

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: P324797

Luminaire Tested: **GAN-SA3B-740-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3B-740-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14282 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

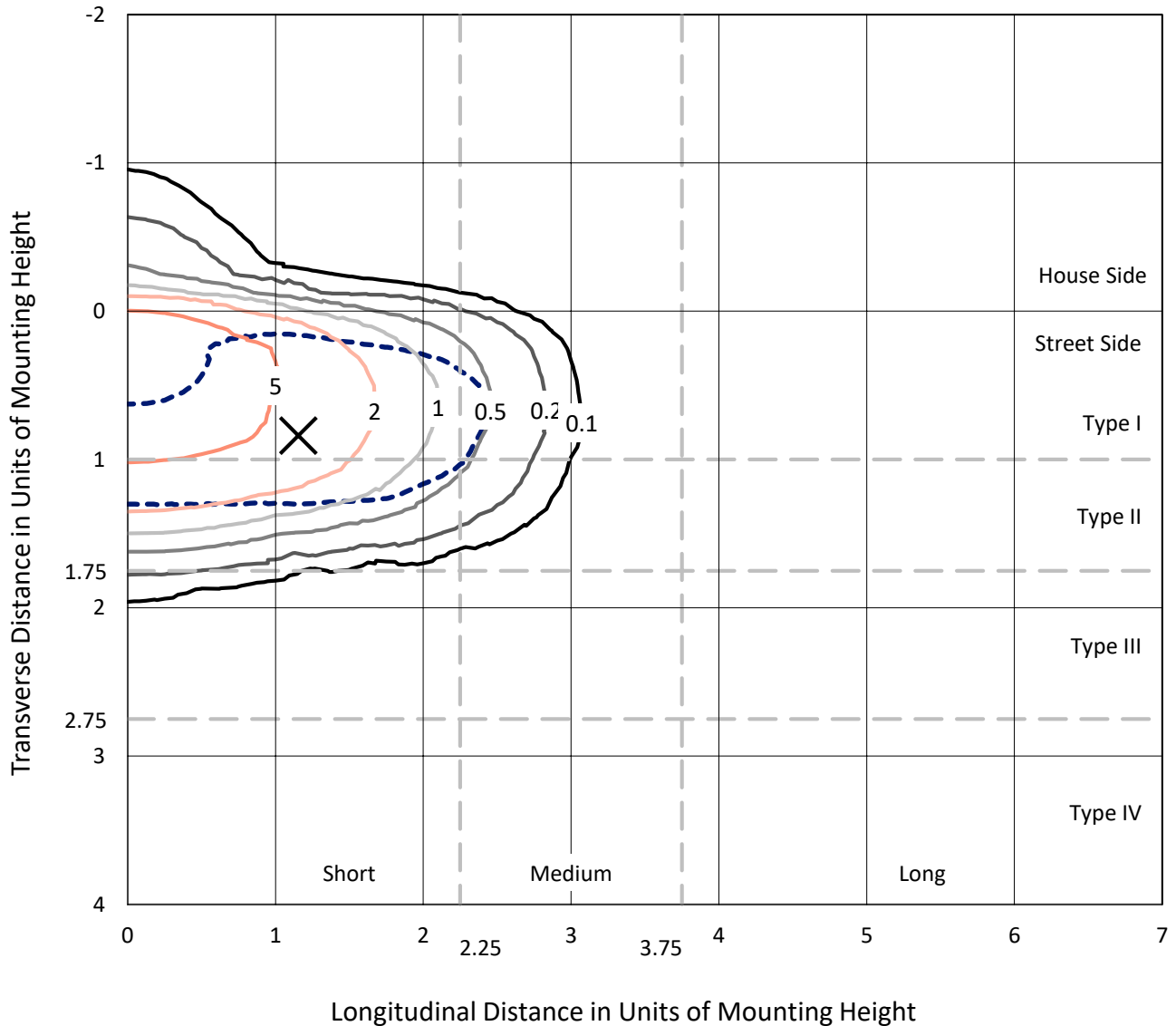
Input Watts (W): 124
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

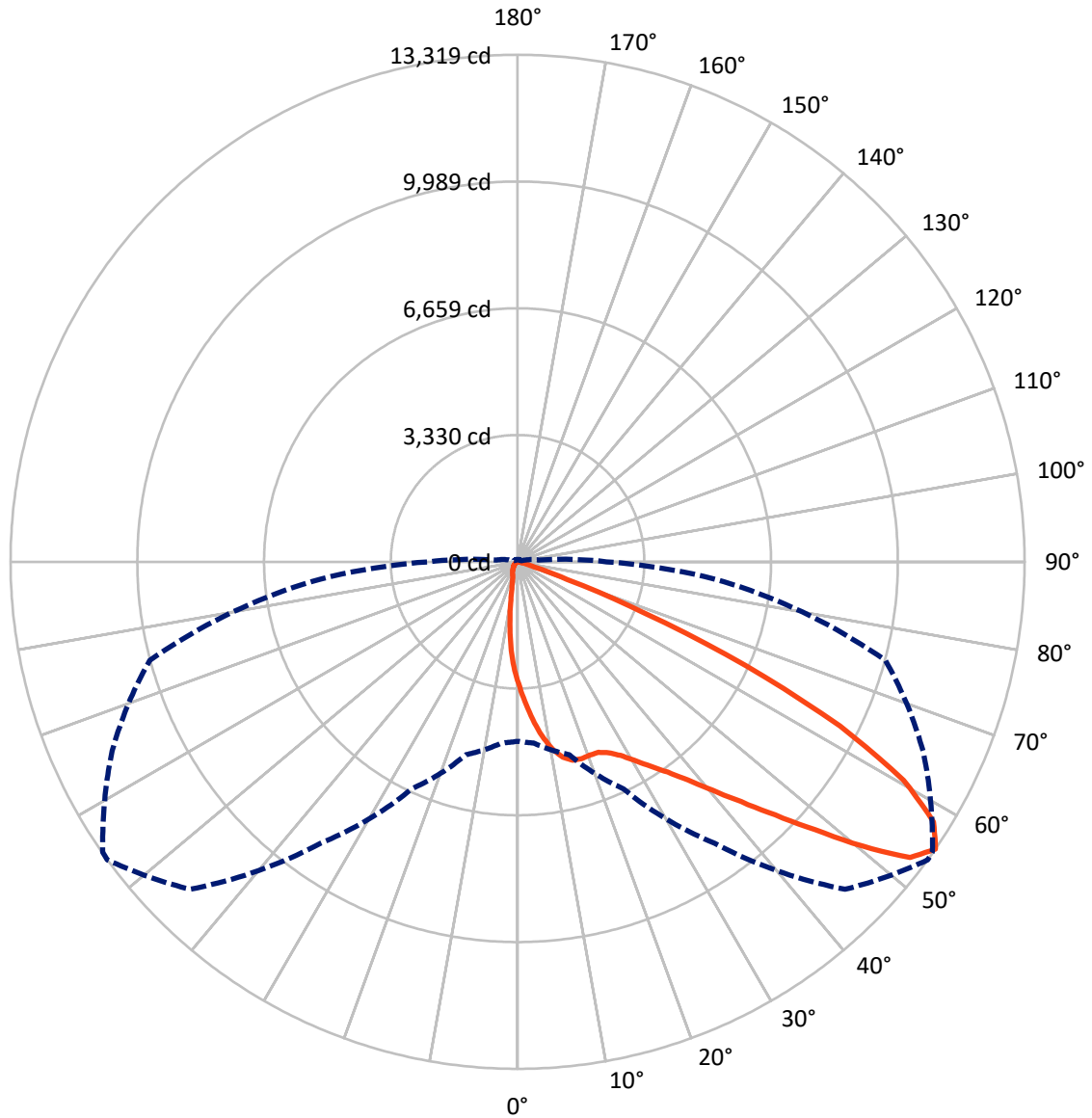
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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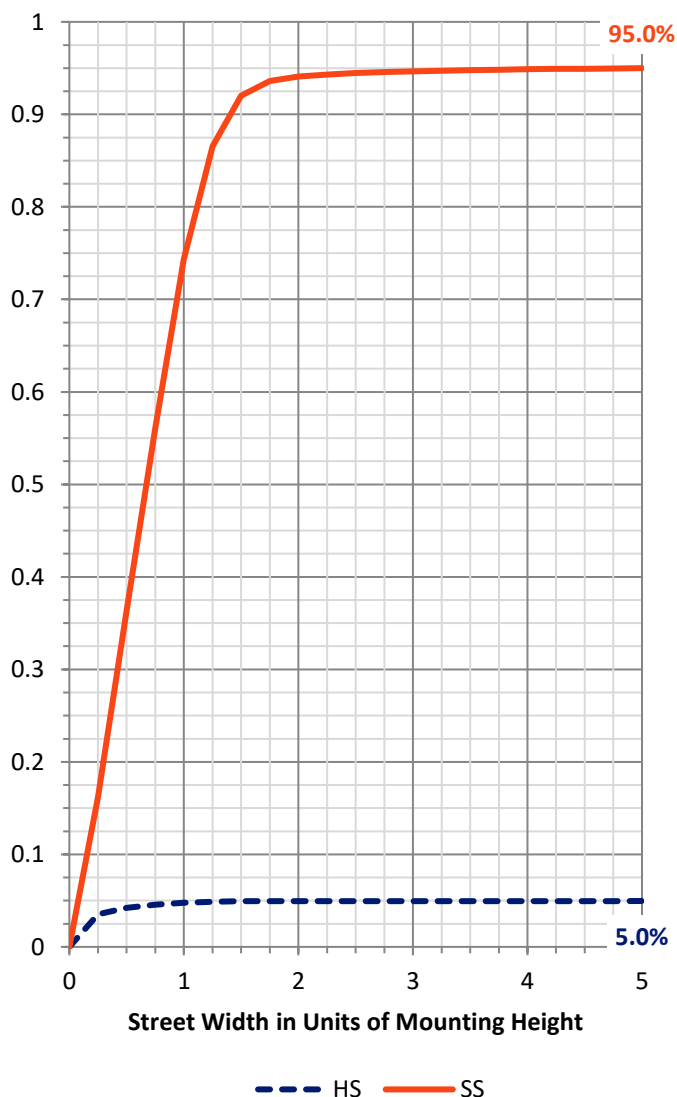
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	712.6	0.0	712.6
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	13569.4	0.0	13569.4
	% Fixture	95.0	0.0	95.0
Total	Lumens	14282.0	0.0	14282.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.6	2.1
10°-20°	807.8	5.7
20°-30°	1379.2	9.7
30°-40°	2213.4	15.5
40°-50°	3537.1	24.8
50°-60°	3790.0	26.5
60°-70°	1945.9	13.6
70°-80°	294.8	2.1
80°-90°	19.2	0.1
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°	14282.0	100.0
0°-180°	14282.0	100.0

Coefficient of Utilization

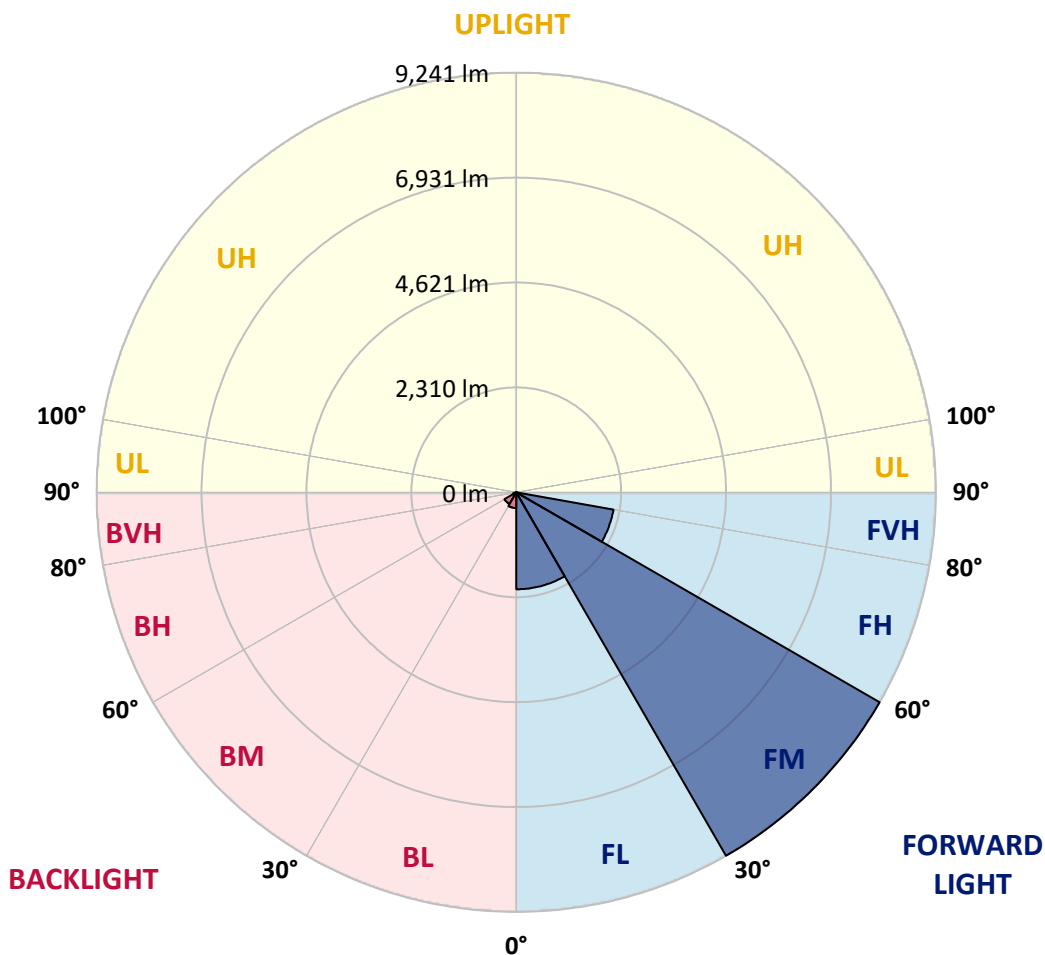


