

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: P318898

Luminaire Tested: **GAN-SA4D-830-U-T4FT**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318898
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-SA4D-830-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 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: 25022 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

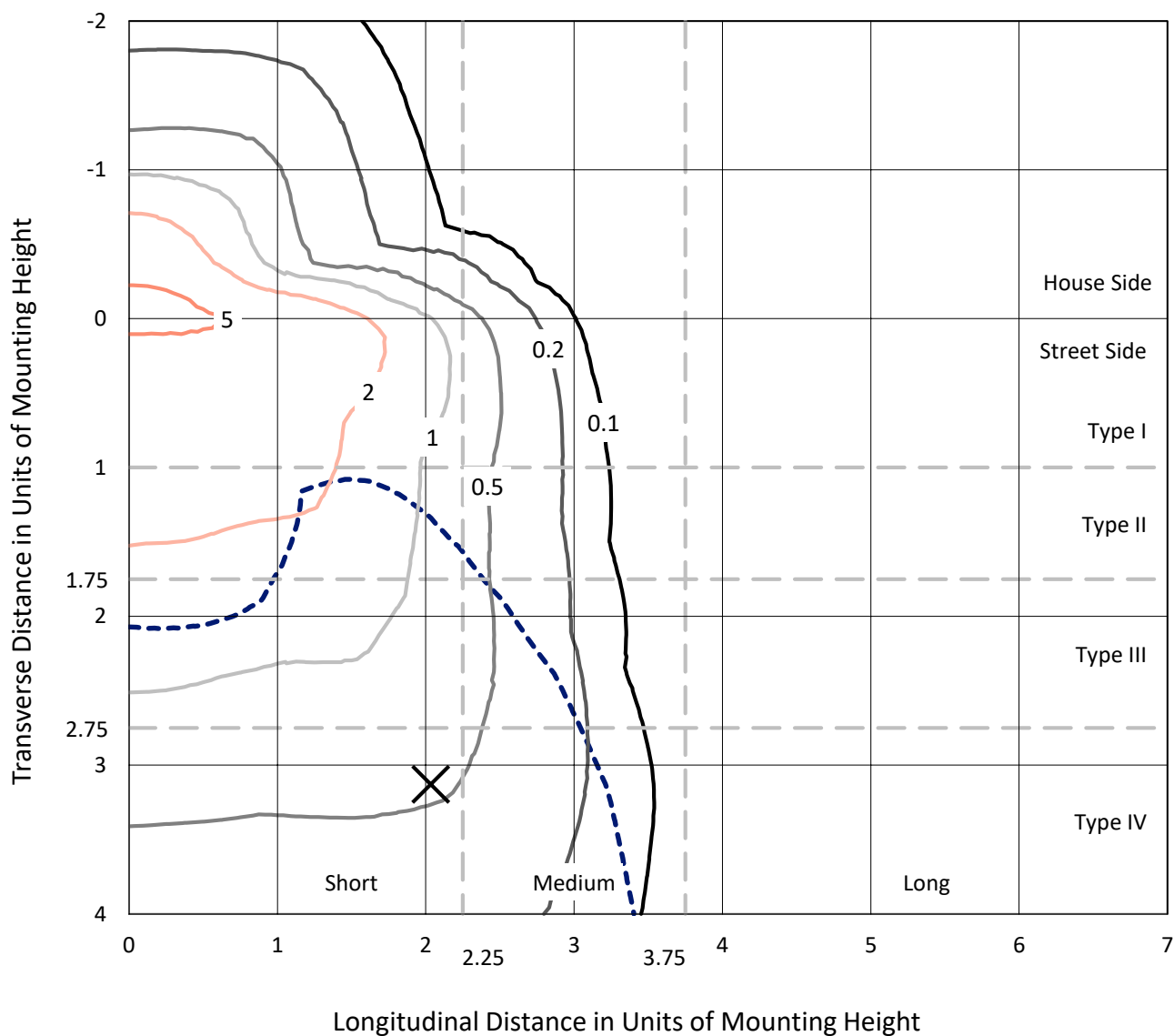
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P318898
 CATALOG NUMBER: GAN-SA4D-830-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

