

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: P193175

Luminaire Tested: **GAN-AF-07-LED-U-T3-7030-600-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193175
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-07-LED-U-T3-7030-600-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26835.2 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

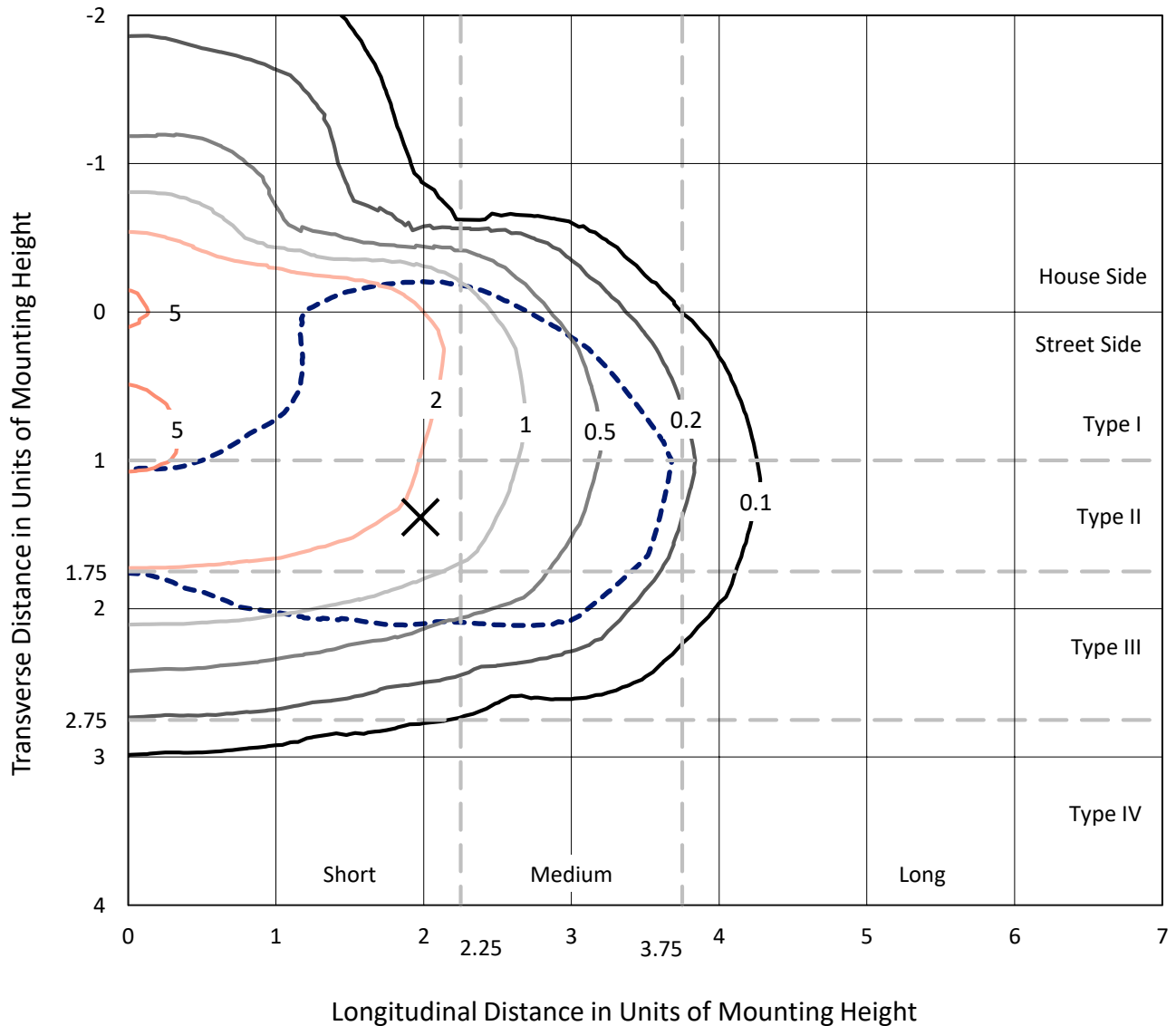
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P193175
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

