

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: P191741

Luminaire Tested: **GAN-AF-03-LED-U-AFL-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191741
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-03-LED-U-AFL-7050-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K, 1200mA 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: 16319 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 191
Input Voltage (V): NR
Input Current (A_{in}): 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

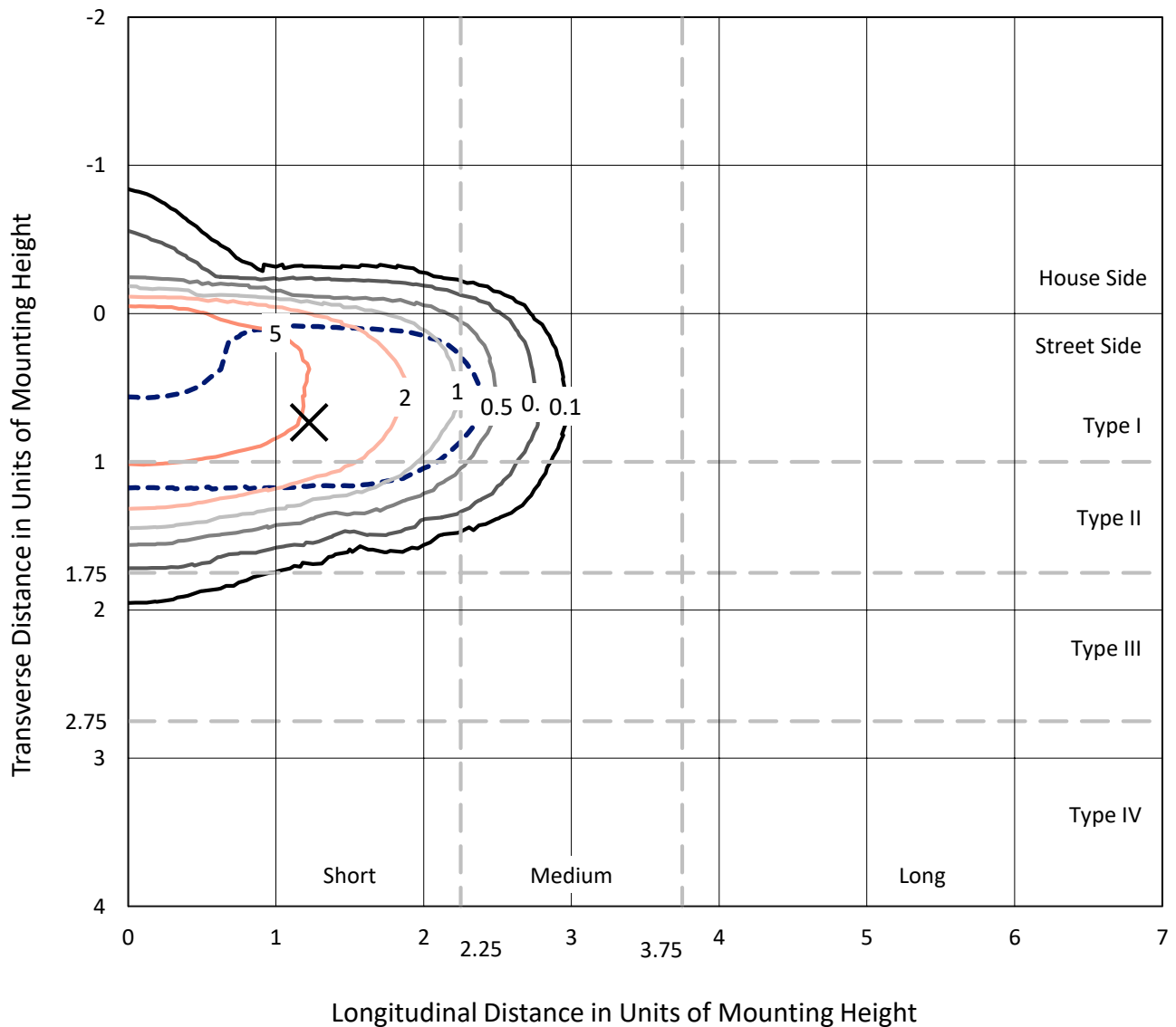


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

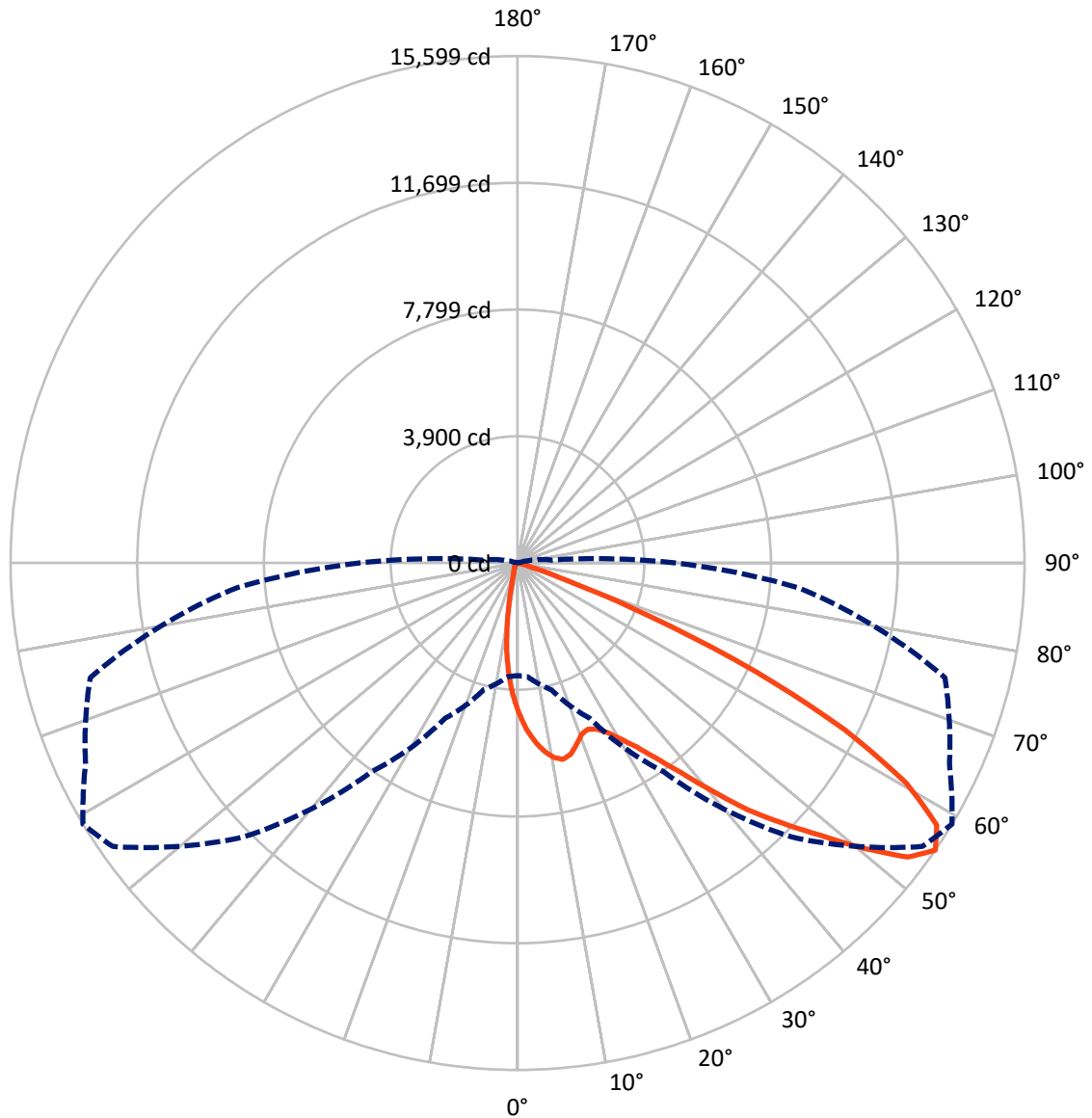


Based on 25 foot mounting height. Maximum calculated value = 9.1 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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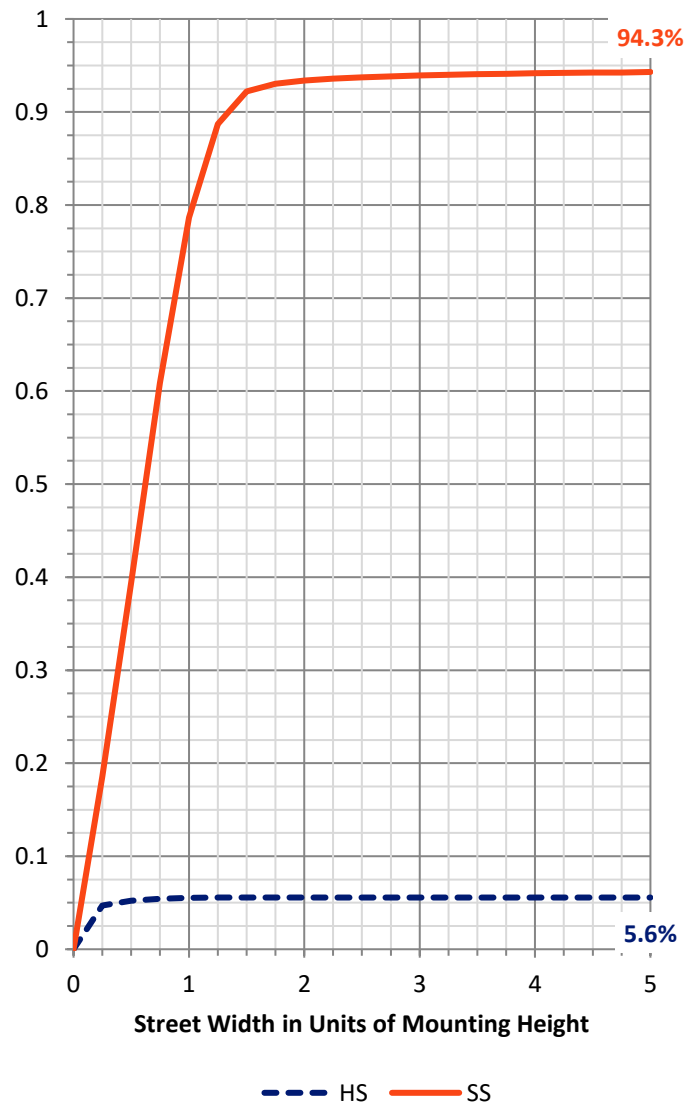
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	911.5	0.0	911.5
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	15407.5	0.0	15407.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	16319.0	0.0	16319.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	384.8	2.4
10°-20°	921.3	5.6
20°-30°	1567.6	9.6