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2134.9	14.9			
FM (30°-60°)	9241.1	64.7			
FH (60°-80°)	2175.0	15.2			G2/5000
FVH (80°-90°)	18.4	0.1			G1/100
BL (0°-30°)	346.7	2.4	B1/500		
BM (30°-60°)	299.4	2.1	B1/1000		
BH (60°-80°)	65.7	0.5	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3198.6	3198.6	3198.6	3198.6	3198.6	3198.6	3198.6	3198.6	3198.6	3198.6	3198.6
2.5°	4014.0	3954.1	3956.0	3928.9	3829.6	3751.8	3671.0	3651.9	3526.1	3394.1	3267.1
5°	4707.8	4664.1	4653.6	4601.1	4463.0	4316.8	4160.1	4123.8	3877.7	3607.5	3341.7
7.5°	5064.3	5065.0	5056.3	5037.2	4950.9	4809.0	4617.8	4579.6	4244.6	3839.4	3419.4
10°	4960.7	4984.2	5032.3	5095.8	5161.8	5143.9	5000.2	4965.7	4601.8	4084.9	3505.7
12.5°	4718.9	4722.0	4775.7	4879.9	5069.9	5264.8	5267.3	5255.5	4942.8	4341.5	3600.7
15°	4598.7	4610.4	4630.1	4697.4	4877.5	5189.5	5412.8	5429.5	5255.5	4614.1	3701.9
17.5°	4677.6	4694.3	4677.6	4685.6	4789.9	5070.5	5438.1	5480.7	5528.8	4883.6	3797.5
20°	4891.6	4907.1	4877.5	4844.8	4865.1	5036.0	5420.2	5477.6	5742.8	5122.9	3877.7
22.5°	5180.3	5186.5	5141.4	5087.8	5073.0	5153.2	5435.0	5494.2	5914.3	5339.4	3928.2
