

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: P268415

Luminaire Tested: **GAN-AF-04-LED-U-AFL-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268415
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-04-LED-U-AFL-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA 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: 11251.7 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 129
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: 28.75 FT

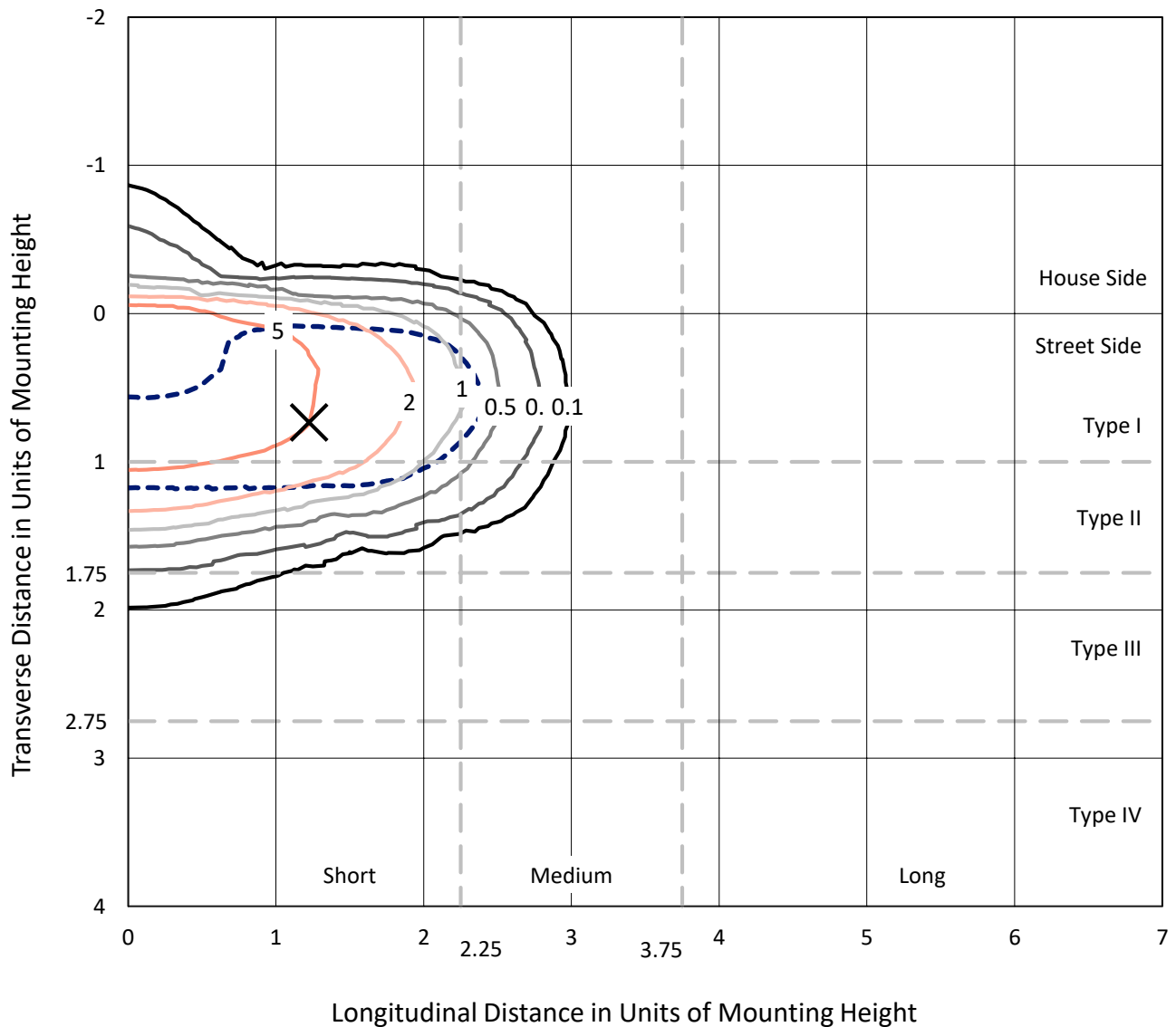


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

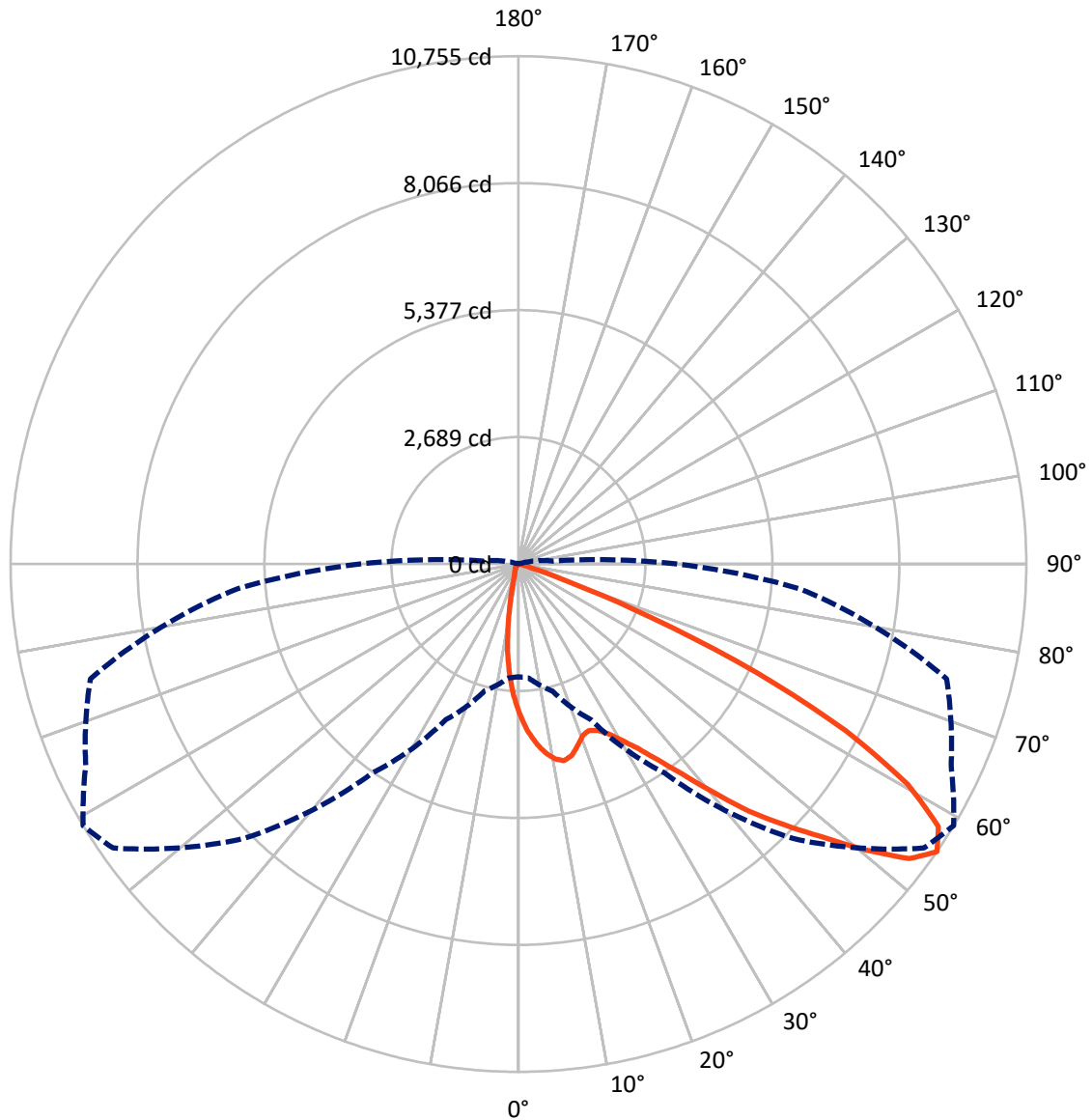


Based on 20 foot mounting height. Maximum calculated value = 9.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical



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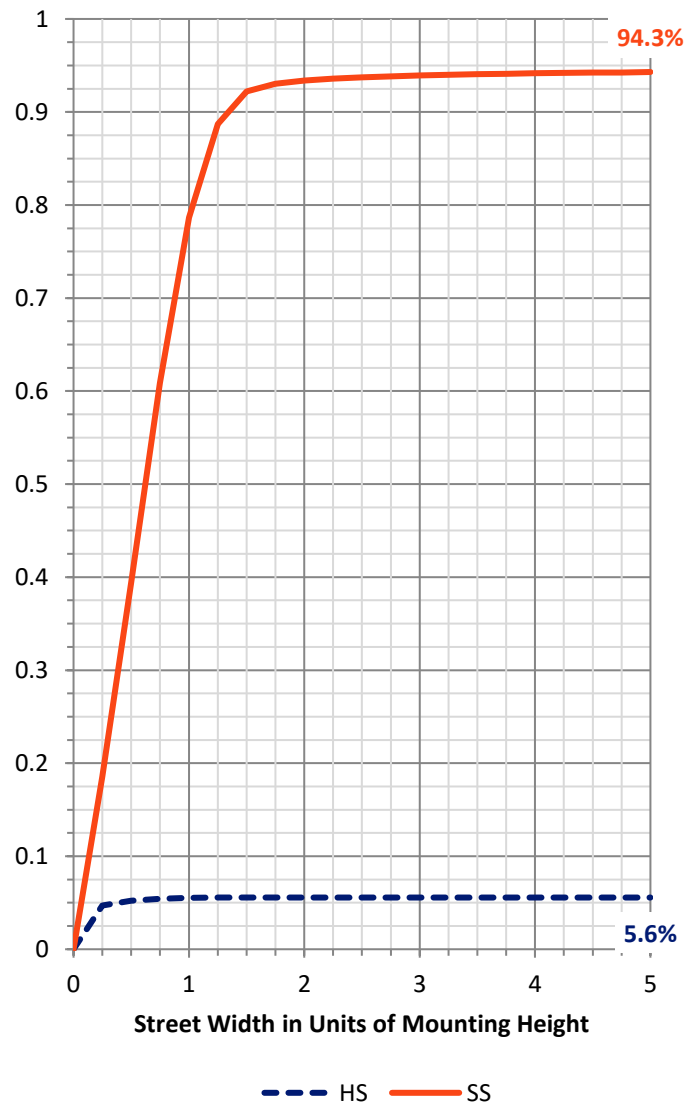
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	628.5	0.0	628.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	10623.2	0.0	10623.2
	% Fixture	94.4	0.0	94.4
Total	Lumens	11251.7	0.0	11251.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	265.3	2.4
10°-20°	635.2	5.6
20°-30°	1080.9	9.6
