

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: P317824

Luminaire Tested: **GAN-SA0D-750-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317824
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-750-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 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: 78521 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

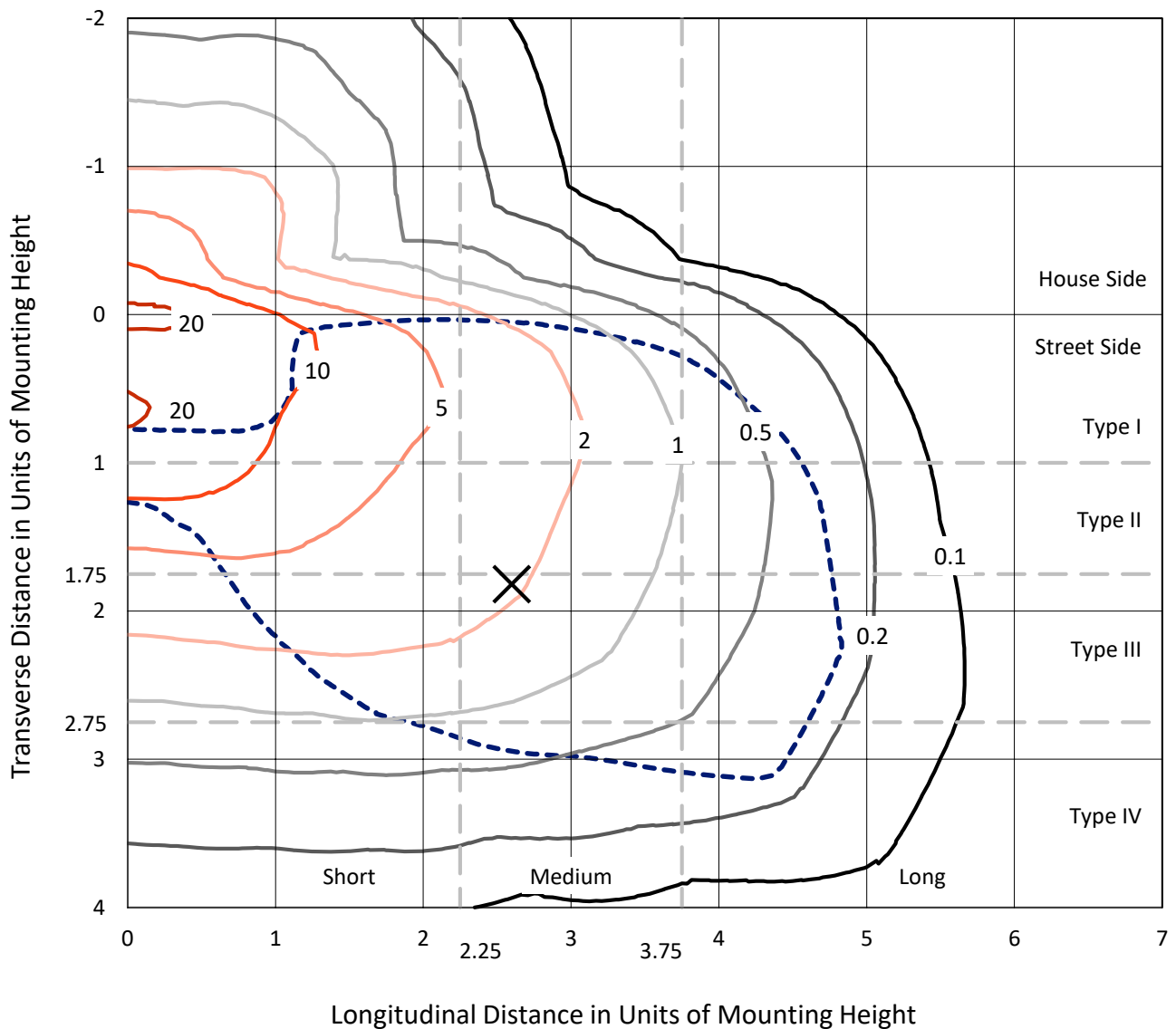
Input Watts (W): 640
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

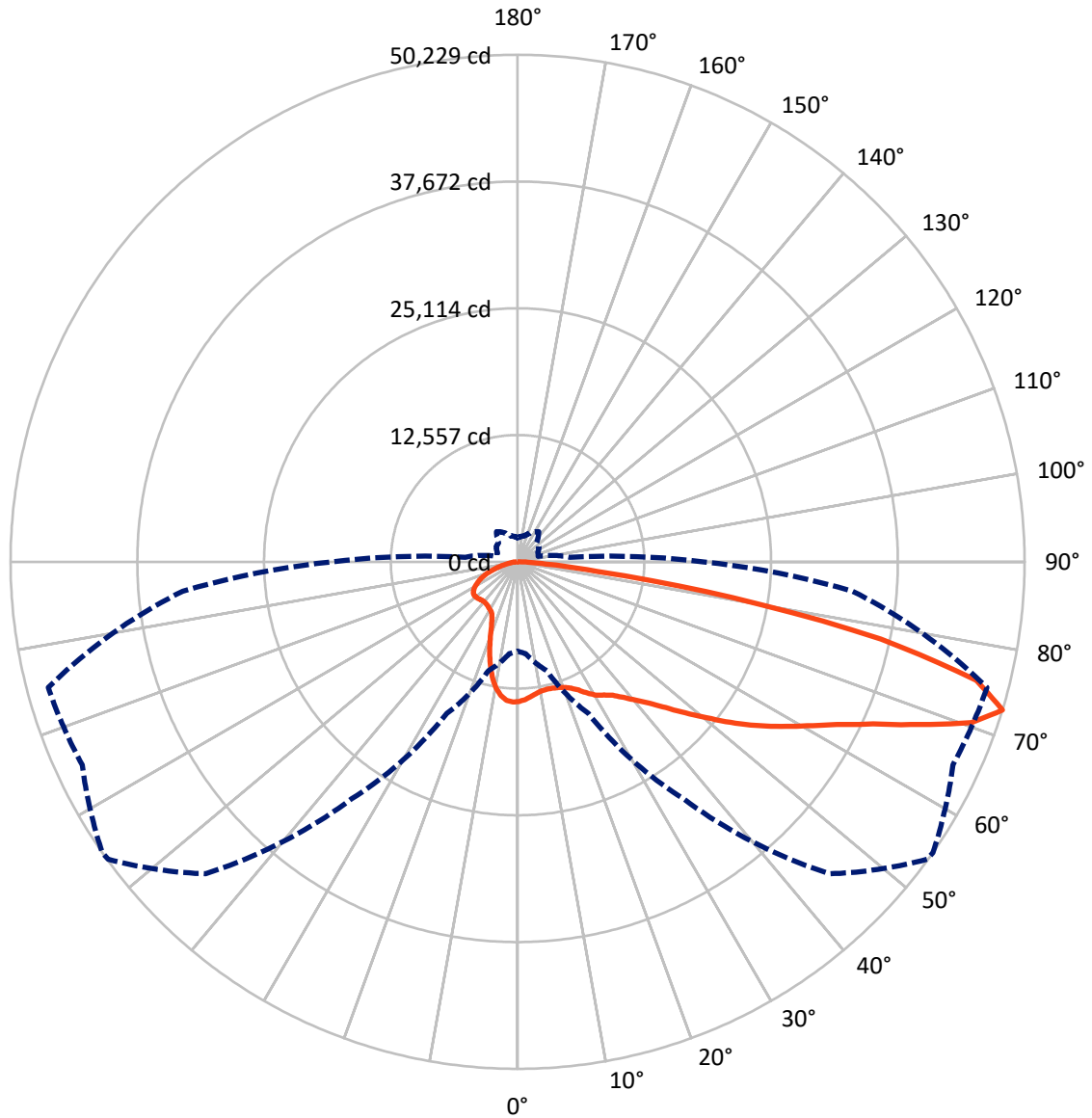
✕ Max cd
 - - - 1/2 Max cd



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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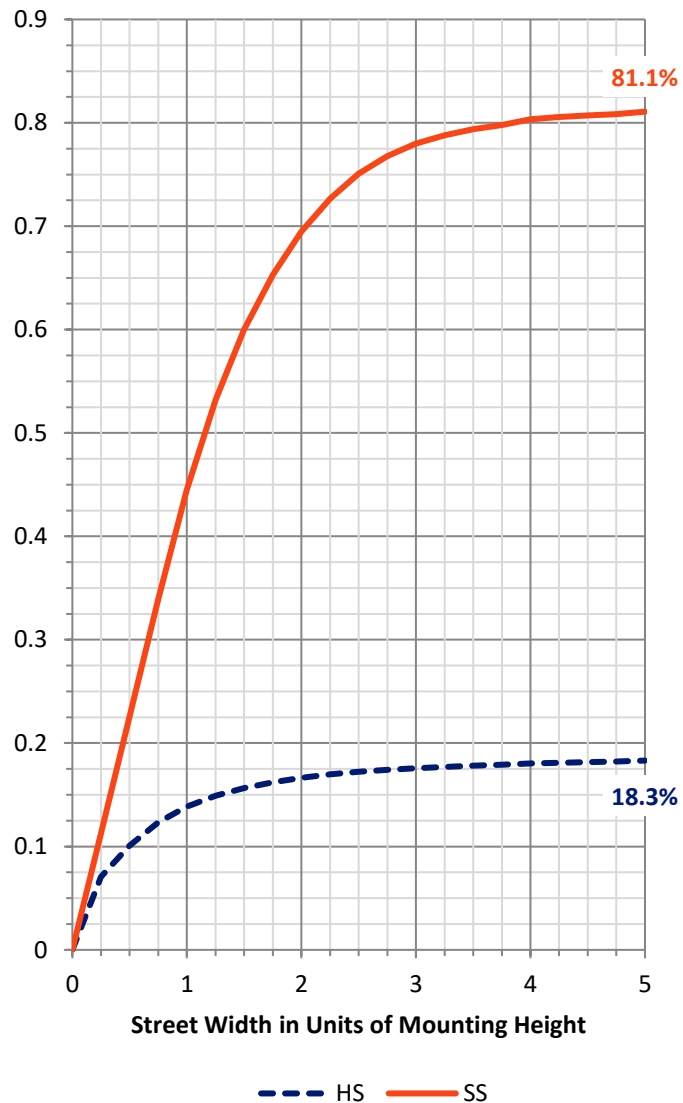
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14594.5	0.0	14594.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	63926.5	0.0	63926.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	78521.0	0.0	78521.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1253.2	1.6
10°-20°	3336.5	4.2
20°-30°	5501.1	7.0
30°-40°	8137.5	10.4
40°-50°	11358.2	14.5
50°-60°	14788.7	18.8
60°-70°	18174.9	23.1
70°-80°	14246.9	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°	78521.0	100.0
0°-180°	78521.0	100.0

Coefficient of Utilization



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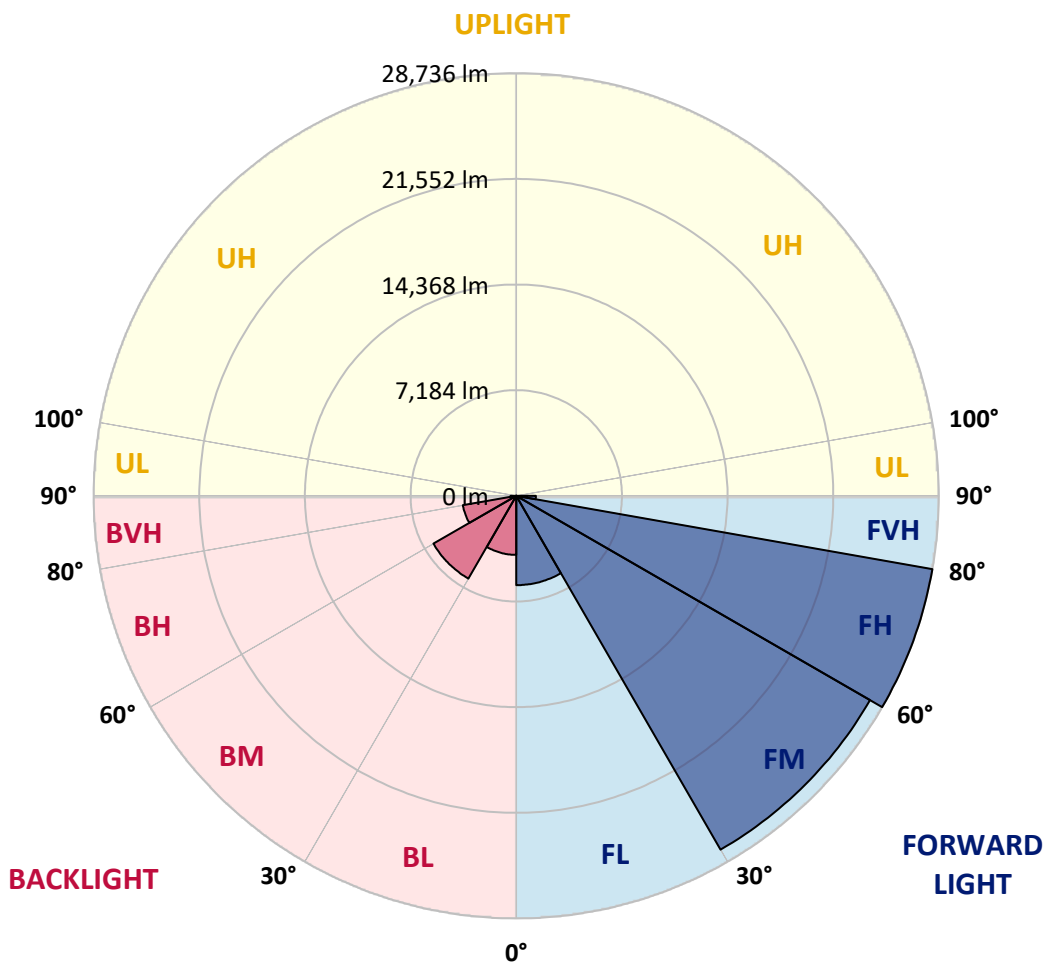