30°-40°	2696.0	16.5
40°-50°	4162.3	25.5
50°-60°	4184.4	25.6
60°-70°	2145.8	13.1
70°-80°	232.5	1.4
80°-90°	24.3	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°	16319.0	100.0
0°-180°	16319.0	100.0

Coefficient of Utilization



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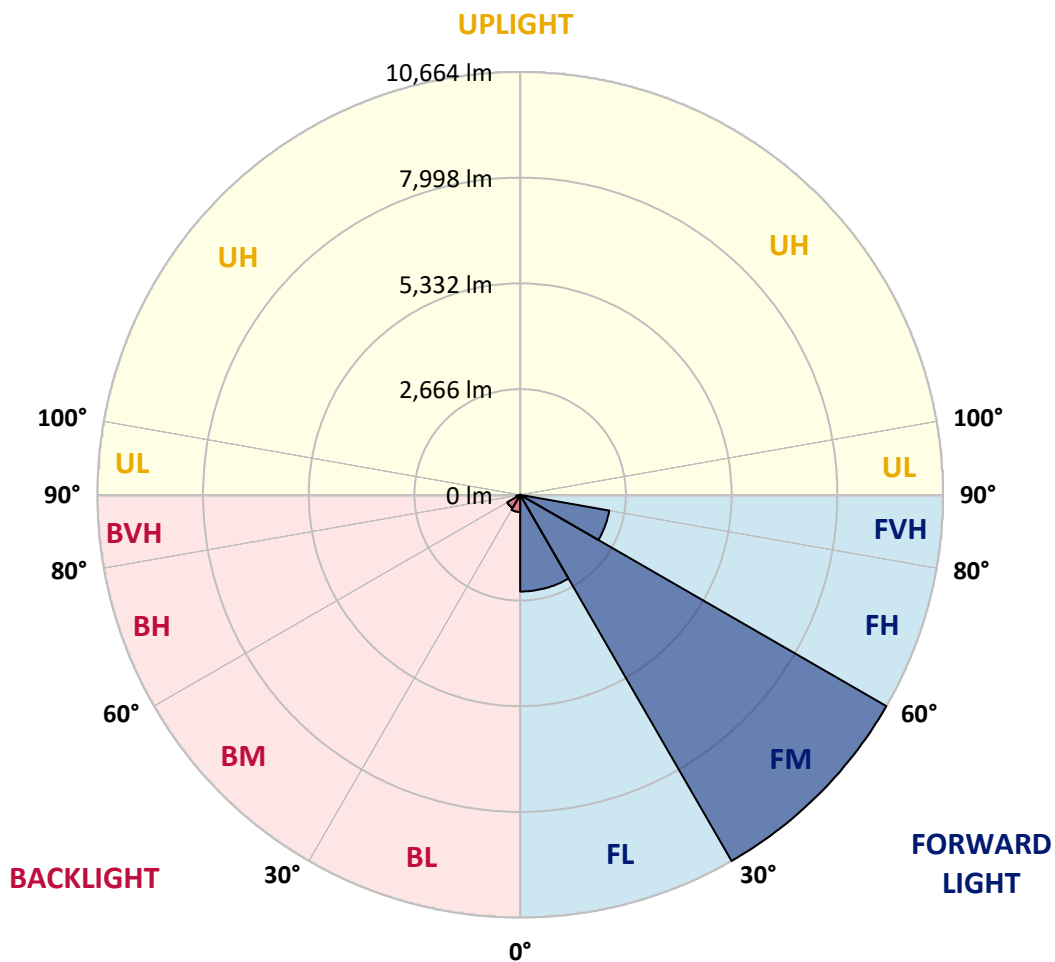
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2438.6	14.9			
FM	(30°-60°)	10664.4	65.3			
FH	(60°-80°)	2280.7	14.0			G2/5000
FVH	(80°-90°)	23.8	0.1			G1/100
BL	(0°-30°)	435.1	2.7	B1/500		
BM	(30°-60°)	378.3	2.3	B1/1000		
BH	(60°-80°)	97.7	0.6	B0/110		G0/110
BVH	(80°-90°)	0.5	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°	55°	59°	65°	75°	85°
0°	4593.7	4593.7	4593.7	4593.7	4593.7	4593.7	4593.7	4593.7	4593.7	4593.7	4593.7
2.5°	5435.4	5377.7	5360.3	5348.8	5295.8	5229.4	5138.8	5096.5	5009.8	4870.1	4698.7
5°	5933.3	5922.7	5884.2	5863.0	5806.2	5711.8	5567.4	5498.0	5360.3	5125.3	4818.1
7.5°	5715.7	5782.1	5835.1	5923.7	6035.4	6031.6	5910.2	5838.0	5683.9	5373.8	4951.0
10°	4874.9	4928.9	5015.6	5216.8	5627.1	5989.2	6131.7	6079.7	5956.5	5602.1	5079.1
12.5°	4710.3	4704.5	4719.9	4778.6	4993.4	5509.6	6094.2	6199.1	6174.1	5811.0	5200.5