30°-40°	1858.8	16.5
40°-50°	2869.8	25.5
50°-60°	2885.1	25.6
60°-70°	1479.5	13.1
70°-80°	160.3	1.4
80°-90°	16.8	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°	11251.7	100.0
0°-180°	11251.7	100.0

Coefficient of Utilization



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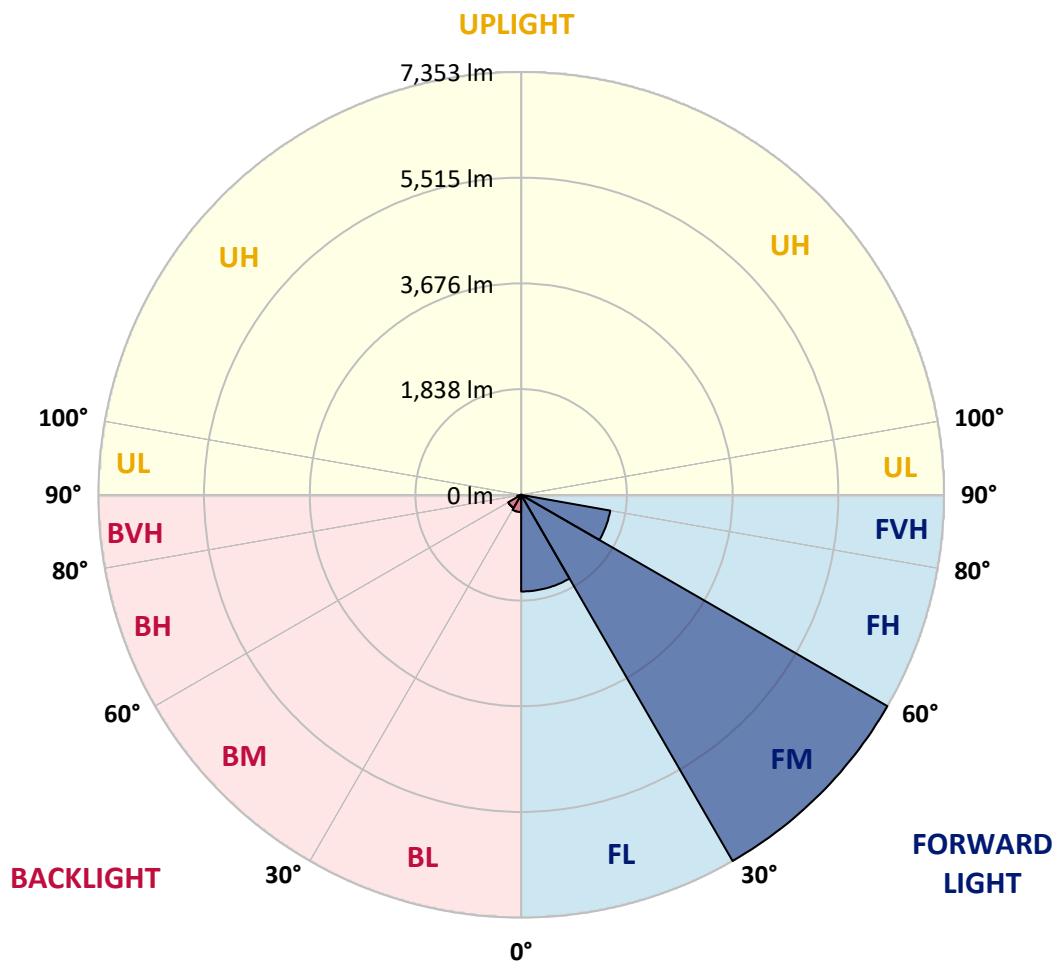
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1681.4	14.9			
FM	(30°-60°)	7352.9	65.3			
FH	(60°-80°)	1572.5	14.0			G1/1800
FVH	(80°-90°)	16.4	0.1			G1/100
BL	(0°-30°)	300.0	2.7	B1/500		
BM	(30°-60°)	260.8	2.3	B1/1000		
BH	(60°-80°)	67.3	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3
2.5°	3747.6	3707.8	3695.8	3687.9	3651.4	3605.5	3543.2	3513.9	3454.2	3357.9	3239.6
5°	4090.9	4083.6	4057.0	4042.5	4003.2	3938.2	3838.6	3790.8	3695.8	3533.8	3322.0
7.5°	3940.9	3986.7	4023.1	4084.4	4161.3	4158.7	4075.0	4025.2	3918.9	3705.1	3413.6
10°	3361.2	3398.4	3458.1	3597.0	3879.8	4129.5	4227.8	4191.9	4107.0	3862.5	3502.0
12.5°	3247.6	3243.7	3254.3	3294.9	3442.8	3798.8	4201.8	4274.2	4257.0	4006.6	3585.7
15°	3308.1	3303.4	3302.1	3316.1	3351.9	3502.0	4007.2	4215.0	4348.5	4140.1	3656.7