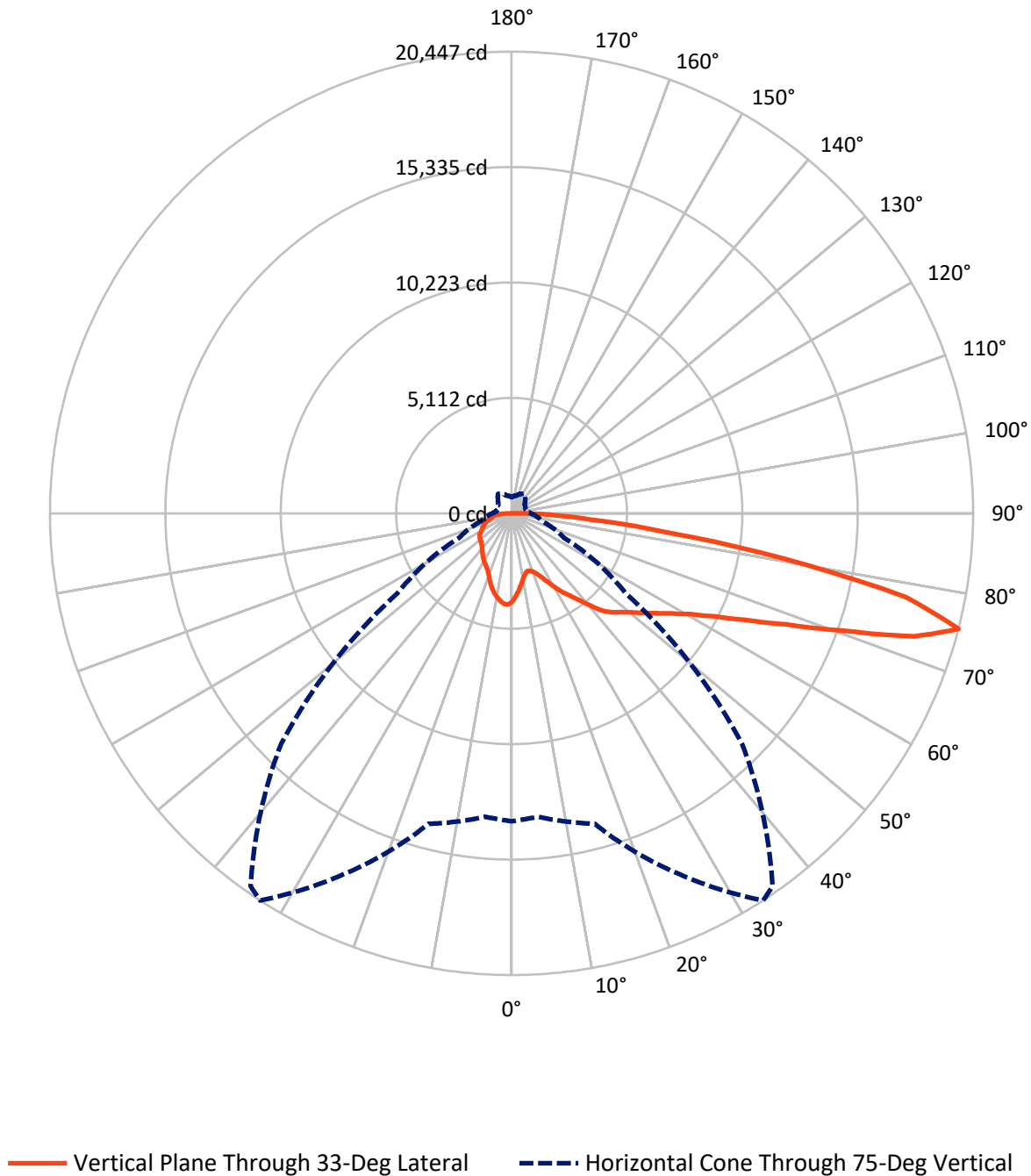
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P318898
CATALOG NUMBER: GAN-SA4D-830-U-T4FT

