

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: P317784

Luminaire Tested: **GAN-SA0D-740-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317784
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0D-740-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 78523 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

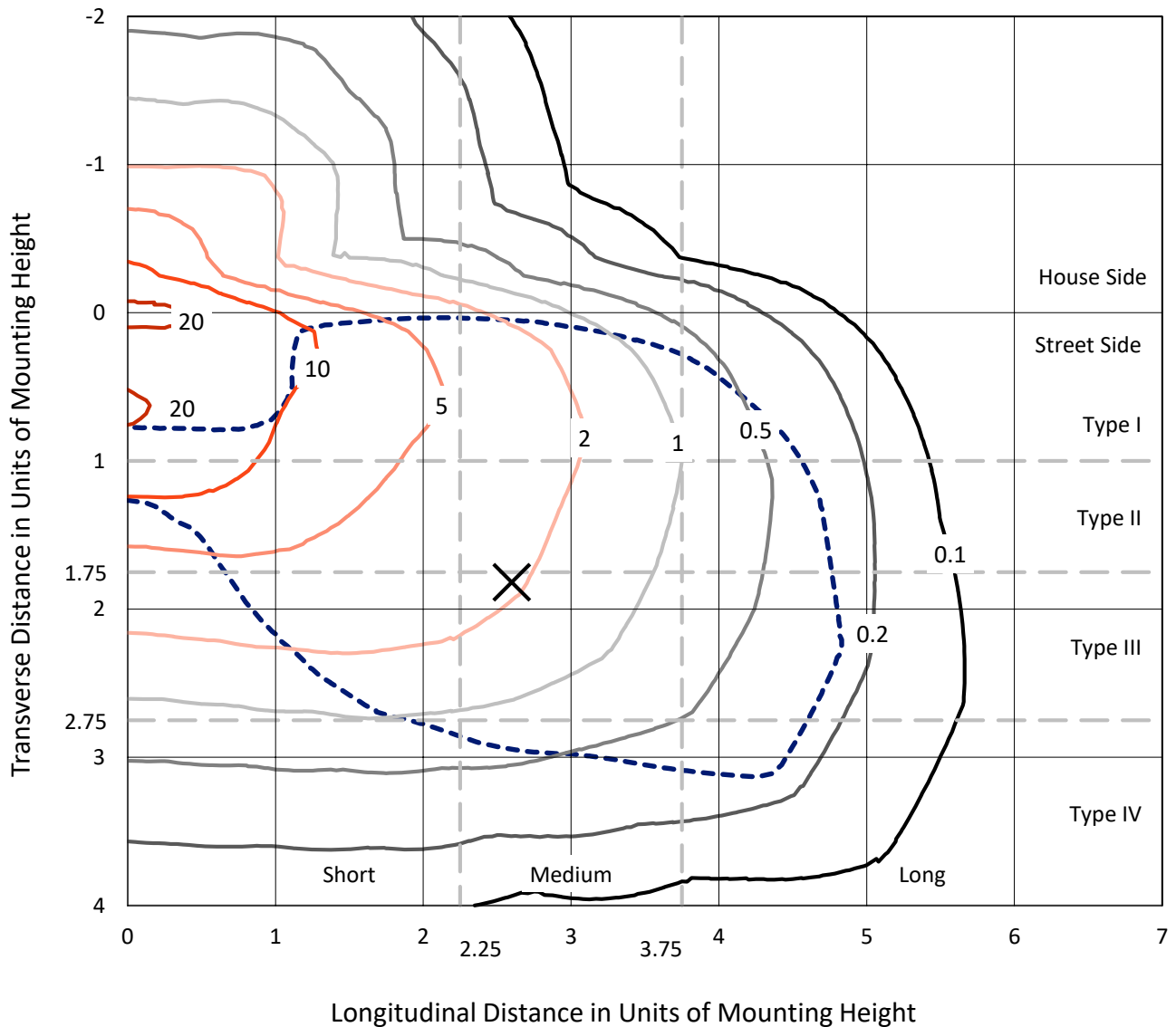
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

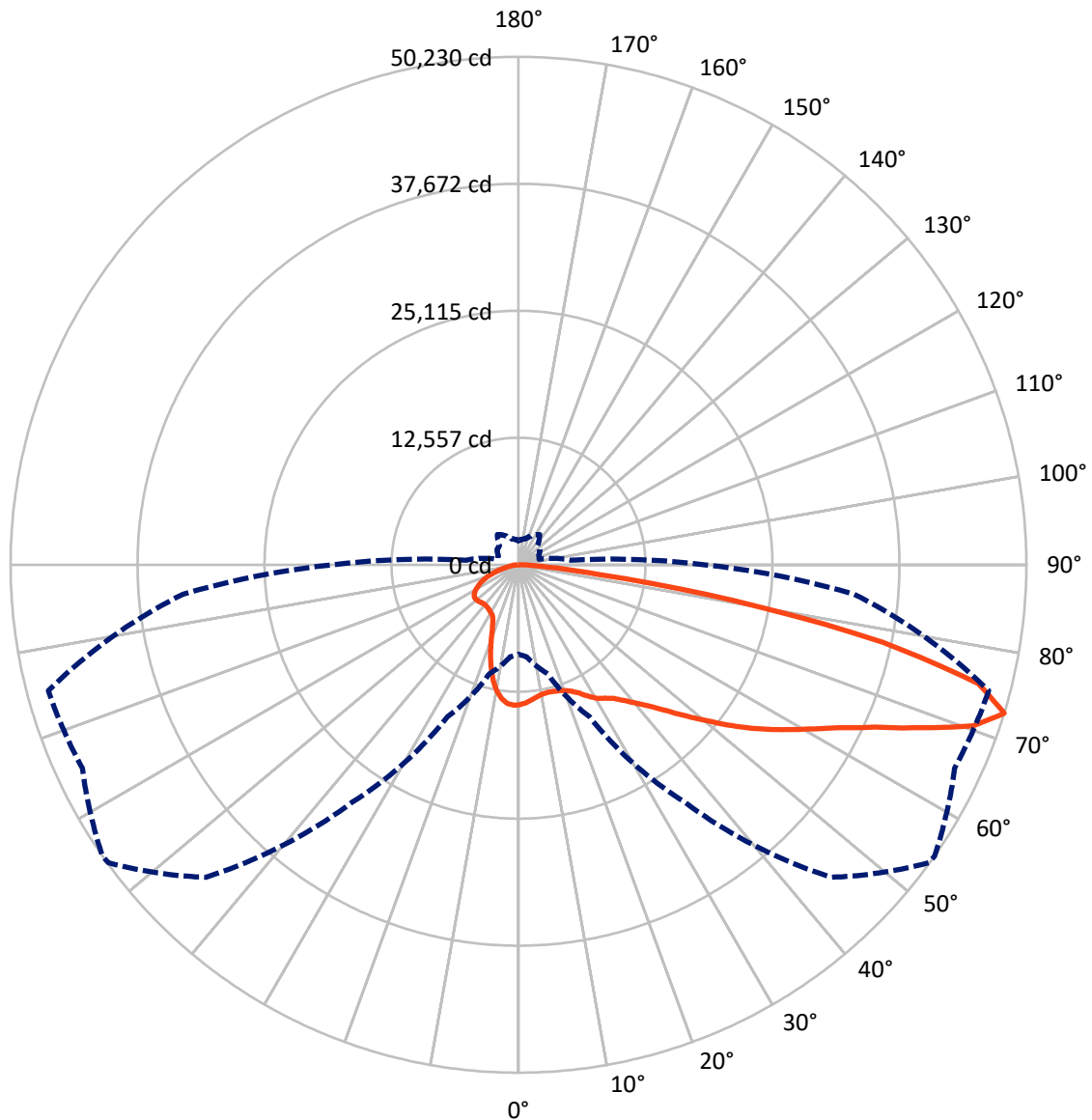
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14594.9	0.0	14594.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	63928.1	0.0	63928.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	78523.0	0.0	78523.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1253.2	1.6
10°-20°	3336.6	4.2
20°-30°	5501.2	7.0
30°-40°	8137.7	10.4
40°-50°	11358.5	14.5
50°-60°	14789.1	18.8
60°-70°	18175.3	23.1
70°-80°	14247.3	18.1
80°-90°	1724.1	2.2
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°	78523.0	100.0
0°-180°	78523.0	100.0

Coefficient of Utilization

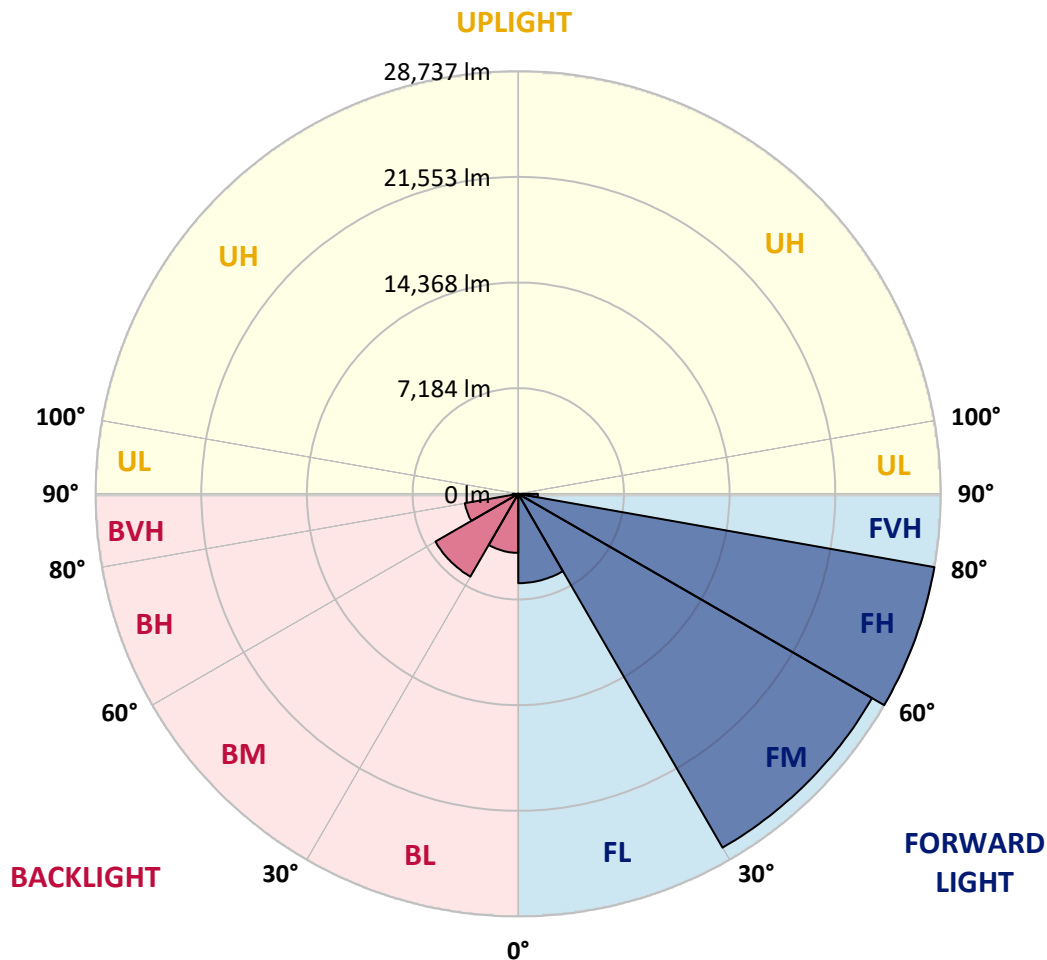


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6075.4	7.7			
FM (30°-60°)	27783.0	35.4			
FH (60°-80°)	28736.8	36.6			G5
FVH (80°-90°)	1333.0	1.7			G5
BL (0°-30°)	4015.7	5.1	B4/5000		
BM (30°-60°)	6502.2	8.3	B4/8500		
BH (60°-80°)	3685.9	4.7	B4/5000		G4/5000
BVH (80°-90°)	391.1	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13849.8	13849.8	13849.8	13849.8	13849.8	13849.8	13849.8	13849.8	13849.8	13849.8	13849.8
2.5°	13398.9	13367.1	13406.9	13462.5	13523.5	13605.8	13653.5	13674.7	13756.9	13788.8	13857.7