25°	5497.9	5503.5	5447.4	5385.7	5350.5	5383.2	5556.5	5600.9	6065.4	5546.0	3957.2
27.5°	5843.9	5848.9	5778.6	5702.7	5662.0	5663.2	5757.0	5804.5	6226.3	5781.6	3980.7
30°	6209.7	6207.2	6142.5	6037.0	5985.2	5984.0	6045.6	6093.7	6459.5	6083.9	4012.7
32.5°	6620.5	6615.5	6523.6	6392.9	6334.3	6342.9	6397.8	6425.6	6748.8	6405.8	4070.1
35°	7161.4	7147.2	7008.4	6846.2	6738.3	6735.2	6781.4	6803.6	7117.6	6795.6	4165.7
37.5°	7863.3	7850.3	7662.2	7426.6	7274.9	7218.1	7273.0	7301.4	7643.7	7295.8	4319.3
40°	8555.3	8542.3	8430.7	8214.8	7981.1	7844.8	7887.9	7918.2	8300.6	7902.7	4512.9
42.5°	9032.7	9043.8	9082.6	9100.5	8881.6	8595.4	8615.1	8646.6	8990.7	8551.6	4734.4
45°	9158.5	9182.5	9402.1	9833.2	9915.3	9692.0	9485.4	9502.7	9692.0	9200.4	4955.8
47.5°	8780.4	8824.8	9248.5	10050.3	10744.8	10902.7	10511.7	10488.9	10364.9	9725.3	5113.1
50°	7921.2	7961.9	8510.9	9696.9	10996.5	12058.6	11741.5	11674.3	10955.2	10039.2	5168.6
52.5°	6677.8	6727.2	7173.1	8584.3	10522.2	12574.2	12906.0	12849.9	11388.1	10063.9	5177.8
55°	4715.9	4775.7	5247.5	6579.1	9019.1	12164.0	13318.6	13302.0	11747.7	9998.5	5197.6
57.5°	2650.3	2693.5	3202.3	4217.5	6605.7	10595.0	12887.5	12997.9	11964.8	9885.1	5227.2