15°	4797.9	4791.2	4789.2	4809.5	4861.5	5079.1	5812.0	6113.4	6307.0	6004.6	5303.5
17.5°	5043.5	5014.6	4999.2	4982.8	4967.4	5021.3	5473.0	5873.6	6327.2	6174.1	5389.2
20°	5464.3	5416.2	5359.4	5266.9	5180.2	5153.3	5330.5	5627.1	6255.0	6303.2	5445.1
22.5°	5993.0	5931.4	5833.2	5664.6	5488.4	5386.3	5400.8	5549.1	6147.1	6443.8	5471.1
25°	6587.2	6508.3	6377.3	6143.3	5884.2	5703.2	5608.8	5660.8	6098.0	6608.4	5500.9
27.5°	7223.8	7136.2	6964.8	6646.0	6352.3	6107.7	5915.0	5908.3	6181.8	6824.2	5549.1
30°	7854.6	7841.1	7617.7	7280.6	6891.6	6594.0	6316.6	6281.0	6415.8	7122.7	5644.4
32.5°	8696.3	8595.2	8321.7	7975.0	7526.2	7168.9	6840.5	6757.7	6775.0	7470.4	5791.8
35°	9757.6	9646.9	9261.6	8783.0	8281.3	7859.4	7496.4	7383.7	7341.3	8039.5	6040.2
37.5°	10443.3	10441.4	10199.6	9712.3	9174.0	8708.8	8314.0	8182.1	8096.3	8727.1	6425.5
40°	10461.6	10506.9	10538.6	10533.8	10150.5	9722.0	9371.4	9208.7	9009.3	9645.9	6923.4
42.5°	9900.1	10016.7	10296.9	10772.7	10999.9	10829.5	10533.8	10374.0	10077.3	10629.2	7530.1
45°	9141.3	9222.1	9712.3	10588.7	11460.3	11927.4	11702.0	11416.0	11025.0	11654.8	8074.2
47.5°	8801.3	8815.7	9132.6	10094.7	11494.9	12826.8	12963.6	12498.4	11885.9	12481.1	8499.9
50°	7785.3	7811.3	8248.5	9238.5	11088.5	13251.5	14231.0	13789.9	12824.9	13117.7	8654.9
