

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: P324767

Luminaire Tested: **GAN-SA3C-730-U-AFL-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P324767
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-SA3C-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA 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: 16097 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

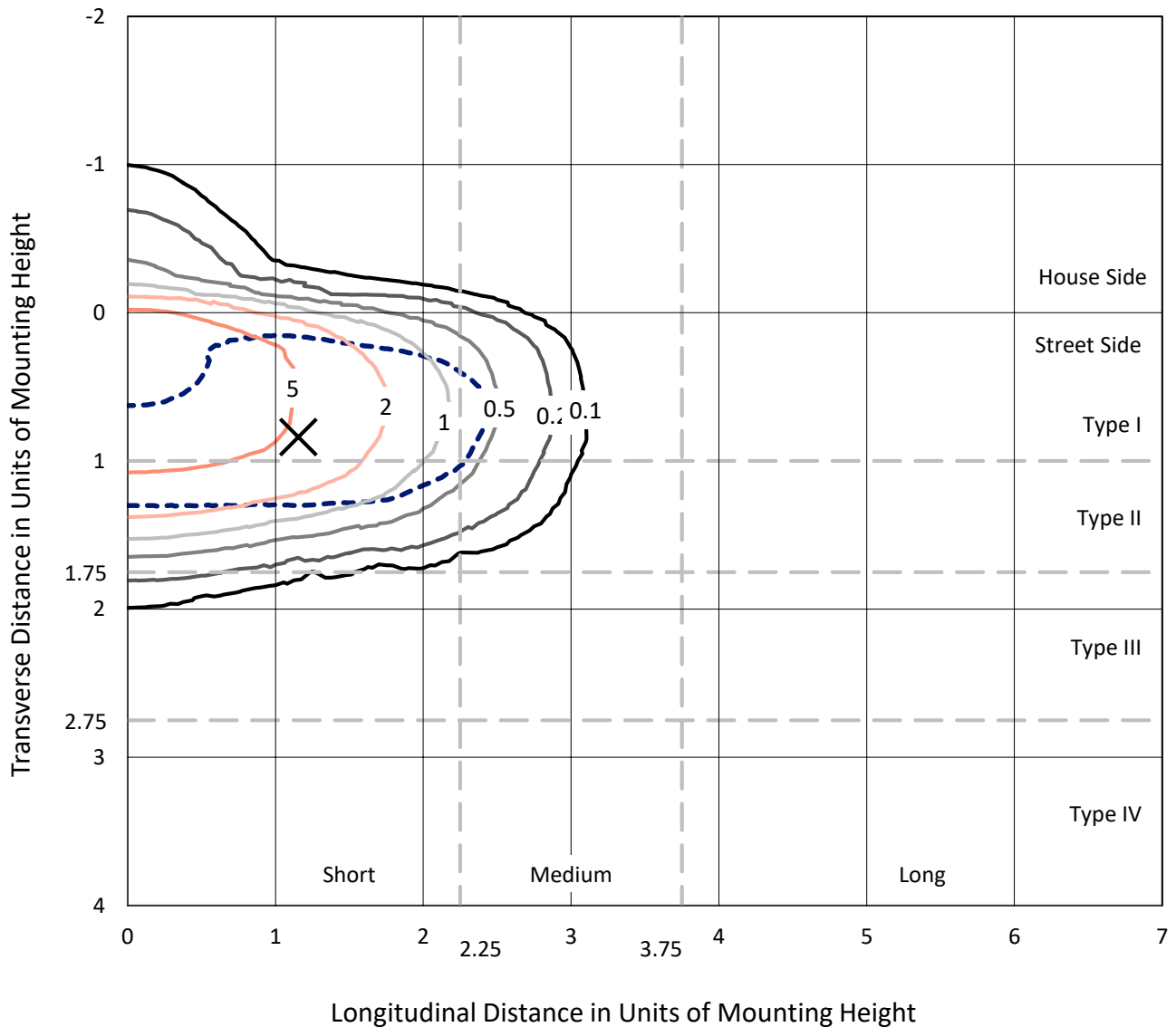
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

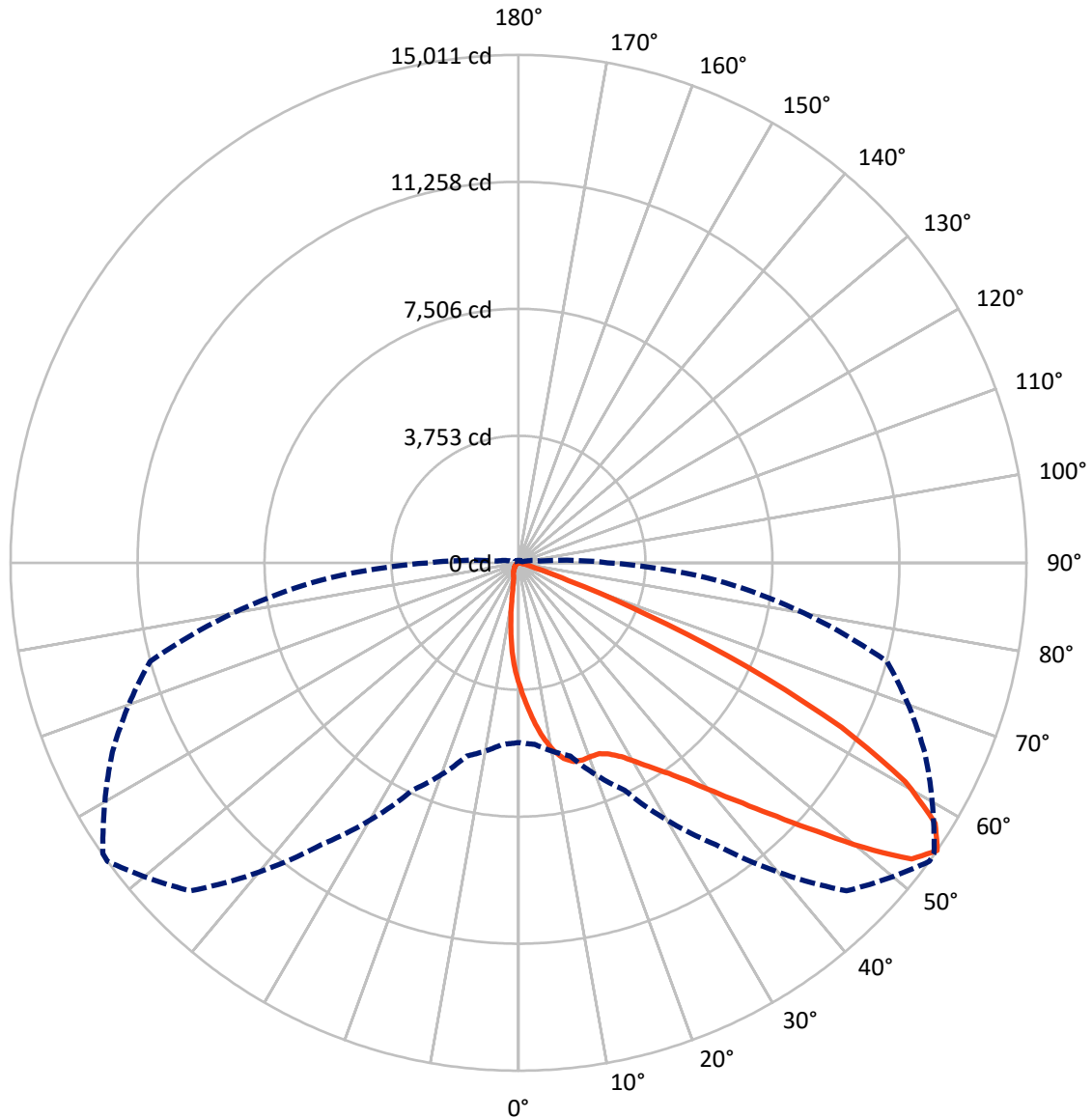
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 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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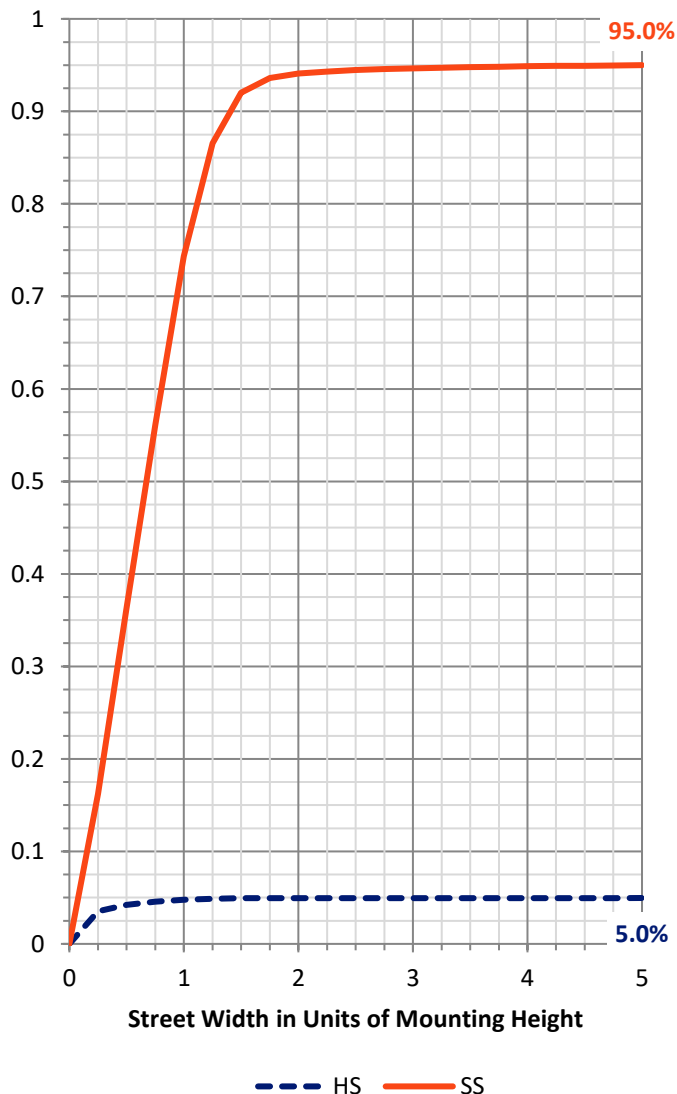
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	803.1	0.0	803.1
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	15293.9	0.0	15293.9
	% Fixture	95.0	0.0	95.0
Total	Lumens	16097.0	0.0	16097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.0	2.1
10°-20°	910.5	5.7
20°-30°	1554.5	9.7
30°-40°	2494.7	15.5
40°-50°	3986.6	24.8
50°-60°	4271.7	26.5
60°-70°	2193.2	13.6
70°-80°	332.2	2.1
80°-90°	21.6	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°	16097.0	100.0
