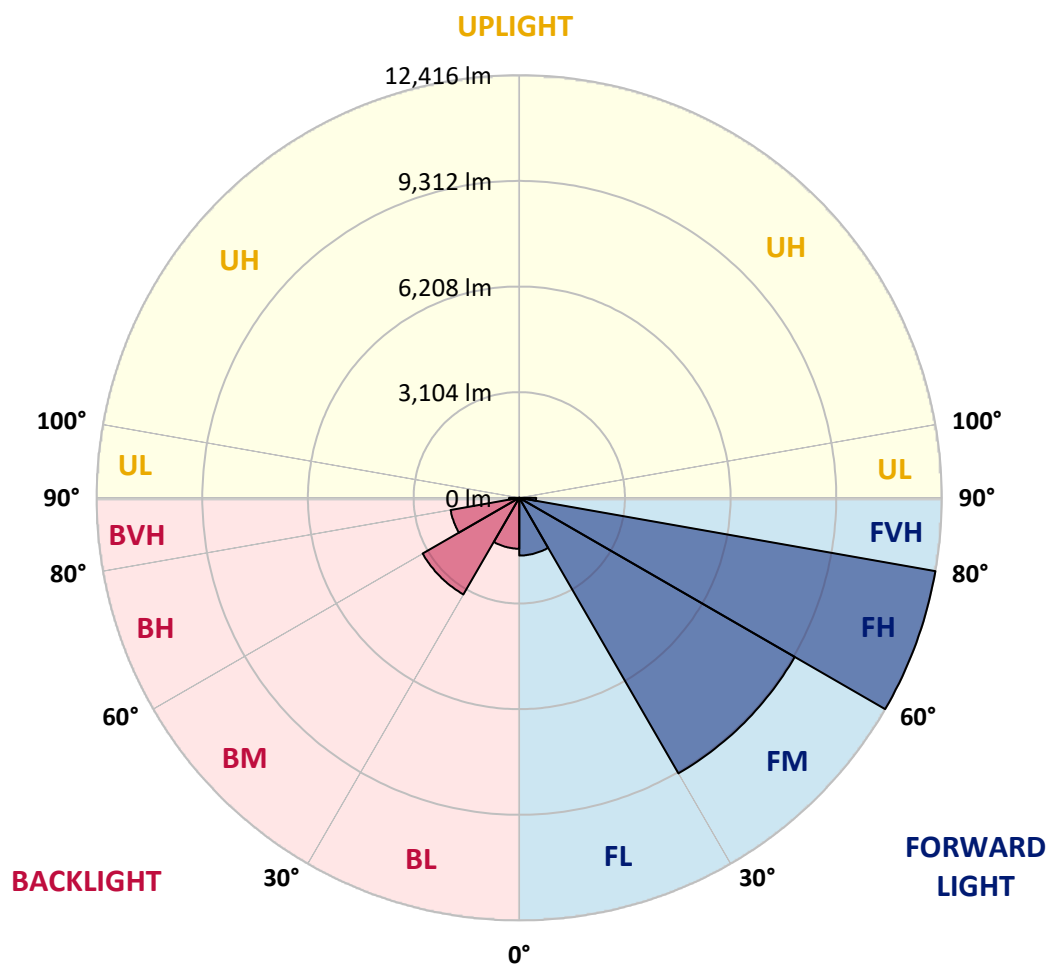
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1695.9	5.5			
FM	(30°-60°)	9347.5	30.1			
FH	(60°-80°)	12416.3	39.9			G5
FVH	(80°-90°)	496.9	1.6			G3/500
BL	(0°-30°)	1495.6	4.8	B3/2500		
BM	(30°-60°)	3279.1	10.6	B3/5000		
BH	(60°-80°)	2047.9	6.6	B3/2500		G3/2500
BVH	(80°-90°)	300.8	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	3166.4	3166.4	3166.4	3166.4	3166.4	3166.4	3166.4	3166.4	3166.4	3166.4	3166.4
2.5°	3324.9	3327.1	3331.3	3320.7	3290.9	3282.4	3279.2	3248.3	3228.1	3198.4	3172.8
5°	3590.8	3593.0	3586.6	3556.8	3490.9	3441.9	3437.7	3367.5	3303.7	3235.6	3184.5
7.5°	3868.4	3871.6	3851.4	3795.1	3702.5	3617.4	3612.1	3516.4	3419.6	3316.4	3239.8
10°	4114.1	4101.4	4068.4	3989.7	3880.1	3775.9	3771.7	3671.7	3560.0	3435.5	3333.4
12.5°	4277.9	4267.3	4224.8	4129.0	4008.8	3913.1	3904.6	3812.1	3703.6	3567.4	3445.1
15°	4368.4	4375.8	4318.4	4209.9	4092.9	4012.0	4004.6	3938.6	3841.9	3704.6	3564.2
17.5°	4380.1	4386.4	4331.1	4223.7	4128.0	4072.7	4069.5	4025.9	3955.7	3823.8	3677.0
20°	4312.0	4316.2	4270.5	4182.2	4119.5	4102.4	4101.4	4082.2	4030.1	3913.1	3770.6
22.5°	4213.1	4216.3	4183.3	4119.5	4098.2	4124.8	4132.2	4124.8	4087.6	3978.0	3844.0
25°	4188.6	4186.5	4152.4	4087.6	4105.6	4162.0	4171.6	4174.8	4149.2	4053.5	3937.6
27.5°	4306.7	4299.2	4234.3	4130.1	4141.8	4209.9	4222.6	4253.5	4237.5	4153.5	4043.9
30°	4648.1	4635.3	4502.4	4291.8	4234.3	4269.4	4285.4	4334.3	4337.5	4267.3	4185.4
32.5°	5224.6	5208.6	4970.4	4593.8	4390.7	4330.1	4345.0	4418.3	4457.7	4403.5	4315.2
35°	5953.2	5935.1	5622.4	5107.6	4652.3	4446.0	4456.6	4515.1	4593.8	4517.3	4400.3
37.5°	6712.6	6669.0	6368.0	5711.7	5068.2	4693.8	4693.8	4701.3	4738.5	4579.0	4500.2
40°	7467.8	7424.2	7151.9	6422.2	5606.4	5084.2	5059.7	4894.9	4865.1	4727.9	4701.3
42.5°	8169.8	8157.0	7996.4	7225.3	6238.2	5468.2	5434.1	5154.4	5160.8	5075.7	5076.7
45°	8916.5	8916.5	8785.6	8035.8	6974.3	6085.1	6051.0	5639.4	5703.2	5663.9	5758.5
47.5°	9525.9	9545.1	9527.0	8880.3	7830.5	6869.0	6807.3	6311.6	6490.3	6625.4	6900.9
50°	10148.1	10177.9	10181.1	9806.7	8865.4	7800.7	7730.5	7204.0	7602.9	7990.0	8531.4