60°	1176.8	1188.5	1451.9	2099.5	3867.2	8097.0	11653.3	11839.6	11778.6	9733.3	5277.1
62.5°	652.5	642.7	642.7	872.7	1680.7	5012.5	9502.7	9810.4	10983.5	9553.8	5279.6
65°	511.3	502.1	475.5	479.2	640.2	2224.7	6580.4	7127.5	9473.7	9027.7	5102.0
67.5°	433.6	425.6	399.1	388.6	397.8	734.0	3615.5	4183.6	7188.5	7660.3	4419.2
70°	366.4	360.8	347.2	334.3	310.9	362.7	1383.4	1769.5	4429.7	5095.8	3016.6
72.5°	294.8	292.4	297.3	286.2	257.8	241.8	473.1	573.0	1989.7	2274.0	1242.8
75°	254.1	252.9	255.3	244.2	212.2	168.4	240.5	262.7	561.3	556.3	251.6
77.5°	165.3	167.1	211.6	206.6	182.6	112.3	124.6	134.5	170.2	127.7	76.5
80°	105.5	104.2	107.3	171.5	164.1	85.7	62.3	65.4	82.0	62.9	37.0
82.5°	64.1	62.9	70.3	80.2	82.6	59.8	38.2	38.9	51.2	40.7	19.7
85°	5.6	7.4	42.6	39.5	28.4	18.5	18.5	19.7	27.1	24.1	11.1
87.5°	0.0	0.0	7.4	11.1	6.2	6.8	6.8	7.4	10.5	10.5	5.6
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°	3198.6	3198.6	3198.6	3198.6	3198.6	3198.6	3198.6	3198.6	3198.6	3198.6	3198.6
2.5°	3201.1	3136.9	3007.4	2882.8	2777.3	2675.6	2559.6	2444.9	2391.2	2369.6	2347.4
5°	3206.6	3074.6	2807.6	2538.6	2259.9	2008.8	1794.8	1575.2	1465.5	1417.3	1395.1