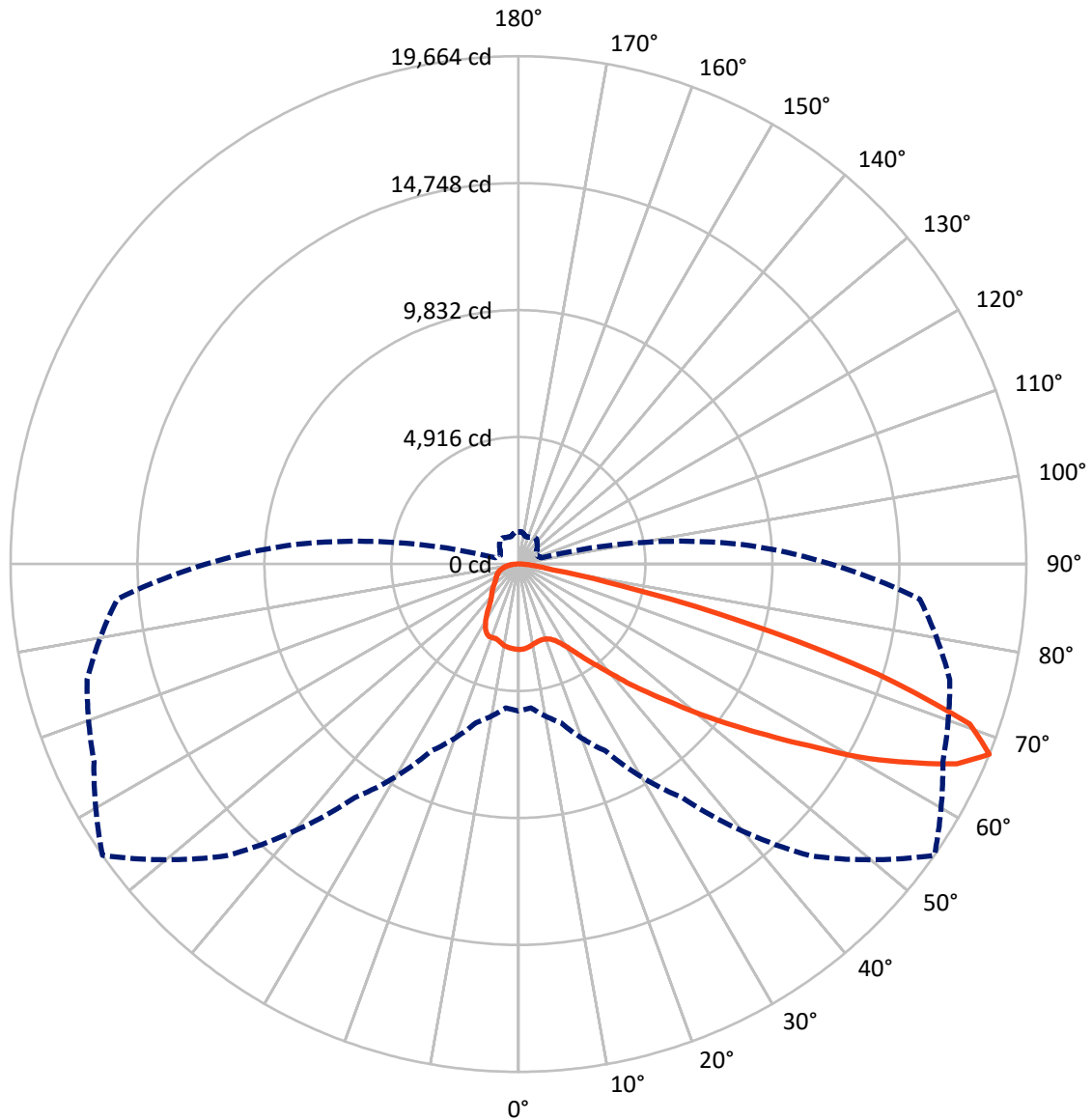


Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P193175

CATALOG NUMBER: GAN-AF-07-LED-U-T3-7030-600-ADJ

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical



REPORT NUMBER: P193175

CATALOG NUMBER: GAN-AF-07-LED-U-T3-7030-600-ADJ

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5797.0	0.0	5797.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	21038.2	0.0	21038.2
	% Fixture	78.4	0.0	78.4
Total	Lumens	26835.2	0.0	26835.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	308.9	1.2
10°-20°	874.8	3.3
20°-30°	1465.3	5.5
30°-40°	2409.6	9.0
40°-50°	4056.1	15.1
50°-60°	6384.1	23.8
60°-70°	7618.7	28.4
70°-80°	3271.6	12.2
80°-90°	446.1	1.7
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°	26835.2	100.0
0°-180°	26835.2	100.0