52.5°	11051.2	11118.2	10851.2	10731.0	10133.3	8906.9	8837.7	8351.7	9017.5	9561.0	10493.8
55°	11888.3	11829.8	11639.4	11713.8	11490.5	10166.2	10114.1	9687.6	10593.8	11300.1	12511.5
57.5°	12341.4	12337.1	12528.6	12847.7	12954.0	11719.1	11675.5	11260.7	12371.1	12901.9	14405.9
60°	12873.2	12880.6	13355.0	14079.3	14517.6	13652.8	13633.7	13318.8	14097.4	14397.4	15891.8
62.5°	12947.6	13081.7	13898.5	15145.1	15981.1	15912.0	15954.5	15172.8	15641.8	15590.8	17001.2
65°	12091.4	12268.0	13746.4	15467.4	17436.2	18382.8	18422.2	17037.3	16859.7	16610.8	17397.9
67.5°	10336.4	10598.1	12204.2	14766.5	17915.9	20209.1	20264.4	18482.8	17870.1	16956.5	16442.7
70°	7522.0	7812.4	9429.1	12611.5	17060.7	20793.0	20855.8	19122.0	17908.4	15972.6	14036.8
72.5°	4543.9	4771.5	6104.2	9284.5	14399.5	19729.4	19841.1	18311.6	16350.2	13529.4	10365.1
75°	1995.4	2144.3	2951.6	5350.1	10308.8	16323.6	16463.0	15673.7	13284.8	9832.2	6126.5
77.5°	849.8	892.4	1210.4	2324.0	5827.7	11154.3	11345.8	11452.2	9013.2	5350.1	2588.9
80°	529.7	546.7	685.0	1051.9	2727.2	6264.8	6471.2	6738.1	4475.8	1966.7	904.1
82.5°	322.3	341.4	455.2	636.1	1420.0	2839.9	2938.8	3127.1	1736.9	849.8	468.0
85°	193.6	207.4	278.7	402.1	808.4	1116.8	1115.8	1233.8	817.9	546.7	246.8
87.5°	92.5	103.2	148.9	208.5	407.4	419.1	392.5	444.6	496.7	358.4	124.4
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°	3166.4	3166.4	3166.4	3166.4	3166.4	3166.4	3166.4	3166.4	3166.4	3166.4	3166.4
2.5°	3164.3	3160.1	3146.2	3135.6	3133.5	3127.1	3121.8	3125.0	3129.2	3130.3	3130.3
5°	3163.3	3151.6	3133.5	3126.0	3135.6	3148.4	3164.3	3185.6	3198.4	3207.9	3214.3
7.5°	3214.3	3192.0	3171.8	3167.5	3186.7	3220.7	3256.9	3301.5	3332.4	3353.6	3357.9
10°	3299.4	3271.7	3251.5	3255.8	3289.8	3338.8	3389.8	3447.2	3494.0	3522.8	3524.9
12.5°	3397.3	3370.7	3351.5	3369.6	3426.0	3485.5	3538.7	3588.7	3631.3	3660.0	3660.0
15°	3510.0	3490.9	3468.5	3510.0	3586.6	3639.8	3662.1	3686.6	3710.0	3731.2	3727.0
17.5°	3618.5	3600.4	3588.7	3637.6	3717.4	3741.9	3727.0	3708.9	3708.9	3720.6	3722.7
20°	3712.1	3696.1	3703.6	3751.4	3792.9	3767.4	3712.1	3654.7	3631.3	3637.6	3644.0
22.5°	3794.0	3786.5	3808.9	3831.2	3801.4	3712.1	3610.0	3532.3	3503.6	3501.5	3503.6