17.5°	3477.3	3457.4	3446.8	3435.6	3425.0	3462.2	3773.6	4049.7	4362.4	4257.0	3715.7
20°	3767.6	3734.3	3695.2	3631.5	3571.8	3553.1	3675.2	3879.8	4312.8	4345.9	3754.2
22.5°	4132.2	4089.7	4021.9	3905.7	3784.2	3713.9	3723.7	3826.1	4238.4	4442.8	3772.3
25°	4541.8	4487.4	4397.1	4235.7	4057.0	3932.2	3867.2	3903.0	4204.4	4556.5	3792.9
27.5°	4980.7	4920.2	4802.1	4582.3	4379.7	4211.2	4078.3	4073.6	4262.3	4705.1	3826.1
30°	5415.6	5406.4	5252.3	5019.9	4751.7	4546.4	4355.3	4330.6	4423.7	4911.0	3891.7
32.5°	5995.9	5926.3	5737.7	5498.6	5189.1	4942.8	4716.5	4659.4	4671.2	5150.7	3993.3
35°	6727.8	6651.4	6385.7	6055.7	5709.7	5418.9	5168.7	5091.0	5061.7	5543.1	4164.6
37.5°	7200.5	7199.1	7032.6	6696.5	6325.3	6004.6	5732.4	5641.4	5582.2	6017.2	4430.3
40°	7213.1	7244.3	7266.2	7262.8	6998.6	6703.2	6461.5	6349.2	6211.8	6650.7	4773.6
42.5°	6826.0	6906.3	7099.6	7427.5	7584.3	7466.7	7262.8	7152.7	6948.2	7328.6	5191.8
45°	6302.8	6358.6	6696.5	7300.7	7901.8	8223.8	8068.3	7871.2	7601.5	8035.8	5567.1
47.5°	6068.4	6078.3	6296.8	6960.1	7925.6	8844.0	8938.1	8617.5	8195.1	8605.6	5860.5
50°	5367.8	5385.8	5687.2	6369.8	7645.4	9136.8	9812.0	9507.9	8842.6	9044.5	5967.4