5°	12778.3	12762.4	12828.7	12924.2	13059.4	13250.4	13404.2	13433.4	13650.9	13804.7	13945.2
7.5°	12327.4	12327.4	12404.3	12518.4	12669.5	12926.8	13144.3	13184.1	13552.7	13884.2	14144.2
10°	11969.4	11982.6	12072.8	12208.1	12385.8	12658.9	12948.0	12993.1	13526.2	14069.9	14483.6
12.5°	11730.7	11762.5	11844.7	11966.7	12186.8	12518.4	12884.4	12945.4	13581.9	14335.1	14892.1
15°	11881.8	11934.9	11942.8	11993.2	12115.2	12475.9	12921.5	12985.2	13701.2	14605.6	15356.2
17.5°	12544.9	12563.5	12481.2	12375.1	12316.8	12547.5	13032.9	13099.2	13844.5	14873.5	15801.8
20°	13552.7	13542.1	13364.4	13078.0	12780.9	12818.1	13215.9	13284.8	14038.1	15109.6	16247.4
22.5°	14825.8	14788.6	14515.5	13987.7	13481.1	13268.9	13536.8	13595.2	14329.8	15446.4	16724.7
25°	16369.4	16287.1	15926.4	15218.3	14473.0	13926.7	14019.5	14075.2	14754.2	15823.0	17162.4
27.5°	17997.8	17915.6	17456.8	16600.1	15608.2	14756.8	14685.2	14732.9	15236.9	16101.5	17485.9
30°	19700.5	19613.0	19193.9	18233.8	16812.3	15616.1	15305.8	15324.4	15576.3	16252.7	17751.1
32.5°	21411.2	21329.0	20859.5	19745.6	18119.8	16539.1	15754.0	15730.2	15780.6	16409.1	18050.8
35°	23145.7	23177.5	22628.5	21395.3	19567.9	17565.5	16284.5	16234.1	16122.7	16730.1	18475.2
37.5°	25002.3	24981.0	24270.2	22981.3	21082.3	18679.4	17045.7	17037.7	16653.1	17337.4	19140.9
40°	26243.5	26256.7	25824.4	24604.4	22612.6	19912.7	18021.7	18003.1	17499.2	18247.1	20013.5
42.5°	26728.8	26816.4	26927.7	26153.3	24214.5	21342.2	19186.0	19159.5	18679.4	19552.0	21039.9
45°	26763.3	26938.4	27627.9	27529.8	25837.7	22978.6	20673.9	20599.6	20254.8	21286.5	22265.2