0°-180°	16097.0	100.0

Coefficient of Utilization

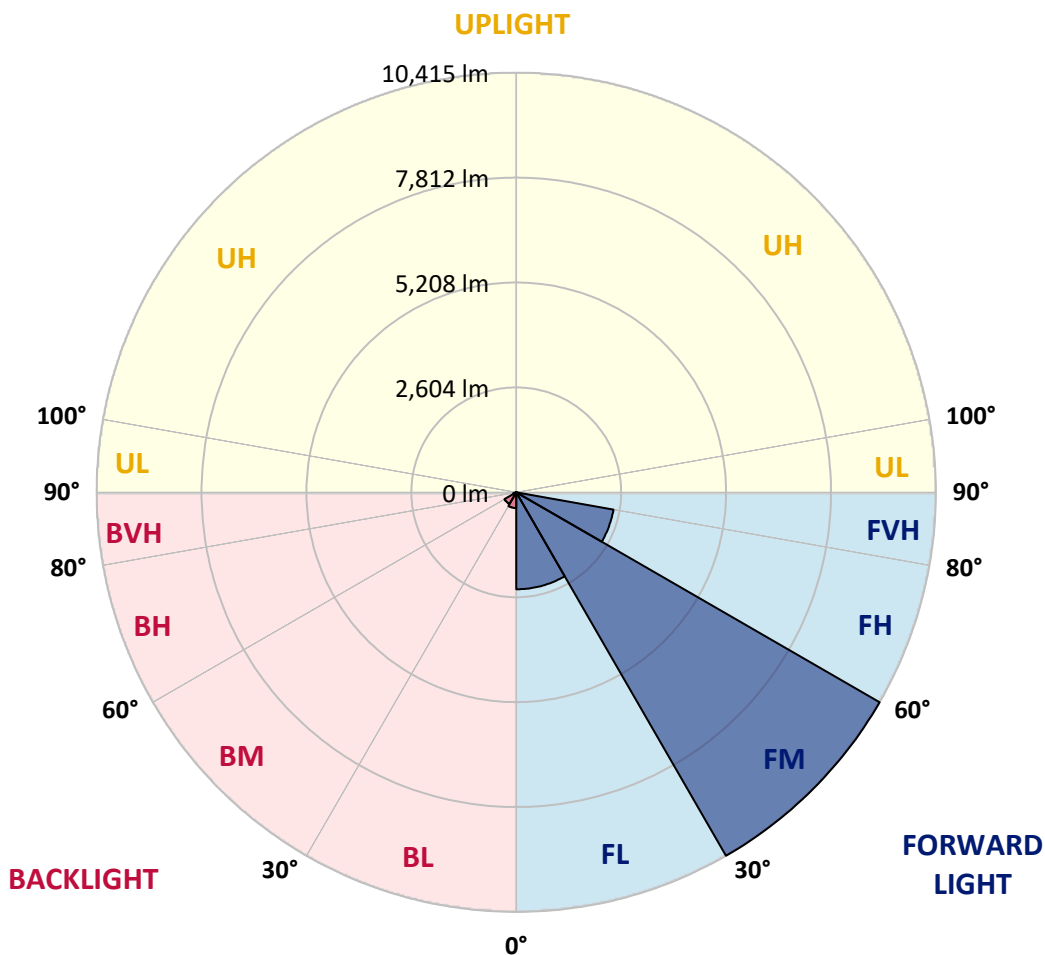


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2406.2	14.9			
FM (30°-60°)	10415.5	64.7			
FH (60°-80°)	2451.4	15.2			G2/5000
FVH (80°-90°)	20.8	0.1			G1/100
BL (0°-30°)	390.7	2.4	B1/500		
BM (30°-60°)	337.5	2.1	B1/1000		
BH (60°-80°)	74.0	0.5	B0/110		G0/110
BVH (80°-90°)	0.9	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°	3605.1	3605.1	3605.1	3605.1	3605.1	3605.1	3605.1	3605.1	3605.1	3605.1	3605.1
2.5°	4524.1	4456.6	4458.7	4428.1	4316.2	4228.6	4137.6	4116.0	3974.2	3825.4	3682.2
5°	5306.1	5256.8	5245.0	5185.9	5030.2	4865.4	4688.8	4647.8	4370.4	4066.0	3766.4
7.5°	5707.9	5708.6	5698.9	5677.3	5580.0	5420.1	5204.6	5161.5	4784.1	4327.3	3853.9
10°	5591.1	5617.6	5671.8	5743.4	5817.8	5797.6	5635.6	5596.7	5186.6	4604.0	3951.3
12.5°	5318.6	5322.1	5382.6	5500.1	5714.2	5933.9	5936.6	5923.4	5571.0	4893.2	4058.3
15°	5183.1	5196.3	5218.5	5294.3	5497.3	5849.0	6100.7	6119.5	5923.4	5200.5	4172.3
17.5°	5272.1	5290.8	5272.1	5281.1	5398.6	5714.9	6129.2	6177.2	6231.4	5504.2	4280.1
20°	5513.3	5530.7	5497.3	5460.5	5483.4	5676.0	6109.0	6173.7	6472.6	5774.0	4370.4