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5372.9	0.0	5372.9
	% Fixture	21.5	0.0	21.5
Street Side	Lumens	19649.1	0.0	19649.1
	% Fixture	78.5	0.0	78.5
Total	Lumens	25022.0	0.0	25022.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.7	1.4
10°-20°	958.0	3.8
20°-30°	1564.5	6.3
30°-40°	2330.0	9.3
40°-50°	3341.8	13.4
50°-60°	4587.8	18.3
60°-70°	5743.7	23.0
70°-80°	5196.0	20.8
80°-90°	946.5	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°	25022.0	100.0
0°-180°	25022.0	100.0

Coefficient of Utilization



REPORT NUMBER: P318898

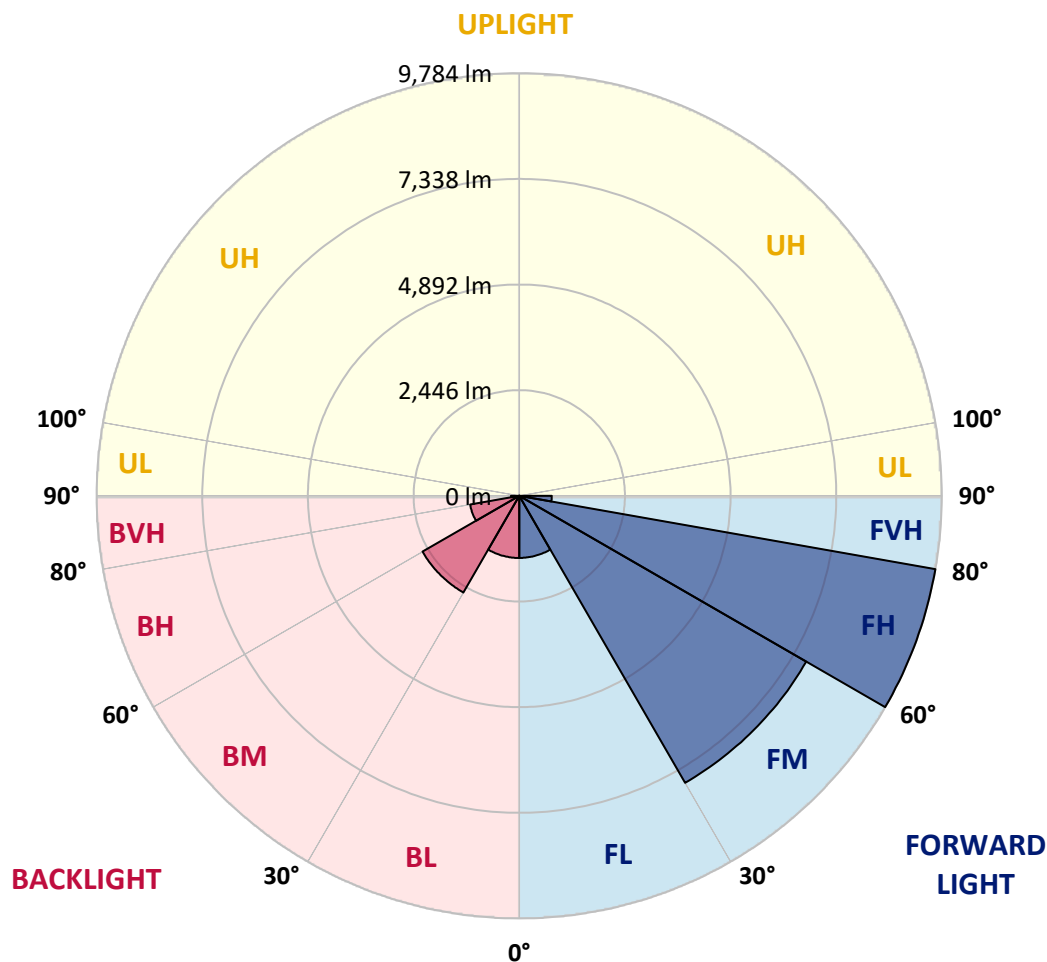
CATALOG NUMBER: GAN-SA4D-830-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1437.1	5.7			
FM	(30°-60°)	7673.7	30.7			
FH	(60°-80°)	9784.5	39.1			G4/12000
FVH	(80°-90°)	753.8	3.0			G5
BL	(0°-30°)	1439.1	5.8	B3/2500		
BM	(30°-60°)	2585.8	10.3	B3/5000		
BH	(60°-80°)	1155.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	192.7	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-G5

