

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: P319669

Luminaire Tested: **GAN-SA5A-740-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319669
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5A-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23294 lumens
Efficiency: N/A
Efficacy: 143.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

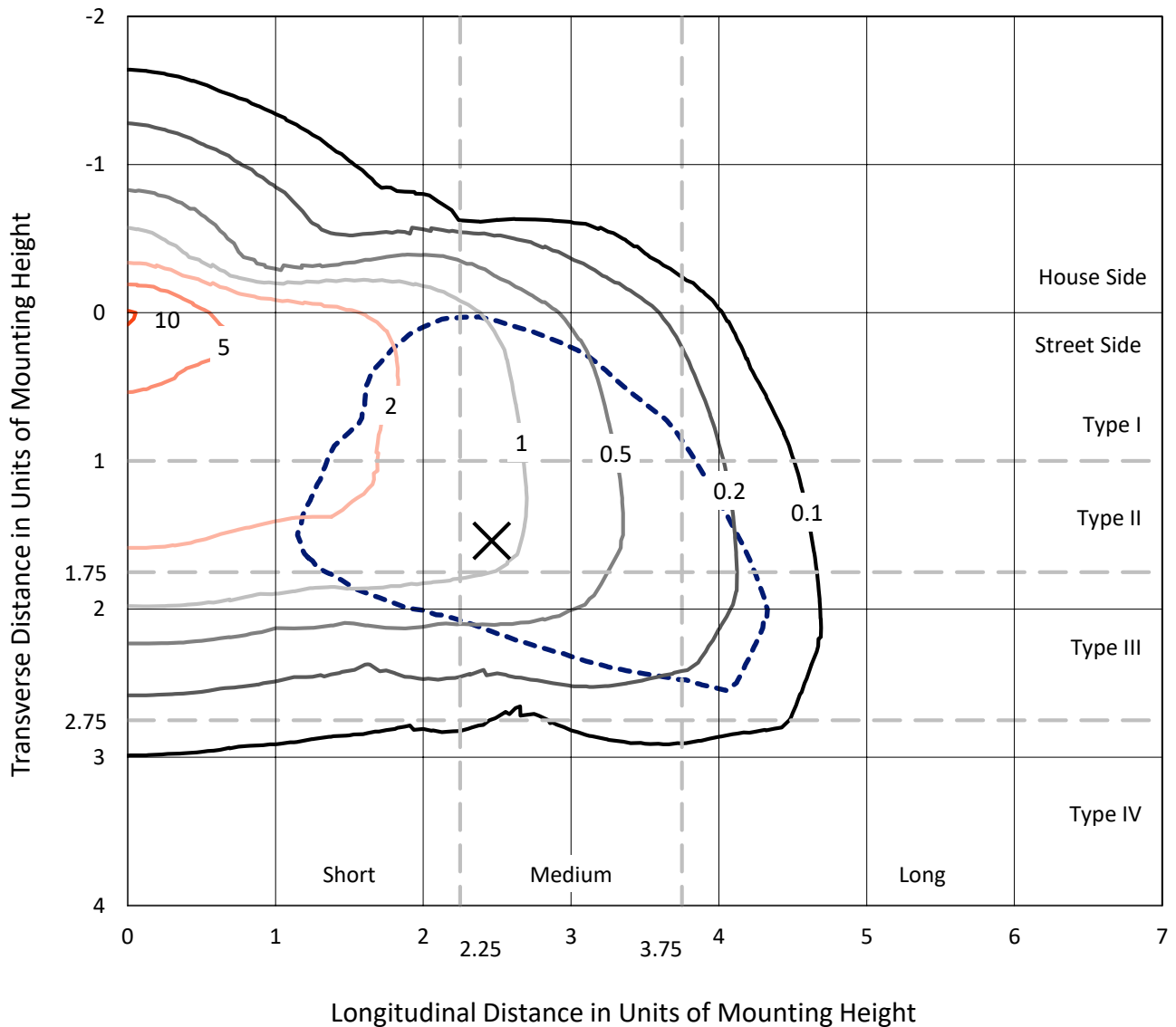
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

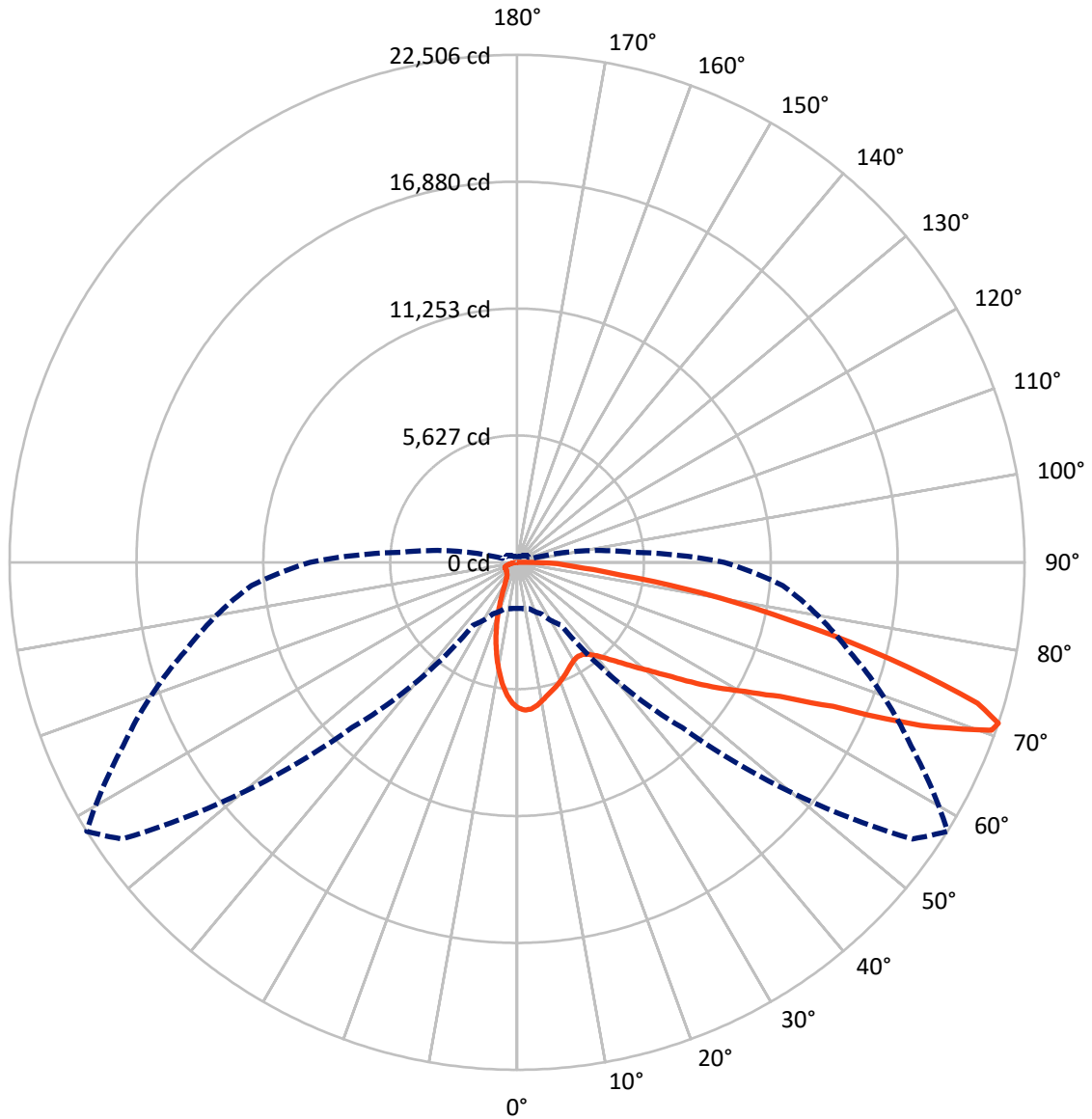
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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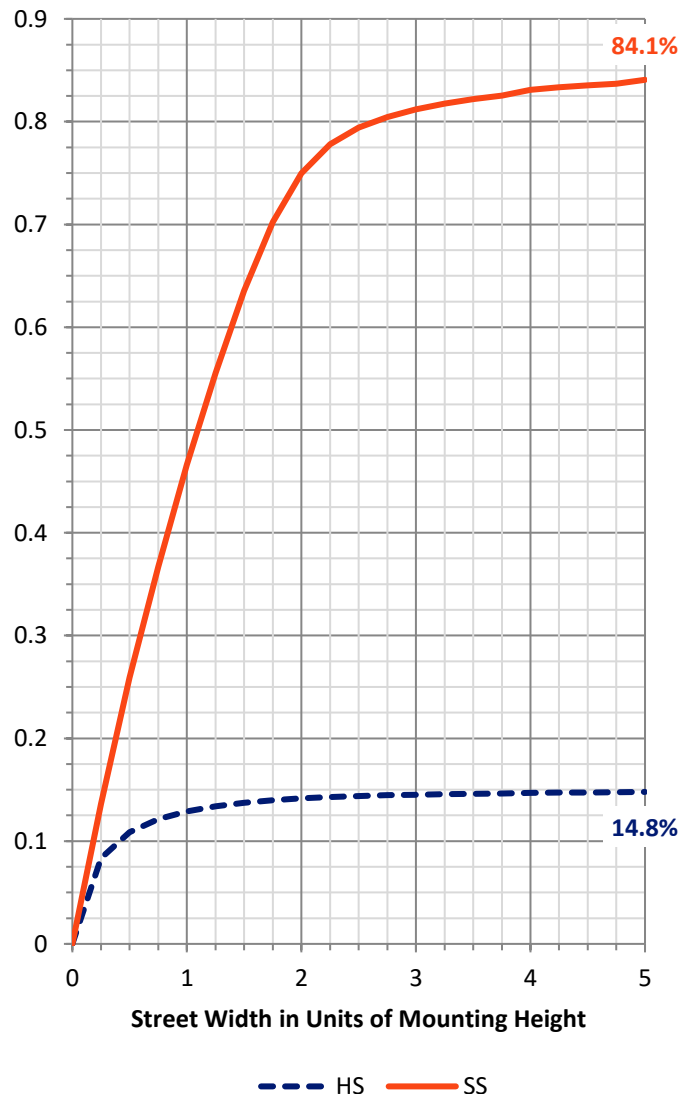
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3482.6	0.0	3482.6
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	19811.4	0.0	19811.4
	% Fixture	85.0	0.0	85.0
Total	Lumens	23294.0	0.0	23294.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.8	2.4
10°-20°	1238.1	5.3
20°-30°	1573.5	6.8
30°-40°	2004.3	8.6
40°-50°	2842.2	12.2
50°-60°	4398.4	18.9
60°-70°	5987.8	25.7
70°-80°	3994.6	17.1
80°-90°	698.4	3.0
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°	23294.0	100.0
0°-180°	23294.0	100.0

Coefficient of Utilization

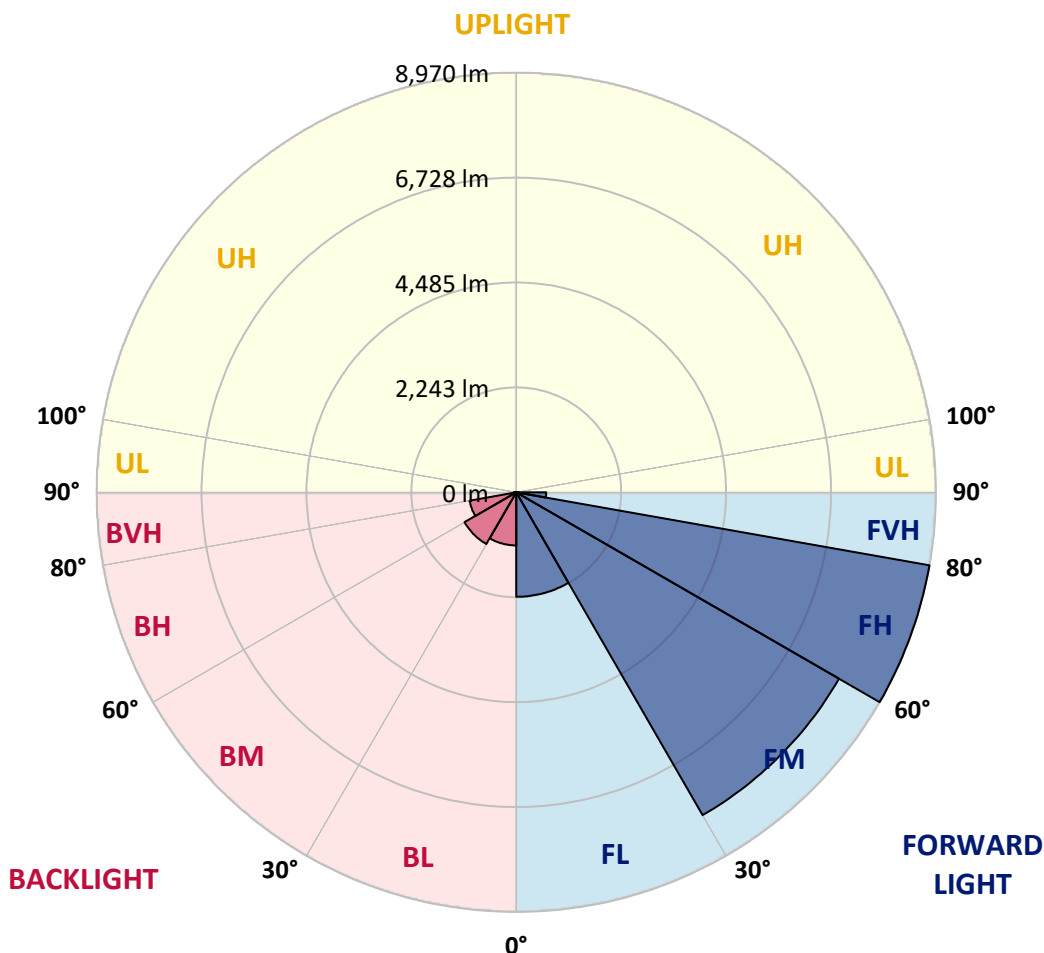