52.5°	5867.9	5904.4	6459.2	7831.5	9971.4	13070.5	15138.2	15031.3	13853.4	13428.7	8663.6
55°	3462.2	3510.3	4040.0	5271.7	7843.1	11918.7	15205.6	15598.5	14665.3	13612.7	8650.1
57.5°	1617.0	1650.7	1954.0	2715.8	4877.8	9419.6	14190.5	15209.4	15113.1	13710.0	8745.4
60°	859.0	868.7	941.9	1175.9	2204.4	5972.8	12209.5	13734.0	14704.8	13844.8	8862.0
62.5°	656.8	659.7	655.8	683.8	926.5	2651.3	9228.9	11290.8	13060.9	13743.7	8732.9
65°	569.2	574.0	547.0	540.3	594.2	945.7	5482.6	8048.2	10263.2	12379.0	7853.7
67.5°	510.4	512.3	479.6	451.7	461.3	511.4	2163.0	4405.9	6793.3	9073.8	5692.6
70°	470.0	468.0	432.4	388.1	375.6	349.6	687.6	1615.0	3246.4	4601.4	2647.4
72.5°	416.0	417.0	399.7	341.9	312.0	244.6	318.8	470.9	968.8	1253.9	620.2
75°	368.8	364.0	342.8	306.2	257.1	160.8	157.9	209.9	298.5	296.6	133.9
77.5°	266.8	261.9	268.7	251.4	197.4	104.0	79.0	101.1	121.3	117.5	37.6
80°	195.5	192.6	173.3	209.0	174.3	71.3	49.1	53.9	62.6	53.0	11.6
82.5°	133.9	132.9	122.3	115.6	99.2	43.3	30.8	33.7	40.4	29.9	5.8
85°	21.2	24.1	88.6	70.3	58.7	19.3	21.2	23.1	27.0	16.4	1.9
87.5°	0.0	0.0	41.4	36.6	11.6	7.7	12.5	13.5	13.5	8.7	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°	4593.7	4593.7	4593.7	4593.7	4593.7	4593.7	4593.7	4593.7	4593.7	4593.7	4593.7