Type IV Short





REPORT NUMBER: P318898

CATALOG NUMBER: GAN-SA4D-830-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	33°	35°	45°	55°	65°	75°	85°
0°	3911.1	3911.1	3911.1	3911.1	3911.1	3911.1	3911.1	3911.1	3911.1	3911.1	3911.1
2.5°	3631.9	3618.1	3644.0	3647.5	3669.9	3678.6	3709.7	3758.1	3797.9	3843.7	3885.1
5°	3302.6	3293.1	3329.4	3355.3	3404.6	3425.3	3498.8	3601.6	3693.3	3797.0	3891.2
7.5°	2989.7	2984.5	3025.1	3083.9	3141.0	3169.5	3296.5	3446.1	3599.1	3766.7	3911.1
10°	2726.1	2724.4	2763.3	2821.2	2905.0	2937.0	3101.2	3298.3	3512.6	3743.4	3944.8
12.5°	2578.3	2584.3	2602.5	2650.9	2728.7	2760.7	2943.0	3174.7	3440.0	3735.6	3994.1
15°	2614.6	2624.1	2593.0	2591.3	2646.6	2671.6	2842.8	3086.5	3388.2	3748.6	4065.8
17.5°	2769.3	2771.0	2688.9	2637.1	2670.8	2683.7	2811.7	3036.4	3357.9	3778.0	4155.7
20°	2987.1	2982.8	2837.6	2751.2	2769.3	2772.8	2855.7	3037.2	3355.3	3829.0	4272.4
22.5°	3275.8	3243.8	3048.5	2930.9	2926.6	2921.4	2969.0	3101.2	3393.3	3911.9	4411.5
25°	3652.6	3622.4	3353.6	3192.8	3158.3	3145.3	3152.2	3237.8	3468.5	4001.0	4567.1
27.5°	4071.8	4019.1	3759.8	3532.5	3460.8	3442.6	3401.1	3430.5	3550.7	4086.5	4752.1
30°	4422.8	4394.2	4167.8	3898.1	3813.4	3787.5	3678.6	3646.6	3669.1	4203.2	4985.4
32.5°	4619.0	4599.9	4462.5	4244.7	4166.1	4129.8	3975.9	3911.9	3859.2	4387.3	5301.8
35°	4856.7	4844.6	4761.6	4603.4	4486.7	4448.7	4329.4	4262.9	4127.2	4640.6	5710.6
37.5°	5159.2	5146.2	5147.9	5020.0	4880.9	4845.4	4766.8	4696.8	4474.6	4973.3	6154.9
40°	5501.4	5476.4	5466.9	5460.8	5372.7	5352.8	5311.3	5216.2	4910.2	5370.9	6593.1
42.5°	6016.6	5927.6	5737.4	5809.1	5896.4	5886.1	5919.8	5783.2	5394.3	5841.1	7020.9