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6075.2	7.7			
FM (30°-60°)	27782.3	35.4			
FH (60°-80°)	28736.0	36.6			G5
FVH (80°-90°)	1333.0	1.7			G5
BL (0°-30°)	4015.5	5.1	B4/5000		
BM (30°-60°)	6502.1	8.3	B4/8500		
BH (60°-80°)	3685.8	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°	13849.4	13849.4	13849.4	13849.4	13849.4	13849.4	13849.4	13849.4	13849.4	13849.4	13849.4
2.5°	13398.6	13366.7	13406.5	13462.2	13523.2	13605.4	13653.2	13674.4	13756.6	13788.4	13857.4
5°	12778.0	12762.0	12828.3	12923.8	13059.1	13250.0	13403.9	13433.0	13650.5	13804.3	13944.9
7.5°	12327.1	12327.1	12404.0	12518.0	12669.2	12926.5	13143.9	13183.7	13552.4	13883.9	14143.8
10°	11969.1	11982.3	12072.5	12207.7	12385.4	12658.6	12947.7	12992.8	13525.9	14069.5	14483.3
12.5°	11730.4	11762.2	11844.4	11966.4	12186.5	12518.0	12884.0	12945.0	13581.5	14334.8	14891.7
15°	11881.5	11934.6	11942.5	11992.9	12114.9	12475.6	12921.2	12984.8	13700.9	14605.3	15355.8
17.5°	12544.6	12563.1	12480.9	12374.8	12316.5	12547.2	13032.6	13098.9	13844.1	14873.1	15801.4
20°	13552.4	13541.8	13364.1	13077.6	12780.6	12817.7	13215.6	13284.5	14037.7	15109.2	16246.9
22.5°	14825.4	14788.3	14515.1	13987.3	13480.8	13268.6	13536.5	13594.8	14329.5	15446.0	16724.3
25°	16368.9	16286.7	15926.0	15217.9	14472.7	13926.3	14019.2	14074.8	14753.8	15822.6	17161.9