Coefficient of Utilization



REPORT NUMBER: P193175

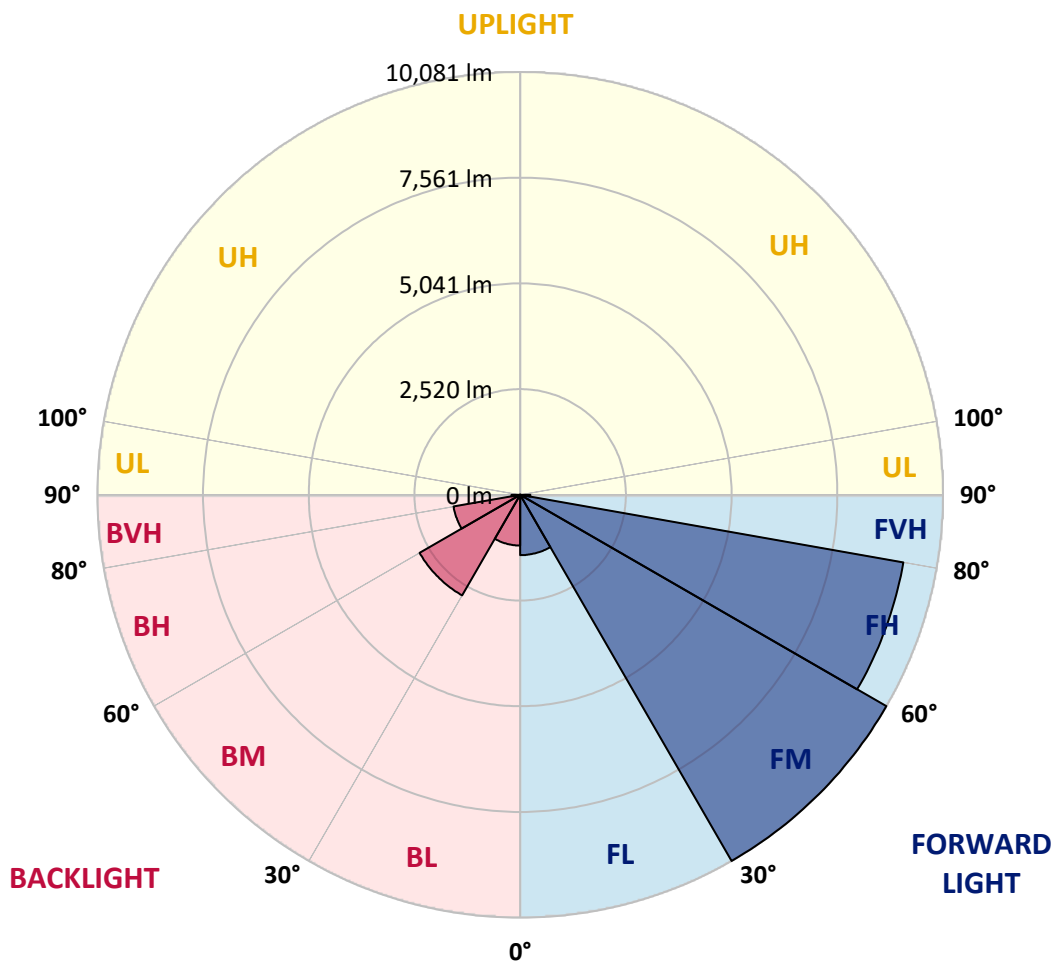
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1438.4	5.4			
FM	(30°-60°)	10081.3	37.6			
FH	(60°-80°)	9277.0	34.6			G4/12000
FVH	(80°-90°)	241.5	0.9			G3/500
BL	(0°-30°)	1210.5	4.5	B3/2500		
BM	(30°-60°)	2768.6	10.3	B3/5000		
BH	(60°-80°)	1613.3	6.0	B3/2500		G3/2500
BVH	(80°-90°)	204.6	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: P193175