52.5°	4045.7	4070.9	4453.4	5399.7	6875.1	9011.8	10437.5	10363.8	9551.8	9258.9	5973.4
55°	2387.1	2420.4	2785.6	3634.8	5407.6	8217.8	10483.9	10754.9	10111.5	9385.8	5964.0
57.5°	1114.8	1138.2	1347.3	1872.4	3363.3	6494.7	9784.2	10486.6	10420.2	9452.9	6029.9
60°	592.3	598.9	649.5	810.7	1519.9	4118.2	8418.2	9469.5	10138.7	9545.7	6110.2
62.5°	452.8	454.8	452.1	471.4	638.8	1828.1	6363.1	7784.8	9005.2	9476.0	6021.2
65°	392.4	395.8	377.2	372.4	409.6	652.1	3780.2	5549.1	7076.3	8535.2	5415.0
67.5°	352.0	353.3	330.7	311.4	318.1	352.6	1491.4	3037.9	4683.9	6256.2	3925.0
70°	324.0	322.8	298.1	267.5	258.9	241.0	474.0	1113.5	2238.3	3172.6	1825.4
72.5°	286.9	287.5	275.6	235.7	215.1	168.6	219.7	324.6	668.0	864.4	427.7
75°	254.3	250.9	236.3	211.1	177.2	110.9	109.0	144.7	205.8	204.5	92.3
77.5°	184.0	180.6	185.3	173.4	136.2	71.8	54.4	69.7	83.6	80.9	26.0
80°	134.7	132.8	119.6	144.1	120.3	49.1	33.9	37.2	43.2	36.6	7.9
82.5°	92.3	91.6	84.4	79.7	68.5	29.9	21.2	23.3	27.8	20.7	4.0
85°	14.6	16.6	61.1	48.5	40.6	13.2	14.6	15.9	18.5	11.3	1.3
87.5°	0.0	0.0	28.6	25.2	7.9	5.3	8.7	9.3	9.3	6.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3	3167.3