27.5°	17997.3	17915.1	17456.3	16599.7	15607.8	14756.4	14684.8	14732.6	15236.5	16101.1	17485.5
30°	19700.0	19612.5	19193.5	18233.4	16811.8	15615.7	15305.4	15324.0	15576.0	16252.2	17750.7
32.5°	21410.6	21328.4	20859.0	19745.1	18119.3	16538.7	15753.6	15729.8	15780.2	16408.7	18050.4
35°	23145.1	23177.0	22628.0	21394.7	19567.4	17565.0	16284.1	16233.7	16122.3	16729.6	18474.7
37.5°	25001.6	24980.4	24269.6	22980.7	21081.8	18678.9	17045.2	17037.3	16652.7	17337.0	19140.4
40°	26242.8	26256.1	25823.8	24603.8	22612.0	19912.2	18021.2	18002.6	17498.7	18246.6	20013.0
42.5°	26728.2	26815.7	26927.1	26152.6	24213.9	21341.7	19185.5	19159.0	18678.9	19551.5	21039.3
45°	26762.6	26937.7	27627.2	27529.1	25837.0	22978.0	20673.3	20599.1	20254.3	21286.0	22264.6
47.5°	26465.6	26645.9	27791.7	28348.6	27287.7	24704.6	22413.1	22354.8	22057.8	23455.4	23590.7
50°	25815.8	25988.2	27452.2	28749.1	28481.2	26364.8	24418.1	24264.3	24105.2	25961.7	25107.7
52.5°	24598.5	24930.0	26998.7	28844.5	29194.6	27839.4	26526.6	26425.8	26513.3	28605.9	26627.4
55°	21715.6	22086.9	25829.1	28765.0	29722.4	29077.9	28635.0	28629.7	29083.2	31380.0	28258.4
57.5°	20100.5	20363.0	23447.5	28629.7	30348.3	30308.5	30722.3	30772.6	31655.8	34400.8	29966.4
60°	19188.1	19464.0	22240.7	28128.5	31319.0	31899.8	32851.9	32952.7	34270.8	37745.1	32021.8