7.5°	3214.0	3012.9	2581.2	2129.7	1680.7	1340.3	1043.0	851.8	769.1	756.2	724.1
10°	3215.2	2938.3	2318.5	1678.2	1126.8	808.0	621.7	523.0	486.6	480.5	470.0
12.5°	3217.7	2850.1	2026.7	1242.8	751.2	540.3	449.6	416.9	407.1	406.5	406.5
15°	3225.1	2757.6	1723.9	895.6	539.7	428.0	394.7	381.8	378.1	379.9	379.3
17.5°	3225.1	2648.4	1426.6	667.4	436.1	384.9	366.4	357.7	356.5	358.3	359.0
20°	3201.7	2515.8	1154.0	519.3	386.7	357.1	340.5	332.4	329.4	330.6	331.2
22.5°	3145.6	2353.0	931.9	429.9	354.0	331.8	313.9	301.6	296.7	297.3	297.3
25°	3058.0	2159.9	729.0	371.9	327.5	304.7	283.7	269.5	266.4	265.8	267.1
27.5°	2945.7	1946.5	580.4	327.5	296.1	274.5	253.5	241.8	239.3	239.9	240.5
30°	2835.3	1725.1	457.6	289.9	260.9	240.5	224.5	219.0	219.0	220.8	221.4
32.5°	2734.2	1512.3	362.0	257.2	229.4	210.9	201.7	201.1	204.2	205.4	206.0
35°	2647.2	1315.6	299.8	231.9	204.8	188.7	185.6	188.1	191.8	194.3	194.9
37.5°	2585.5	1139.8	262.1	210.9	185.6	172.7	172.1	177.0	181.9	187.5	188.7
40°	2559.6	991.2	236.2	192.4	170.2	160.4	158.5	165.3	174.5	182.6	183.8
42.5°	2538.0	869.7	214.0	174.5	157.9	143.7	143.1	151.7	162.8	170.8	172.7