47.5°	26466.3	26646.6	27792.4	28349.3	27288.4	24705.2	22413.7	22355.4	22058.3	23456.0	23591.3
50°	25816.5	25988.9	27452.9	28749.8	28481.9	26365.5	24418.8	24264.9	24105.8	25962.3	25108.3
52.5°	24599.1	24930.6	26999.4	28845.3	29195.4	27840.1	26527.3	26426.5	26514.0	28606.6	26628.0
55°	21716.2	22087.5	25829.7	28765.7	29723.2	29078.7	28635.8	28630.5	29084.0	31380.8	28259.1
57.5°	20101.0	20363.6	23448.1	28630.5	30349.1	30309.3	30723.0	30773.4	31656.6	34401.6	29967.2
60°	19188.6	19464.5	22241.3	28129.2	31319.8	31900.6	32852.8	32953.5	34271.7	37746.1	32022.6
62.5°	18358.5	18660.9	21493.4	27108.1	32462.9	34176.2	35404.2	35494.3	37040.6	41183.3	34009.1
65°	16939.6	17281.7	20398.0	26437.1	33502.5	37144.0	38647.8	38708.8	40220.6	44785.0	35528.8
67.5°	14934.5	15247.5	18332.0	24954.5	34271.7	40748.3	42960.3	42994.7	43374.0	47328.4	36305.9
70°	12592.6	12712.0	15388.0	21893.9	33362.0	44119.3	47686.5	47694.4	46249.0	48956.9	36178.6
72.5°	8847.7	9128.9	11171.0	16573.6	28670.2	43708.2	50139.8	50229.9	47585.7	48134.7	33287.7
75°	5426.4	5723.4	7007.1	10043.9	18188.8	34375.1	46325.9	46951.8	45079.4	42917.8	27193.0
77.5°	3628.2	3739.6	4572.4	5856.0	8240.4	19777.4	35616.3	36793.9	37449.0	31298.6	17390.4
80°	2023.6	2235.8	3031.5	3638.8	3665.3	7858.5	21355.5	21631.3	20835.7	12462.7	5365.4
82.5°	1071.5	1188.2	2023.6	2137.7	1999.8	2631.0	7959.2	7967.2	6657.0	3341.8	1594.0
85°	830.1	928.3	1387.1	1304.9	1021.1	1167.0	2625.7	2768.9	2265.0	1368.5	519.8
87.5°	413.7	514.5	941.5	827.5	400.5	334.2	938.9	1002.5	893.8	535.7	188.3