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2233.1	9.6			
FM (30°-60°)	7967.7	34.2			
FH (60°-80°)	8970.2	38.5			G4/12000
FVH (80°-90°)	640.4	2.7			G4/750
BL (0°-30°)	1135.2	4.9	B3/2500		
BM (30°-60°)	1277.2	5.5	B2/2500		
BH (60°-80°)	1012.2	4.3	B3/2500		G3/2500
BVH (80°-90°)	58.0	0.2			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6454.0	6454.0	6454.0	6454.0	6454.0	6454.0	6454.0	6454.0	6454.0	6454.0	6454.0
2.5°	6625.2	6616.3	6619.5	6613.0	6597.6	6582.2	6559.5	6563.5	6531.9	6484.8	6426.4
5°	6500.2	6497.0	6521.3	6535.1	6546.5	6537.6	6531.1	6539.2	6492.9	6428.0	6326.6
7.5°	6238.2	6202.5	6233.3	6279.5	6323.4	6356.6	6400.4	6406.1	6376.9	6308.8	6175.7
10°	5865.7	5831.6	5877.1	5949.3	6036.9	6116.4	6204.9	6221.1	6226.8	6165.1	6003.7
12.5°	5479.5	5453.5	5499.0	5600.4	5745.6	5868.2	6009.3	6033.7	6084.0	6042.6	5844.6
15°	5133.8	5124.1	5179.3	5279.1	5446.2	5633.7	5837.3	5881.9	5967.1	5953.4	5720.5
17.5°	4835.2	4832.8	4875.0	4979.7	5164.7	5401.6	5666.1	5741.6	5868.2	5884.4	5618.2
20°	4612.9	4608.0	4637.2	4714.3	4905.0	5173.6	5481.1	5585.0	5767.5	5824.3	5512.8
22.5°	4493.6	4492.8	4493.6	4530.1	4685.9	4935.8	5301.0	5427.6	5669.4	5776.5	5395.9
25°	4473.3	4470.9	4453.0	4449.0	4537.4	4737.0	5122.5	5262.0	5576.0	5743.2	5284.7