45°	2519.5	772.2	193.7	155.4	141.9	123.4	125.2	136.3	144.9	153.6	155.4
47.5°	2481.3	692.0	171.5	135.1	117.2	105.5	109.2	119.0	125.8	138.8	140.6
50°	2412.8	626.6	148.6	110.4	95.6	91.3	96.8	103.6	112.3	123.4	124.6
52.5°	2366.6	577.3	128.9	92.5	78.9	80.2	85.7	88.2	93.1	97.5	96.2
55°	2340.0	550.2	112.9	80.2	67.2	70.9	72.2	69.1	66.6	62.3	60.4
57.5°	2337.0	525.5	100.5	69.7	59.2	61.1	56.7	46.3	37.6	32.7	31.5
60°	2332.0	495.3	90.7	58.6	52.4	50.0	40.7	25.3	17.9	16.7	16.7
62.5°	2278.4	448.4	83.3	49.3	44.4	37.6	23.4	11.7	9.9	10.5	10.5
65°	2107.5	383.0	75.9	40.1	35.2	27.1	11.7	6.8	3.7	4.3	4.3
67.5°	1791.7	305.3	67.8	30.8	26.5	17.3	6.8	3.1	0.0	0.0	0.0
70°	1199.6	189.3	57.4	21.6	17.3	10.5	4.9	0.6	0.0	0.0	0.0
72.5°	460.1	102.4	46.3	13.0	11.1	7.4	3.1	0.0	0.0	0.0	0.0
75°	103.6	67.2	32.1	9.3	8.0	4.9	1.2	0.0	0.0	0.0	0.0
77.5°	39.5	48.7	18.5	6.2	5.6	3.1	0.0	0.0	0.0	0.0	0.0
80°	19.1	29.0	8.6	3.7	3.1	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	9.9	11.1	3.7	1.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.6	5.6	1.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	1.9	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)