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°	13849.8	13849.8	13849.8	13849.8	13849.8	13849.8	13849.8	13849.8	13849.8	13849.8	13849.8
2.5°	13884.2	13908.1	13937.3	13905.5	13894.9	13852.4	13780.8	13764.9	13727.8	13730.4	13751.6
5°	14006.2	14046.0	14030.1	13908.1	13762.2	13558.0	13345.9	13165.5	13046.2	13038.2	13030.2
7.5°	14239.6	14266.2	14141.5	13794.1	13385.6	12913.5	12468.0	12078.1	11842.1	11783.7	11770.4
10°	14605.6	14600.3	14258.2	13558.0	12743.8	11900.4	11184.3	10643.3	10327.7	10234.8	10211.0
12.5°	15014.1	14953.1	14298.0	13128.4	11836.8	10667.1	9760.1	9158.0	8829.2	8723.1	8696.6
15°	15435.8	15284.6	14199.9	12486.5	10722.8	9338.4	8386.2	7829.3	7651.6	7593.2	7582.6
17.5°	15828.3	15536.6	13918.7	11616.6	9452.4	8014.9	7272.3	7049.5	7092.0	7168.9	7171.5
20°	16212.9	15706.3	13467.9	10518.6	8113.1	6924.9	6672.9	6837.4	7038.9	7195.4	7216.6
22.5°	16592.1	15825.7	12887.0	9250.9	6914.3	6312.2	6489.9	6789.6	7020.4	7190.1	7219.3
25°	16910.4	15854.8	12086.1	7898.2	6081.5	6081.5	6402.4	6686.2	6914.3	7081.4	7110.5
27.5°	17027.1	15658.6	10956.2	6646.4	5662.4	5975.4	6280.4	6516.4	6710.1	6887.8	6919.6
30°	17072.2	15295.2	9651.3	5641.2	5490.0	5861.4	6116.0	6317.5	6500.5	6667.6	6696.8
32.5°	17080.1	14857.6	8266.9	5071.0	5370.7	5742.0	5911.7	6089.4	6285.7	6352.0	6362.6
35°	17130.5	14340.4	6808.2	4779.3	5259.3	5630.6	5765.9	5893.2	5574.9	5598.8	5620.0
37.5°	17276.4	13828.6	5588.2	4614.8	5187.7	5572.3	5734.0	5272.6	5023.3	4964.9	4957.0
40°	17549.6	13282.2	4683.8	4482.2	5161.2	5601.4	5529.8	4922.5	4492.8	4171.9	4124.2