22.5°	5838.6	5845.6	5794.8	5734.3	5717.7	5808.0	6125.7	6192.5	6665.9	6018.0	4427.5
25°	6196.6	6202.9	6139.6	6070.1	6030.5	6067.3	6262.7	6312.7	6836.2	6250.8	4460.1
27.5°	6586.6	6592.2	6512.9	6427.4	6381.5	6382.9	6488.6	6542.1	7017.6	6516.4	4486.5
30°	6998.8	6996.1	6923.1	6804.2	6745.8	6744.4	6813.9	6868.1	7280.4	6857.0	4522.7
32.5°	7461.8	7456.2	7352.7	7205.3	7139.3	7149.0	7210.9	7242.1	7606.4	7219.9	4587.3
35°	8071.5	8055.5	7899.1	7716.2	7594.6	7591.1	7643.2	7668.3	8022.1	7659.2	4695.1
37.5°	8862.6	8848.0	8635.9	8370.4	8199.4	8135.4	8197.3	8229.3	8615.1	8223.0	4868.2
40°	9642.5	9627.9	9502.1	9258.8	8995.3	8841.7	8890.4	8924.4	9355.4	8907.0	5086.5
42.5°	10180.6	10193.1	10236.9	10257.0	10010.3	9687.7	9709.9	9745.4	10133.3	9638.3	5336.0
45°	10322.4	10349.5	10597.0	11082.9	11175.3	10923.7	10690.8	10710.3	10923.7	10369.7	5585.6
47.5°	9896.2	9946.3	10423.9	11327.6	12110.3	12288.3	11847.6	11821.8	11682.1	10961.2	5762.8
50°	8927.9	8973.8	9592.5	10929.3	12393.9	13591.0	13233.7	13157.9	12347.4	11315.1	5825.4
52.5°	7526.5	7582.1	8084.7	9675.2	11859.4	14172.2	14546.2	14482.9	12835.4	11342.9	5835.8