CATALOG NUMBER: GAN-AF-07-LED-U-T3-7030-600-ADJ

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3309.0	3309.0	3309.0	3309.0	3309.0	3309.0	3309.0	3309.0	3309.0	3309.0	3309.0
2.5°	3280.5	3281.8	3284.5	3294.8	3303.9	3301.3	3302.6	3297.5	3296.2	3288.3	3296.2
5°	3239.1	3243.0	3244.2	3261.1	3271.4	3274.1	3270.2	3263.7	3255.9	3248.2	3252.0
7.5°	3144.5	3154.9	3156.2	3179.5	3196.3	3218.3	3219.7	3221.0	3217.0	3211.9	3219.7
10°	3084.8	3087.4	3086.1	3103.0	3116.0	3140.5	3154.9	3179.5	3189.9	3192.4	3197.6
12.5°	3080.9	3078.4	3074.4	3074.4	3070.6	3080.9	3106.9	3141.9	3166.5	3174.3	3180.7
15°	3122.4	3121.1	3108.2	3088.8	3064.0	3056.3	3078.4	3117.2	3149.6	3166.5	3173.0
17.5°	3215.7	3208.0	3187.2	3143.2	3090.1	3069.3	3071.9	3104.3	3141.9	3163.9	3170.3
20°	3386.8	3386.8	3342.8	3259.9	3165.2	3116.0	3092.6	3112.0	3148.3	3178.2	3187.2
22.5°	3682.4	3685.0	3611.0	3475.0	3315.6	3210.6	3152.2	3148.3	3191.1	3224.8	3235.1
25°	4101.0	4090.6	3987.0	3792.5	3550.2	3376.4	3275.4	3252.0	3288.3	3326.0	3338.9
27.5°	4588.4	4550.7	4427.6	4193.1	3879.4	3625.3	3469.7	3432.2	3467.3	3510.0	3522.9
30°	5070.5	5031.6	4885.2	4628.6	4279.9	3958.5	3735.5	3674.6	3723.9	3784.7	3792.5
32.5°	5552.7	5552.7	5389.4	5090.0	4710.1	4356.3	4089.3	4016.8	4098.5	4172.3	4189.1
35°	6129.5	6132.0	5974.0	5613.6	5205.3	4830.8	4536.6	4483.4	4606.5	4658.4	4698.5
37.5°	6838.5	6852.7	6649.3	6213.8	5766.6	5372.5	5022.5	4950.0	5073.1	5214.4	5344.0
40°	7604.6	7622.7	7398.4	6861.8	6414.6	6002.4	5624.0	5493.1	5697.9	5967.5	6134.7
42.5°	8335.5	8428.8	8212.4	7660.2	7179.3	6753.0	6369.3	6178.7	6435.4	6842.4	6987.5
45°	9391.9	9459.3	9082.0	8581.8	8129.4	7652.5	7144.4	6943.4	7302.5	7815.8	7845.6
47.5°	10095.7	10045.2	9853.3	9542.2	9255.8	8809.9	8045.2	7824.8	8301.8	8905.8	8738.7
50°	10470.4	10485.8	10459.9	10478.1	10488.5	10208.4	9149.5	8847.5	9416.5	10146.3	9761.3
52.5°	10820.3	10716.5	10802.1	11227.3	11740.6	11636.8	10351.0	10036.1	10611.6	11522.8	10842.4
55°	10812.6	10654.3	10933.0	11683.5	12796.9	12916.1	11700.3	11337.4	11875.3	12999.1	11988.0
57.5°	10430.1	10437.9	10866.9	11849.3	13533.1	14118.9	13266.0	12721.7	13215.6	14494.9	13034.1
60°	9904.0	9975.2	10593.4	11822.2	14122.9	15105.3	15186.9	14213.5	14528.5	15854.5	13899.9
62.5°	9054.9	9130.0	9982.9	11539.6	14033.4	16055.4	16923.8	15906.3	15901.1	16678.9	14154.0
65°	7716.0	7693.9	8589.6	10483.2	13282.9	16757.9	18649.0	17369.7	16935.5	16691.9	13643.3
67.5°	5690.1	5591.6	6360.2	7984.2	11040.6	15971.2	19663.9	18131.8	17288.1	15593.9	12082.7
70°	2952.6	2854.1	3476.3	4662.2	7261.1	12465.1	18540.1	17737.8	16509.1	13071.7	9465.7
72.5°	1262.5	1245.5	1498.4	2045.4	3512.5	7189.7	14537.6	15352.9	14165.6	9739.3	6507.9
75°	849.0	843.8	938.4	1114.7	1580.0	2917.7	9097.7	10898.1	10364.0	6038.8	3660.3
77.5°	666.3	659.7	715.4	801.0	1024.0	1150.9	4037.4	5850.9	5415.3	2628.6	1602.1
80°	521.0	515.8	550.8	597.5	736.2	725.8	1328.6	2327.9	1801.6	1007.2	779.0
82.5°	411.0	411.0	439.4	440.7	522.4	495.2	693.5	1025.3	899.5	587.2	477.0
85°	375.9	375.9	405.7	329.2	340.9	312.4	430.4	607.9	570.4	241.1	207.4
87.5°	189.2	184.1	340.9	291.6	185.3	165.8	210.0	294.2	316.3	133.6	103.7
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: P193175