45°	6513.6	6367.5	6039.1	6054.6	6245.6	6303.5	6555.9	6459.1	5918.9	6356.3	7463.5
47.5°	6740.0	6629.4	6350.2	6351.1	6540.4	6660.5	7213.7	7144.5	6470.4	6941.4	8003.7
50°	6993.3	6882.6	6632.0	6726.2	6891.3	7019.2	7849.0	7813.5	6995.0	7581.9	8651.0
52.5°	7269.9	7082.3	6923.3	7091.8	7323.4	7472.1	8485.1	8388.3	7476.4	8226.7	9395.2
55°	7273.3	7222.3	7343.3	7466.9	7813.5	7995.9	9151.5	8895.7	7868.8	8860.2	10001.1
57.5°	7687.3	7604.3	7861.1	7918.1	8371.0	8576.7	9814.4	9337.3	8268.2	9346.0	10327.8
60°	8235.3	8164.4	8374.5	8524.9	9060.7	9335.6	10522.3	9791.1	8581.9	9712.4	10312.3
62.5°	9181.7	9101.4	9098.8	9309.7	10031.4	10351.2	11316.6	10236.2	8706.4	9785.0	9872.3
65°	10567.3	10439.3	10198.2	10298.5	11371.9	11690.9	12204.3	10558.6	8542.1	9396.1	8739.2
67.5°	11915.6	11911.3	11614.8	11820.5	13142.1	13397.9	13215.6	10590.6	8029.6	8041.7	6728.8
70°	13259.6	13276.9	13226.8	13942.5	15533.7	15799.9	14292.5	10161.0	6877.4	5807.4	4031.2
72.5°	14324.5	14320.2	14572.6	16417.9	18637.5	18577.8	15200.1	8859.3	4937.9	3134.9	1926.6
75°	13634.8	13484.4	14236.3	17643.5	20446.5	20155.2	14428.2	6179.9	2562.7	1427.0	1037.2
77.5°	8893.1	9035.7	10139.4	14575.1	17884.7	17530.3	10585.4	2883.4	1207.5	936.1	752.0
80°	3220.5	3370.9	4747.7	8256.0	12321.8	12263.9	5212.8	1185.0	816.8	707.0	548.0
82.5°	1108.1	1163.4	1873.0	3666.5	6957.0	7216.3	1961.2	673.3	593.8	501.3	375.1
85°	434.8	497.9	856.5	1764.1	3509.2	3535.1	794.3	402.8	413.1	328.4	205.7
87.5°	165.1	200.5	409.7	819.4	1602.5	1471.9	284.4	191.9	235.1	195.3	97.7
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: P318898