2.5°	3179.3	3112.8	2990.0	2863.2	2745.7	2605.5	2509.2	2436.9	2353.2	2330.7	2379.8
5°	3201.2	3075.6	2811.4	2523.9	2253.7	1954.2	1725.0	1543.7	1379.7	1324.0	1374.4
7.5°	3235.8	3049.1	2618.2	2144.8	1674.6	1207.1	887.2	676.7	542.4	502.6	523.9
10°	3270.2	3010.6	2394.4	1695.9	1053.2	587.6	382.5	305.5	276.9	270.8	274.3
12.5°	3298.8	2958.7	2121.4	1205.9	563.1	314.8	250.4	237.7	233.6	233.6	235.0
15°	3316.1	2880.4	1798.1	767.0	324.0	237.7	218.5	214.4	214.4	215.1	216.5
17.5°	3314.0	2780.9	1444.2	464.2	242.4	210.6	199.2	195.9	195.2	196.5	197.2
20°	3289.6	2650.7	1088.9	306.1	211.1	191.9	180.6	174.6	174.0	175.3	176.6
22.5°	3243.1	2490.0	778.9	235.7	190.6	174.0	160.0	154.7	154.7	156.0	157.4
25°	3186.6	2293.6	532.5	199.9	171.9	154.7	141.5	136.8	138.1	141.5	142.1
27.5°	3116.2	2072.4	361.8	171.2	149.4	135.5	125.6	122.2	125.6	130.2	131.5
30°	3055.8	1842.0	258.4	148.1	126.8	116.9	110.9	110.9	115.5	124.1	126.1
32.5°	3009.3	1618.8	199.2	130.9	110.2	101.6	98.3	101.6	109.0	117.5	119.6
35°	3003.4	1435.0	168.6	116.9	98.3	89.7	88.4	94.3	101.6	108.2	109.6
37.5°	3049.1	1265.0	152.1	105.6	87.7	79.7	78.3	85.7	93.0	100.9	102.9