27.5°	4526.1	4529.3	4505.8	4467.7	4485.5	4606.4	4967.5	5116.8	5501.4	5736.7	5207.7
30°	4635.6	4634.0	4613.7	4573.9	4539.1	4557.7	4857.1	5006.4	5451.1	5765.1	5154.9
32.5°	4756.5	4765.4	4761.4	4739.5	4687.5	4612.9	4823.9	4969.9	5436.5	5833.3	5132.2
35°	4901.8	4911.5	4940.7	4957.7	4896.9	4776.8	4895.3	5021.8	5478.7	5961.5	5168.7
37.5°	5039.7	5064.9	5146.8	5219.0	5167.1	5033.2	5085.1	5175.2	5609.3	6163.5	5266.9
40°	5198.7	5220.6	5354.5	5507.9	5499.8	5361.0	5391.0	5451.1	5839.8	6453.2	5444.6
42.5°	5355.3	5399.2	5593.1	5810.5	5873.0	5750.5	5798.4	5830.0	6164.3	6837.0	5754.6
45°	5563.9	5610.9	5880.3	6142.4	6288.5	6219.5	6295.8	6307.9	6572.5	7359.5	6204.9
47.5°	5879.5	5933.1	6247.1	6522.2	6745.3	6752.6	6878.4	6873.5	7082.0	7957.5	6772.1
50°	6371.2	6448.3	6705.5	6962.8	7233.8	7384.7	7552.7	7529.1	7693.0	8594.5	7425.3
52.5°	7015.5	7051.2	7241.9	7431.8	7768.5	8106.8	8347.8	8326.7	8386.0	9249.3	8166.9
55°	7683.3	7710.1	7788.8	7892.6	8345.4	8897.2	9406.7	9373.5	9223.4	9929.3	8899.6
57.5°	8283.7	8338.1	8392.5	8435.5	8926.4	9723.2	10490.0	10492.4	10132.1	10662.8	9656.7
60°	8377.0	8424.9	8784.4	9123.6	9920.4	10825.1	11649.5	11625.1	11072.6	11458.8	10500.5
62.5°	7405.0	7512.9	8113.3	9015.6	10877.8	12840.6	13128.7	13098.7	12197.2	12439.8	11483.1