62.5°	18358.0	18660.4	21492.8	27107.4	32462.1	34175.3	35403.3	35493.4	37039.6	41182.3	34008.2
65°	16939.1	17281.3	20397.5	26436.4	33501.7	37143.1	38646.8	38707.8	40219.5	44783.8	35527.9
67.5°	14934.1	15247.1	18331.5	24953.9	34270.8	40747.3	42959.2	42993.7	43372.9	47327.2	36305.0
70°	12592.3	12711.7	15387.6	21893.3	33361.1	44118.2	47685.3	47693.2	46247.8	48955.6	36177.7
72.5°	8847.5	9128.6	11170.8	16573.2	28669.5	43707.1	50138.5	50228.7	47584.5	48133.5	33286.9
75°	5426.3	5723.3	7006.9	10043.6	18188.3	34374.2	46324.7	46950.6	45078.2	42916.7	27192.3
77.5°	3628.1	3739.5	4572.3	5855.9	8240.2	19776.9	35615.4	36793.0	37448.1	31297.8	17390.0
80°	2023.6	2235.7	3031.4	3638.7	3665.2	7858.3	21354.9	21630.8	20835.1	12462.4	5365.3
82.5°	1071.5	1188.2	2023.6	2137.6	1999.7	2630.9	7959.0	7967.0	6656.8	3341.7	1593.9
85°	830.1	928.2	1387.1	1304.8	1021.1	1166.9	2625.6	2768.8	2264.9	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°	13849.4	13849.4	13849.4	13849.4	13849.4	13849.4	13849.4	13849.4	13849.4	13849.4	13849.4
2.5°	13883.9	13907.8	13936.9	13905.1	13894.5	13852.1	13780.5	13764.5	13727.4	13730.1	13751.3
5°	14005.9	14045.7	14029.8	13907.8	13761.9	13557.7	13345.5	13165.2	13045.8	13037.9	13029.9
7.5°	14239.3	14265.8	14141.1	13793.7	13385.3	12913.2	12467.7	12077.8	11841.8	11783.4	11770.1