55°	5315.2	5382.6	5914.4	7415.2	10165.3	13709.9	15011.2	14992.4	13240.6	11269.2	5858.1
57.5°	2987.1	3035.7	3609.3	4753.5	7445.1	11941.4	14525.3	14649.7	13485.3	11141.3	5891.5
60°	1326.4	1339.6	1636.4	2366.3	4358.6	9126.0	13134.3	13344.2	13275.4	10970.3	5947.8
62.5°	735.5	724.4	724.4	983.6	1894.3	5649.5	10710.3	11057.2	12379.3	10768.0	5950.5
65°	576.3	565.9	536.0	540.1	721.6	2507.4	7416.6	8033.2	10677.6	10175.0	5750.3
67.5°	488.7	479.7	449.8	437.9	448.4	827.2	4075.0	4715.2	8102.0	8633.8	4980.8
70°	412.9	406.7	391.4	376.8	350.4	408.8	1559.2	1994.4	4992.6	5743.4	3400.0
72.5°	332.3	329.5	335.1	322.6	290.6	272.5	533.2	645.8	2242.6	2563.0	1400.7
75°	286.4	285.0	287.8	275.3	239.1	189.8	271.1	296.1	632.6	627.0	283.6
77.5°	186.3	188.4	238.4	232.9	205.8	126.5	140.4	151.5	191.9	143.9	86.2
80°	118.9	117.5	121.0	193.3	184.9	96.6	70.2	73.7	92.5	70.9	41.7
82.5°	72.3	70.9	79.2	90.4	93.2	67.4	43.1	43.8	57.7	45.9	22.2
85°	6.3	8.3	48.0	44.5	32.0	20.9	20.9	22.2	30.6	27.1	12.5
87.5°	0.0	0.0	8.3	12.5	7.0	7.6	7.6	8.3	11.8	11.8	6.3
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°	3605.1	3605.1	3605.1	3605.1	3605.1	3605.1	3605.1	3605.1	3605.1	3605.1	3605.1
2.5°	3607.9	3535.6	3389.6	3249.2	3130.3	3015.6	2884.9	2755.6	2695.1	2670.8	2645.8