65°	5306.7	5429.2	6153.8	7509.6	10413.7	15061.5	15798.3	15394.2	13730.8	13646.4	12633.7
67.5°	3061.5	3090.7	3404.7	4493.6	7929.1	15177.5	19870.7	19305.2	16112.3	15015.2	13196.9
70°	2263.8	2263.0	2337.7	2765.3	4290.8	12387.1	21807.6	22314.7	18619.5	15465.6	12400.9
71°	2047.2	2049.6	2133.2	2517.0	3398.2	10368.3	21396.2	22506.2	19280.0	15243.2	11824.8
72.5°	1751.0	1759.1	1875.2	2257.4	2858.6	7150.2	19624.1	21357.3	19593.2	14694.7	10923.3
75°	1328.3	1346.9	1507.6	1902.8	2612.8	3626.2	14402.6	17054.3	17405.7	12966.4	8116.6
77.5°	947.7	968.8	1150.6	1600.1	2483.7	2732.8	9645.3	12439.8	12809.0	8309.7	3661.1
80°	598.8	624.0	761.1	1273.1	2333.6	2594.9	6061.3	8361.6	6984.7	2659.0	931.5
82.5°	351.3	370.8	472.2	831.7	1906.0	2499.2	3566.2	4634.8	2718.2	803.3	423.6
85°	203.7	212.6	294.5	529.9	1384.3	2358.8	2620.1	2590.8	1179.8	392.7	200.4
87.5°	94.9	105.5	174.5	276.7	768.4	1709.7	2070.7	1789.2	733.5	184.2	94.1
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°	6454.0	6454.0	6454.0	6454.0	6454.0	6454.0	6454.0	6454.0	6454.0	6454.0	6454.0
2.5°	6398.0	6384.2	6326.6	6275.5	6221.9	6152.1	6075.1	6065.3	6018.3	6027.2	6011.0
5°	6271.4	6236.5	6097.8	5972.0	5823.5	5690.5	5546.0	5479.5	5383.7	5377.2	5352.9
7.5°	6090.5	6025.6	5810.5	5572.0	5333.4	5106.2	4881.5	4733.8	4582.9	4518.8	4513.1