2.5°	4611.1	4514.8	4336.6	4152.7	3982.2	3779.0	3639.4	3534.4	3413.0	3380.3	3451.6
5°	4642.9	4460.8	4077.5	3660.5	3268.6	2834.3	2502.0	2239.1	2001.2	1920.3	1993.5
7.5°	4692.9	4422.3	3797.3	3110.6	2428.8	1750.8	1286.6	981.3	786.8	729.0	759.8
10°	4743.0	4366.5	3472.8	2459.6	1527.4	852.3	554.7	443.0	401.6	392.9	397.7
12.5°	4784.4	4291.3	3076.9	1748.9	816.7	456.5	363.1	344.8	339.0	339.0	340.9
15°	4809.5	4177.7	2607.9	1112.3	470.0	344.8	316.8	311.1	311.1	312.0	314.0
17.5°	4806.6	4033.2	2094.6	673.2	351.5	305.3	288.9	284.1	283.1	285.1	286.0
20°	4770.9	3844.5	1579.4	444.0	306.2	278.3	261.9	253.3	252.3	254.2	256.2
22.5°	4703.5	3611.4	1129.7	341.9	276.4	252.3	232.1	224.4	224.4	226.3	228.2
25°	4621.7	3326.4	772.4	289.9	249.4	224.4	205.1	198.4	200.3	205.1	206.1
27.5°	4519.6	3005.7	524.9	248.5	216.7	196.5	182.0	177.2	182.0	188.8	190.7
30°	4431.9	2671.5	374.6	214.8	183.9	169.5	160.8	160.8	167.6	180.1	183.0
32.5°	4364.5	2347.9	288.9	189.7	159.9	147.3	142.5	147.3	157.9	170.5	173.3
35°	4355.9	2081.1	244.6	169.5	142.5	130.0	128.1	136.8	147.3	157.0	158.9
37.5°	4422.3	1834.6	220.5	153.1	127.1	115.6	113.6	124.2	134.8	146.4	149.3