5°	3614.1	3465.4	3164.4	2861.3	2547.1	2264.1	2022.9	1775.4	1651.7	1597.5	1572.4
7.5°	3622.5	3395.8	2909.2	2400.4	1894.3	1510.6	1175.5	960.0	866.9	852.3	816.1
10°	3623.9	3311.7	2613.1	1891.5	1270.1	910.7	700.7	589.5	548.5	541.5	529.7
12.5°	3626.6	3212.3	2284.3	1400.7	846.7	609.0	506.8	469.9	458.8	458.1	458.1
15°	3635.0	3108.0	1943.0	1009.4	608.3	482.4	444.9	430.3	426.1	428.2	427.5
17.5°	3635.0	2985.0	1607.9	752.2	491.5	433.8	412.9	403.2	401.8	403.9	404.6
20°	3608.6	2835.5	1300.6	585.3	435.9	402.5	383.7	374.7	371.2	372.6	373.3
22.5°	3545.3	2652.0	1050.4	484.5	399.0	374.0	353.8	339.9	334.4	335.1	335.1
25°	3446.6	2434.4	821.7	419.2	369.1	343.4	319.8	303.8	300.3	299.6	301.0
27.5°	3320.1	2193.9	654.1	369.1	333.7	309.3	285.7	272.5	269.7	270.4	271.1
30°	3195.6	1944.4	515.8	326.7	294.1	271.1	253.0	246.8	246.8	248.9	249.6
32.5°	3081.6	1704.5	408.1	289.9	258.6	237.7	227.3	226.6	230.1	231.5	232.2
35°	2983.6	1482.8	337.8	261.4	230.8	212.7	209.2	212.0	216.2	219.0	219.7
37.5°	2914.1	1284.6	295.4	237.7	209.2	194.6	193.9	199.5	205.1	211.3	212.7
40°	2884.9	1117.1	266.2	216.9	191.9	180.7	178.7	186.3	196.7	205.8	207.2