10°	5886.8	5776.5	5460.0	5107.0	4763.0	4431.1	4109.8	3872.1	3657.9	3556.4	3552.4
12.5°	5693.7	5530.6	5096.5	4616.1	4145.5	3715.5	3274.9	2962.5	2693.9	2603.8	2565.7
15°	5529.8	5300.2	4742.7	4128.5	3557.2	2960.0	2458.6	2130.0	1881.7	1795.7	1779.4
17.5°	5370.8	5075.4	4380.0	3636.0	2945.4	2289.0	1786.7	1542.5	1410.2	1375.3	1374.5
20°	5212.5	4844.1	4001.1	3132.1	2353.9	1712.1	1373.7	1264.2	1219.6	1215.5	1209.0
22.5°	5033.2	4599.1	3602.7	2626.6	1837.0	1346.1	1167.6	1123.8	1118.1	1132.7	1132.7
25°	4865.2	4355.7	3198.6	2131.6	1428.9	1123.0	1042.7	1033.7	1049.2	1075.1	1077.6
27.5°	4708.6	4121.2	2804.3	1691.8	1144.9	989.1	955.8	966.4	994.0	1024.0	1024.8
30°	4579.6	3899.7	2421.3	1333.2	967.2	889.3	883.6	904.7	934.8	958.3	964.0
32.5°	4479.8	3710.6	2051.3	1071.9	851.2	814.7	819.5	837.4	856.0	869.0	878.0
35°	4433.6	3548.3	1709.7	903.9	777.3	757.1	763.5	773.3	781.4	791.1	798.4
37.5°	4441.7	3422.5	1404.6	799.2	727.8	717.3	717.3	717.3	717.3	722.2	723.0
40°	4517.1	3350.3	1156.3	732.7	694.6	683.2	674.3	666.2	659.7	662.9	661.3
42.5°	4710.3	3343.8	974.5	690.5	667.8	649.1	631.3	619.9	611.8	615.1	616.7
45°	5038.1	3425.0	852.0	660.5	642.6	614.2	591.5	579.4	573.7	584.2	585.8
47.5°	5462.4	3601.9	777.3	638.6	619.1	581.8	557.4	546.1	547.7	563.1	567.2