25°	3889.7	3888.7	3916.3	3875.9	3744.0	3579.1	3441.9	3366.4	3350.5	3363.2	3384.5
27.5°	4008.8	4020.5	4034.4	3886.5	3627.0	3378.1	3238.8	3186.7	3202.6	3233.5	3253.7
30°	4160.9	4192.9	4163.1	3859.9	3458.9	3148.4	3015.4	3000.5	3044.1	3087.7	3109.0
32.5°	4308.8	4358.8	4286.5	3790.8	3242.0	2904.8	2801.6	2797.4	2850.5	2893.1	2922.9
35°	4427.9	4526.8	4379.0	3653.6	2990.9	2680.4	2604.8	2576.1	2595.3	2645.3	2679.3
37.5°	4583.2	4748.1	4442.8	3444.1	2718.7	2495.3	2407.0	2341.1	2324.0	2344.3	2361.3
40°	4867.2	5085.2	4472.6	3151.6	2452.7	2310.2	2220.9	2124.1	2057.1	2008.1	2009.2
42.5°	5330.9	5524.5	4453.4	2796.3	2207.0	2129.4	2028.4	1916.7	1808.2	1697.6	1689.1
45°	6084.0	6177.6	4396.0	2419.8	1991.1	1940.1	1845.4	1733.7	1589.1	1463.6	1451.9
47.5°	7289.1	7081.7	4306.7	2091.1	1800.7	1779.5	1692.2	1563.5	1410.4	1309.3	1300.8
50°	8932.4	8386.8	4263.1	1829.5	1632.7	1639.1	1567.8	1431.7	1287.0	1212.5	1204.0
52.5°	10898.0	9906.7	4347.1	1627.4	1497.6	1519.9	1466.8	1339.1	1217.9	1159.4	1150.9
55°	12937.0	11480.9	4437.5	1480.6	1370.0	1413.6	1395.5	1290.2	1180.6	1126.4	1118.9
57.5°	14682.4	12656.2	4256.7	1361.5	1256.2	1324.2	1340.2	1259.3	1161.5	1112.6	1104.1
60°	15781.2	13129.5	3782.3	1249.8	1165.7	1253.0	1308.3	1250.8	1168.9	1164.7	1158.3
62.5°	16302.3	13088.0	3070.7	1161.5	1109.4	1222.1	1331.7	1298.7	1254.0	1292.3	1295.5
65°	16068.3	12462.6	2286.8	1103.0	1069.0	1233.8	1401.9	1389.1	1278.5	1316.8	1322.1
67.5°	14528.2	10970.3	1693.3	1051.9	1024.3	1266.8	1529.5	1418.9	1230.6	1258.3	1241.3
70°	11742.5	8697.3	1306.1	994.5	978.5	1262.5	1586.9	1400.8	1178.5	1184.9	1139.2
72.5°	8097.5	5930.8	1062.6	941.3	912.6	1150.9	1546.5	1356.1	1134.9	1086.0	1025.3
75°	4403.5	3183.5	903.0	886.0	796.7	1010.5	1472.1	1324.2	1095.5	1030.7	996.6
77.5°	1732.7	1321.0	783.9	810.5	696.7	892.4	1389.1	1263.6	1041.3	956.2	939.2
80°	707.3	674.3	649.9	700.9	598.8	780.7	1289.1	1192.3	976.4	887.1	853.0
82.5°	401.0	419.1	505.2	553.1	486.1	719.0	1241.3	1134.9	898.8	794.5	754.1
85°	205.3	245.7	352.1	396.7	357.4	611.6	1143.4	993.4	721.1	608.4	611.6
87.5°	98.9	137.2	222.3	248.9	231.9	442.5	854.1	720.1	561.6	444.6	430.8
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)