42.5°	17928.8	12693.4	4105.6	4394.7	5179.7	5742.0	5246.0	4585.6	3872.2	3665.3	3638.8
45°	18355.8	12075.4	3792.6	4333.7	5243.4	5850.7	5187.7	4137.4	3583.1	3426.6	3413.4
47.5°	18769.6	11319.6	3630.9	4307.2	5330.9	5763.2	4941.0	3999.5	3445.2	3363.0	3370.9
50°	19244.3	10638.0	3532.7	4278.0	5407.8	5707.5	4662.6	3927.9	3392.2	3492.9	3599.0
52.5°	19644.8	9932.5	3445.2	4219.6	5437.0	5609.4	4591.0	3941.2	3392.2	3585.8	3686.6
55°	20119.6	9399.4	3344.4	4097.6	5381.3	5330.9	4540.6	4020.7	3431.9	3309.9	3320.5
57.5°	20732.2	9224.3	3233.0	3906.7	5195.7	4925.1	4516.7	4097.6	3408.1	3331.2	3357.7
60°	21580.9	9410.0	3187.9	3657.4	4906.6	4606.9	4519.3	4057.9	3241.0	3108.4	3111.0
62.5°	22389.8	9616.9	3185.3	3500.9	4551.2	4323.1	4458.3	3927.9	3156.1	3079.2	3108.4
65°	22655.1	9407.3	3058.0	3325.9	4150.7	3983.6	4346.9	3790.0	3092.5	2975.8	2970.5
67.5°	22299.7	8757.6	2800.7	3042.1	3691.9	3588.4	4201.1	3625.6	2991.7	2896.2	2880.3
70°	21244.1	7306.8	2482.5	2668.1	3169.4	3142.9	3970.3	3434.6	2856.4	2774.2	2705.2
72.5°	18403.6	5206.3	2092.6	2219.9	2580.6	2665.5	3652.1	3185.3	2665.5	2487.8	2381.7
75°	15114.9	3853.6	1718.6	1745.1	1960.0	2190.7	3214.5	2893.5	2440.0	2137.7	2055.5
77.5°	9256.2	2357.8	1368.5	1379.1	1405.7	1747.8	2646.9	2567.3	2153.6	1782.3	1723.9
80°	2997.0	1286.3	989.3	1039.7	960.1	1281.0	2047.5	2185.4	1848.6	1490.5	1426.9
82.5°	1140.4	750.6	668.4	702.8	665.7	859.3	1493.2	1750.4	1514.4	1225.3	997.2
85°	551.7	424.4	395.2	442.9	411.1	440.3	954.8	1289.0	1148.4	798.3	742.6
87.5°	196.3	188.3	151.2	204.2	175.0	156.5	291.7	649.8	758.5	549.0	490.7
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)