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3309.0	3309.0	3309.0	3309.0	3309.0	3309.0	3309.0	3309.0	3309.0	3309.0
2.5°	3293.5	3292.2	3294.8	3296.2	3306.5	3320.7	3327.2	3336.3	3341.4	3338.9
5°	3254.7	3257.2	3267.6	3275.4	3293.5	3316.9	3329.7	3340.2	3349.3	3345.4
7.5°	3222.3	3228.7	3244.2	3250.8	3261.1	3267.6	3266.3	3270.2	3278.0	3268.9
10°	3204.0	3211.9	3223.4	3214.4	3189.9	3154.9	3122.4	3105.5	3110.7	3104.3
12.5°	3185.9	3196.3	3187.2	3144.5	3075.7	3030.5	3005.7	3008.4	3020.0	3022.6
15°	3175.6	3179.5	3140.5	3060.3	2990.2	2983.8	2996.7	2994.1	2995.5	2995.5
17.5°	3175.6	3165.2	3092.6	3012.3	2982.4	2970.8	2930.6	2880.1	2858.0	2850.2
20°	3192.4	3165.2	3077.1	3024.0	2959.1	2859.4	2753.0	2659.7	2618.2	2606.6
22.5°	3243.0	3196.3	3121.1	3029.1	2845.0	2677.8	2509.3	2397.9	2322.8	2309.7
25°	3345.4	3293.5	3208.0	2960.4	2663.6	2425.1	2233.3	2108.8	2033.7	2023.3
27.5°	3524.2	3490.5	3254.7	2808.7	2422.5	2167.1	1989.6	1893.7	1838.0	1834.0
30°	3793.8	3777.0	3231.4	2584.5	2125.6	1917.0	1831.5	1775.7	1734.3	1733.0
32.5°	4224.2	4088.1	3154.9	2311.1	1854.7	1739.4	1704.5	1670.7	1638.4	1638.4
35°	4777.6	4339.6	3009.6	2018.1	1690.1	1641.0	1596.9	1543.8	1500.9	1498.4
37.5°	5428.3	4495.0	2749.2	1782.2	1612.4	1574.9	1510.0	1431.0	1355.8	1342.8
40°	6085.4	4541.7	2382.3	1637.0	1563.2	1508.8	1429.6	1336.4	1263.7	1259.9
42.5°	6688.1	4452.4	1993.4	1537.3	1513.9	1441.3	1358.3	1275.4	1218.4	1217.0
45°	7193.6	4220.2	1666.9	1442.7	1462.1	1380.4	1306.5	1239.1	1195.1	1186.0
47.5°	7669.4	3892.4	1437.5	1342.8	1410.2	1346.7	1284.5	1221.0	1178.3	1171.7
50°	8221.4	3538.5	1276.7	1245.5	1364.8	1335.0	1302.6	1236.5	1165.2	1157.5
52.5°	8890.3	3232.6	1150.9	1160.0	1329.9	1350.6	1349.3	1280.6	1156.2	1145.8
55°	9636.8	2892.9	1056.3	1090.1	1315.6	1379.1	1361.0	1322.0	1163.9	1148.5
57.5°	10371.8	2496.3	990.2	1036.9	1294.8	1376.5	1305.2	1249.5	1182.0	1160.0
60°	10922.6	1963.7	939.7	990.2	1249.5	1333.7	1244.4	1170.3	1178.3	1161.3
62.5°	10958.9	1517.8	878.8	950.1	1180.8	1291.0	1204.1	1135.4	1195.1	1179.5
65°	10314.7	1147.1	820.4	902.2	1106.9	1263.7	1165.2	1116.0	1230.0	1213.3
67.5°	8684.3	922.8	771.3	852.9	1033.0	1206.8	1130.3	1097.8	1261.2	1231.4
70°	6269.6	786.7	723.3	793.2	967.0	1141.9	1099.1	1065.4	1176.9	1130.3
72.5°	3859.9	681.8	668.7	714.2	916.3	1074.4	1052.5	1004.5	1060.3	1022.6
75°	1927.4	591.1	607.9	636.4	845.1	998.1	974.7	926.7	934.5	926.7
77.5°	922.8	505.6	536.6	558.7	753.1	911.2	886.5	837.4	828.1	829.5
80°	584.5	422.5	452.4	467.9	672.7	810.0	785.5	736.2	839.8	779.0
82.5°	365.5	343.5	351.3	379.7	585.8	705.2	672.7	628.7	756.9	598.8
85°	202.2	239.9	250.2	274.8	451.0	589.8	557.3	501.6	449.7	442.0
87.5°	120.5	142.6	146.5	164.7	303.3	426.4	377.2	357.8	296.8	295.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)