10°	14605.3	14600.0	14257.8	13557.7	12743.5	11900.1	11184.0	10643.0	10327.4	10234.6	10210.7
12.5°	15013.7	14952.7	14297.6	13128.0	11836.4	10666.9	9759.8	9157.8	8828.9	8722.9	8696.3
15°	15435.4	15284.2	14199.5	12486.2	10722.6	9338.1	8386.0	7829.1	7651.4	7593.0	7582.4
17.5°	15827.9	15536.2	13918.4	11616.3	9452.2	8014.7	7272.1	7049.4	7091.8	7168.7	7171.4
20°	16212.5	15705.9	13467.5	10518.3	8112.9	6924.7	6672.8	6837.2	7038.7	7195.2	7216.4
22.5°	16591.7	15825.3	12886.7	9250.6	6914.1	6312.1	6489.8	6789.4	7020.2	7189.9	7219.1
25°	16910.0	15854.4	12085.7	7898.0	6081.3	6081.3	6402.2	6686.0	6914.1	7081.2	7110.4
27.5°	17026.7	15658.2	10955.9	6646.2	5662.3	5975.2	6280.2	6516.3	6709.9	6887.6	6919.4
30°	17071.8	15294.8	9651.1	5641.1	5489.9	5861.2	6115.8	6317.4	6500.4	6667.5	6696.6
32.5°	17079.7	14857.2	8266.7	5070.9	5370.6	5741.9	5911.6	6089.3	6285.5	6351.8	6362.5
35°	17130.1	14340.1	6808.0	4779.1	5259.2	5630.5	5765.7	5893.0	5574.8	5598.6	5619.9
37.5°	17276.0	13828.2	5588.0	4614.7	5187.6	5572.1	5733.9	5272.4	5023.1	4964.8	4956.8
40°	17549.1	13281.9	4683.7	4482.1	5161.0	5601.3	5529.7	4922.4	4492.7	4171.8	4124.1
42.5°	17928.4	12693.1	4105.5	4394.6	5179.6	5741.9	5245.9	4585.5	3872.1	3665.2	3638.7
45°	18355.4	12075.1	3792.5	4333.6	5243.3	5850.6	5187.6	4137.3	3583.0	3426.6	3413.3
47.5°	18769.1	11319.3	3630.8	4307.1	5330.8	5763.1	4940.9	3999.4	3445.1	3362.9	3370.9