50°	6009.3	3889.1	741.6	624.8	602.9	554.2	529.0	519.3	524.2	546.1	551.0
52.5°	6609.8	4302.9	745.7	620.7	592.3	533.9	507.1	495.8	503.9	524.2	528.2
55°	7302.7	4800.3	813.0	626.4	576.9	520.9	489.3	469.8	476.3	495.0	498.2
57.5°	8072.8	5369.9	948.5	624.8	557.4	508.8	470.6	441.4	446.3	457.6	460.9
60°	8874.4	6058.0	1158.7	629.7	548.5	494.2	445.5	409.0	407.3	417.1	418.7
62.5°	9836.8	6854.0	1398.9	632.9	554.2	475.5	412.2	376.5	371.6	374.1	375.7
65°	10828.3	7430.1	1308.8	619.9	572.0	460.1	383.0	344.9	335.9	334.3	335.1
67.5°	10859.2	6812.6	917.7	594.0	579.4	452.0	361.1	318.1	303.5	297.8	297.0
70°	9738.6	5534.7	714.9	566.4	550.1	439.0	340.8	296.2	274.3	265.3	264.5
71°	9191.7	5094.9	677.5	552.6	528.2	426.0	331.9	286.4	263.7	254.0	252.4
72.5°	8334.0	4567.5	632.1	530.7	486.0	392.7	314.8	272.6	249.1	237.7	235.3
75°	5980.9	2986.8	542.8	473.1	402.5	313.2	275.9	245.0	224.8	211.0	209.3
77.5°	2304.4	1188.7	410.6	393.5	308.3	245.0	227.2	211.8	197.2	183.4	182.6
80°	712.4	531.5	299.4	296.2	223.1	182.6	176.9	172.8	167.2	152.5	149.3
82.5°	380.6	305.1	206.1	191.5	146.1	121.7	128.2	129.8	130.6	115.2	113.6
85°	181.8	161.5	116.0	108.7	85.2	68.2	78.7	85.2	86.0	70.6	65.7
87.5°	86.8	84.4	54.4	41.4	31.6	22.7	27.6	34.1	37.3	26.8	23.5
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)