CATALOG NUMBER: GAN-SA4D-830-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3911.1	3911.1	3911.1	3911.1	3911.1	3911.1	3911.1	3911.1	3911.1	3911.1	3911.1
2.5°	3917.1	3935.3	3973.3	3999.2	4026.9	4034.7	4038.1	4045.0	4052.0	4049.4	4050.2
5°	3941.3	3976.8	4038.1	4064.1	4076.2	4062.3	4035.5	4013.9	3998.4	3989.7	3987.1
7.5°	3981.1	4031.2	4096.9	4092.6	4064.9	4003.6	3934.4	3882.6	3839.3	3823.8	3815.1
10°	4033.8	4092.6	4138.4	4089.1	4008.7	3902.4	3798.7	3718.3	3653.5	3628.4	3624.1
12.5°	4101.2	4160.9	4169.5	4064.9	3931.8	3786.6	3645.7	3539.4	3442.6	3411.5	3404.6
15°	4188.5	4244.7	4191.1	4022.6	3836.7	3641.4	3459.0	3314.7	3212.7	3174.7	3160.8
17.5°	4280.1	4333.7	4195.4	3952.6	3712.3	3469.4	3240.4	3092.6	2975.9	2931.8	2926.6
20°	4389.9	4414.1	4177.3	3852.3	3541.1	3246.4	3005.3	2866.1	2803.9	2772.8	2769.3
22.5°	4525.6	4499.7	4135.8	3716.6	3324.2	2988.8	2792.6	2727.8	2712.3	2705.3	2707.9
25°	4669.1	4589.6	4074.4	3539.4	3050.2	2731.3	2637.1	2655.2	2676.0	2673.4	2673.4
27.5°	4827.3	4681.2	3980.2	3304.3	2746.8	2520.4	2531.6	2598.2	2629.3	2628.4	2627.6
30°	5030.4	4784.9	3860.1	3021.7	2463.3	2371.7	2440.0	2521.2	2563.6	2561.9	2562.7
32.5°	5280.2	4899.0	3696.7	2706.2	2258.5	2261.9	2340.6	2421.0	2470.2	2465.9	2466.8
35°	5572.3	5026.9	3475.5	2395.0	2122.8	2174.6	2236.9	2293.1	2339.7	2333.7	2327.6
37.5°	5890.4	5152.3	3181.6	2116.7	2012.2	2093.4	2145.3	2154.8	2176.4	2160.8	2149.6
40°	6192.9	5248.2	2803.0	1888.6	1900.7	2024.3	2058.0	2019.9	1981.0	1975.9	1960.3
42.5°	6456.5	5280.2	2420.1	1706.2	1783.1	1951.6	1972.4	1892.9	1822.9	1790.0	1776.2
45°	6734.8	5291.4	2063.1	1553.2	1669.9	1886.8	1909.3	1803.0	1704.5	1633.6	1610.2
47.5°	7098.7	5372.7	1785.7	1440.0	1583.4	1843.6	1875.6	1731.2	1603.3	1502.2	1480.6
50°	7575.0	5533.4	1560.1	1353.5	1527.3	1815.1	1851.4	1661.2	1520.4	1398.5	1376.9
52.5°	8103.9	5681.2	1377.7	1283.5	1472.8	1765.0	1820.3	1611.1	1442.6	1302.5	1279.2
55°	8473.9	5568.0	1230.8	1210.9	1401.9	1693.2	1777.1	1568.8	1331.1	1209.2	1188.4
57.5°	8544.7	5180.8	1119.3	1135.7	1316.4	1603.3	1710.5	1474.5	1270.6	1168.6	1147.0
60°	8351.1	4641.4	1036.3	1066.6	1224.8	1490.1	1586.0	1408.0	1212.7	1125.4	1107.2
62.5°	7864.5	4089.1	975.0	1004.3	1139.2	1375.1	1508.3	1338.0	1153.9	1076.1	1057.9
65°	6881.8	3433.1	916.2	949.0	1059.7	1275.7	1438.2	1273.2	1096.0	1036.3	1019.0
67.5°	5194.6	2571.4	860.9	890.3	988.8	1189.3	1362.2	1209.2	1039.8	1001.8	981.0
70°	3058.9	1610.2	797.8	828.9	914.5	1099.4	1280.9	1139.2	969.8	952.5	925.7
72.5°	1423.5	968.9	726.0	756.3	821.1	979.3	1176.3	1047.6	886.8	848.8	812.5
75°	849.6	708.7	641.3	668.1	713.9	851.4	1045.0	954.2	808.1	758.0	720.0
77.5°	635.3	541.9	548.0	576.5	613.7	745.0	925.7	880.7	747.6	708.7	682.8
80°	457.2	411.4	446.9	478.0	516.9	677.6	886.8	814.2	675.9	624.0	599.8
82.5°	305.1	295.6	336.2	368.2	406.2	592.9	833.2	713.1	577.4	511.7	458.1
85°	168.5	178.1	226.5	240.3	273.1	417.5	682.8	573.0	434.8	350.1	334.5
87.5°	70.0	82.1	121.9	117.5	145.2	248.9	449.4	345.7	276.6	206.6	160.8
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)