50°	19243.8	10637.7	3532.6	4277.9	5407.7	5707.4	4662.4	3927.8	3392.1	3492.9	3598.9
52.5°	19644.3	9932.2	3445.1	4219.5	5436.9	5609.3	4590.8	3941.1	3392.1	3585.7	3686.5
55°	20119.0	9399.1	3344.3	4097.5	5381.2	5330.8	4540.4	4020.6	3431.9	3309.9	3320.5
57.5°	20731.7	9224.1	3232.9	3906.6	5195.5	4925.0	4516.6	4097.5	3408.0	3331.1	3357.6
60°	21580.4	9409.8	3187.9	3657.3	4906.4	4606.7	4519.2	4057.8	3240.9	3108.3	3110.9
62.5°	22389.3	9616.6	3185.2	3500.8	4551.1	4323.0	4458.2	3927.8	3156.0	3079.1	3108.3
65°	22654.5	9407.1	3057.9	3325.8	4150.6	3983.5	4346.8	3789.9	3092.4	2975.7	2970.4
67.5°	22299.1	8757.3	2800.6	3042.0	3691.8	3588.3	4201.0	3625.5	2991.6	2896.1	2880.2
70°	21243.5	7306.6	2482.4	2668.0	3169.3	3142.8	3970.2	3434.5	2856.3	2774.1	2705.2
72.5°	18403.1	5206.1	2092.5	2219.8	2580.5	2665.4	3652.0	3185.2	2665.4	2487.7	2381.6
75°	15114.5	3853.5	1718.6	1745.1	1959.9	2190.7	3214.4	2893.5	2440.0	2137.6	2055.4
77.5°	9255.9	2357.7	1368.5	1379.1	1405.6	1747.8	2646.8	2567.3	2153.5	1782.2	1723.9
80°	2996.9	1286.3	989.2	1039.6	960.1	1281.0	2047.4	2185.4	1848.5	1490.5	1426.8
82.5°	1140.4	750.6	668.3	702.8	665.7	859.3	1493.1	1750.4	1514.4	1225.3	997.2
85°	551.6	424.3	395.2	442.9	411.1	440.3	954.8	1288.9	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	490.6
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)