42.5°	2860.6	980.2	241.2	196.7	178.0	162.0	161.3	171.0	183.5	192.6	194.6
45°	2839.7	870.3	218.3	175.2	159.9	139.0	141.1	153.6	163.4	173.1	175.2
47.5°	2796.6	780.0	193.3	152.2	132.1	118.9	123.0	134.2	141.8	156.4	158.5
50°	2719.5	706.3	167.5	124.4	107.7	102.9	109.1	116.8	126.5	139.0	140.4
52.5°	2667.3	650.7	145.3	104.3	89.0	90.4	96.6	99.4	105.0	109.8	108.4
55°	2637.4	620.1	127.2	90.4	75.8	79.9	81.3	77.9	75.1	70.2	68.1
57.5°	2633.9	592.3	113.3	78.6	66.7	68.8	64.0	52.1	42.4	36.8	35.5
60°	2628.4	558.2	102.2	66.0	59.1	56.3	45.9	28.5	20.2	18.8	18.8
62.5°	2567.9	505.4	93.8	55.6	50.1	42.4	26.4	13.2	11.1	11.8	11.8
65°	2375.3	431.7	85.5	45.2	39.6	30.6	13.2	7.6	4.2	4.9	4.9
67.5°	2019.4	344.1	76.5	34.8	29.9	19.5	7.6	3.5	0.0	0.0	0.0
70°	1352.1	213.4	64.6	24.3	19.5	11.8	5.6	0.7	0.0	0.0	0.0
72.5°	518.6	115.4	52.1	14.6	12.5	8.3	3.5	0.0	0.0	0.0	0.0
75°	116.8	75.8	36.1	10.4	9.0	5.6	1.4	0.0	0.0	0.0	0.0
77.5°	44.5	54.9	20.9	7.0	6.3	3.5	0.0	0.0	0.0	0.0	0.0
80°	21.5	32.7	9.7	4.2	3.5	1.4	0.0	0.0	0.0	0.0	0.0
82.5°	11.1	12.5	4.2	2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.3	6.3	2.1	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	2.1	0.7	0.7	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)