40°	4548.5	1641.0	203.2	137.7	114.6	102.1	98.2	105.9	120.4	135.8	139.6
42.5°	4712.2	1481.2	183.9	122.3	102.1	84.7	79.9	88.6	104.0	120.4	125.2
45°	4868.2	1343.5	162.8	105.0	85.7	65.5	63.6	75.1	82.8	99.2	103.0
47.5°	4953.9	1222.1	144.5	85.7	66.5	53.0	53.0	55.9	63.6	82.8	86.7
50°	4925.0	1124.8	125.2	63.6	46.2	40.4	40.4	39.5	51.0	66.5	69.3
52.5°	4867.2	1069.0	107.9	49.1	31.8	28.9	26.0	28.9	35.6	42.4	43.3
55°	4858.6	1059.4	90.5	39.5	22.2	19.3	14.4	14.4	14.4	13.5	11.6
57.5°	4926.0	1074.8	76.1	31.8	16.4	12.5	7.7	0.0	0.0	0.0	0.0
60°	4995.3	1091.1	65.5	22.2	11.6	6.7	1.0	0.0	0.0	0.0	0.0
62.5°	4879.8	1054.5	54.9	13.5	8.7	2.9	0.0	0.0	0.0	0.0	0.0
65°	4286.5	897.6	43.3	9.6	5.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3049.0	600.9	28.9	5.8	1.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	1391.6	251.4	18.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	297.6	78.0	12.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	60.7	56.8	4.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.3	89.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.6	64.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.9	9.6	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)