40°	3136.2	1131.4	140.0	95.0	79.1	70.3	67.7	73.0	83.1	93.7	96.3
42.5°	3249.0	1021.3	126.8	84.4	70.3	58.4	55.2	61.1	71.8	83.1	86.2
45°	3356.5	926.3	112.2	72.4	59.1	45.2	43.8	51.8	57.1	68.5	71.1
47.5°	3415.6	842.6	99.6	59.1	45.9	36.6	36.6	38.4	43.8	57.1	59.7
50°	3395.8	775.5	86.2	43.8	31.9	27.8	27.8	27.2	35.3	45.9	47.8
52.5°	3355.9	737.1	74.4	33.9	21.9	19.9	18.0	19.9	24.6	29.3	29.9
55°	3349.9	730.4	62.4	27.2	15.4	13.2	9.9	9.9	9.9	9.3	7.9
57.5°	3396.4	741.0	52.5	21.9	11.3	8.7	5.3	0.0	0.0	0.0	0.0
60°	3444.2	752.3	45.2	15.4	7.9	4.6	0.7	0.0	0.0	0.0	0.0
62.5°	3364.5	727.1	37.9	9.3	6.0	1.9	0.0	0.0	0.0	0.0	0.0
65°	2955.6	618.8	29.9	6.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2102.3	414.4	19.9	4.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	959.5	173.4	12.7	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	205.2	53.8	8.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	41.9	39.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.2	61.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.9	44.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.3	6.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)