

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: P191722

Luminaire Tested: **GAN-AF-04-LED-U-AFL-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191722
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-7050-800-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 5000K, 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: 15881 lumens
Efficiency: N/A
Efficacy: 92.9 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): 171
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

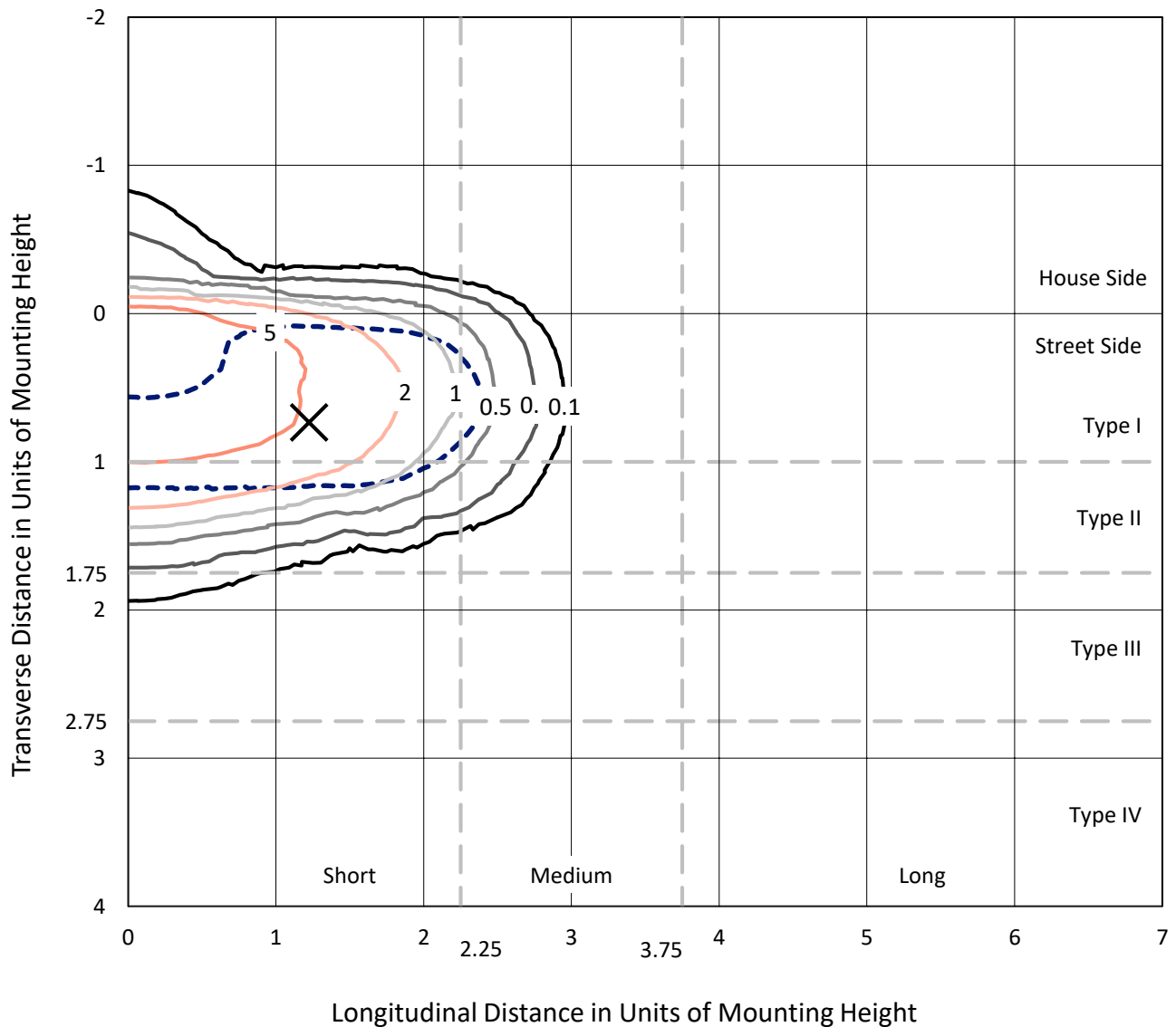


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

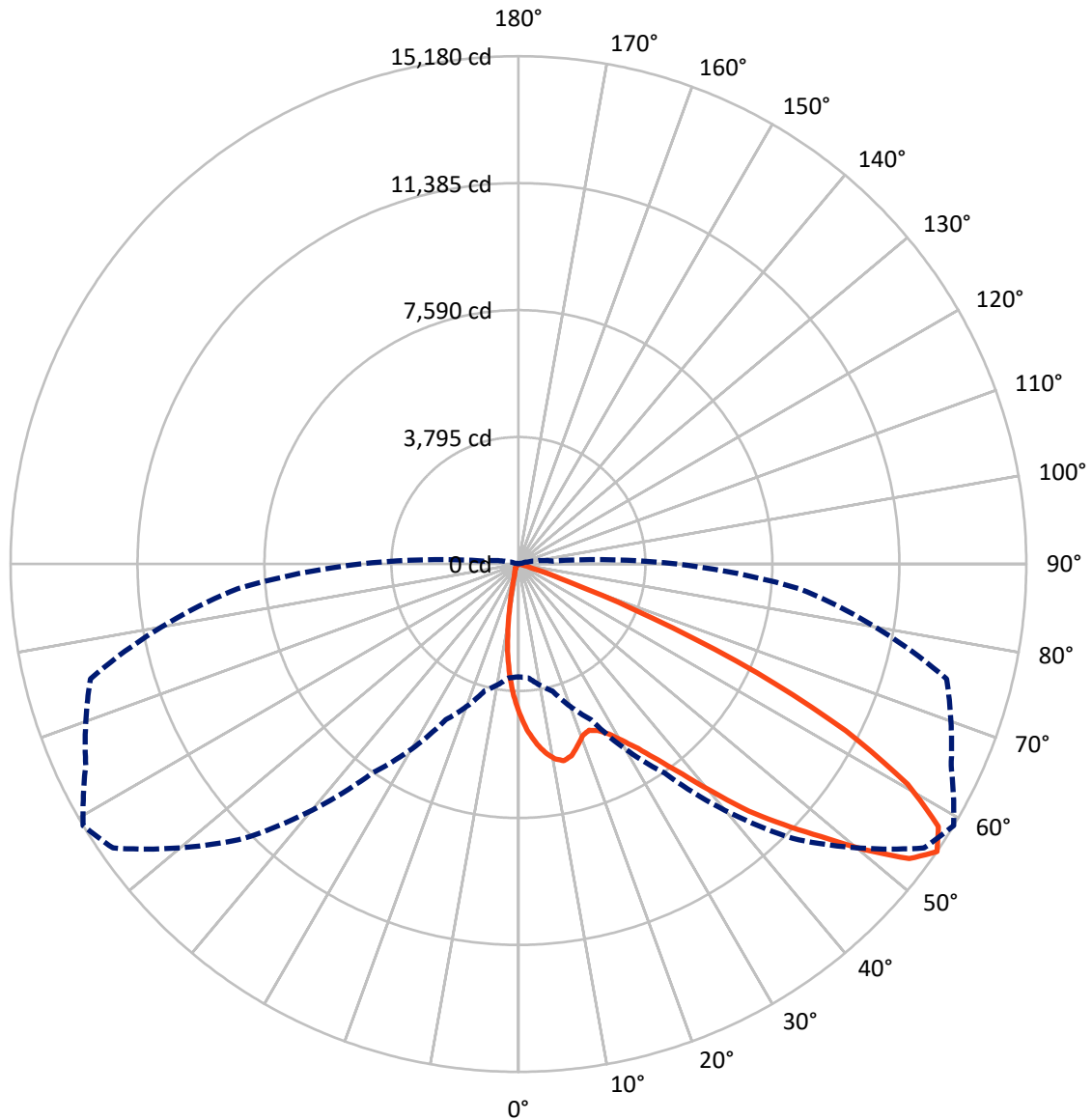


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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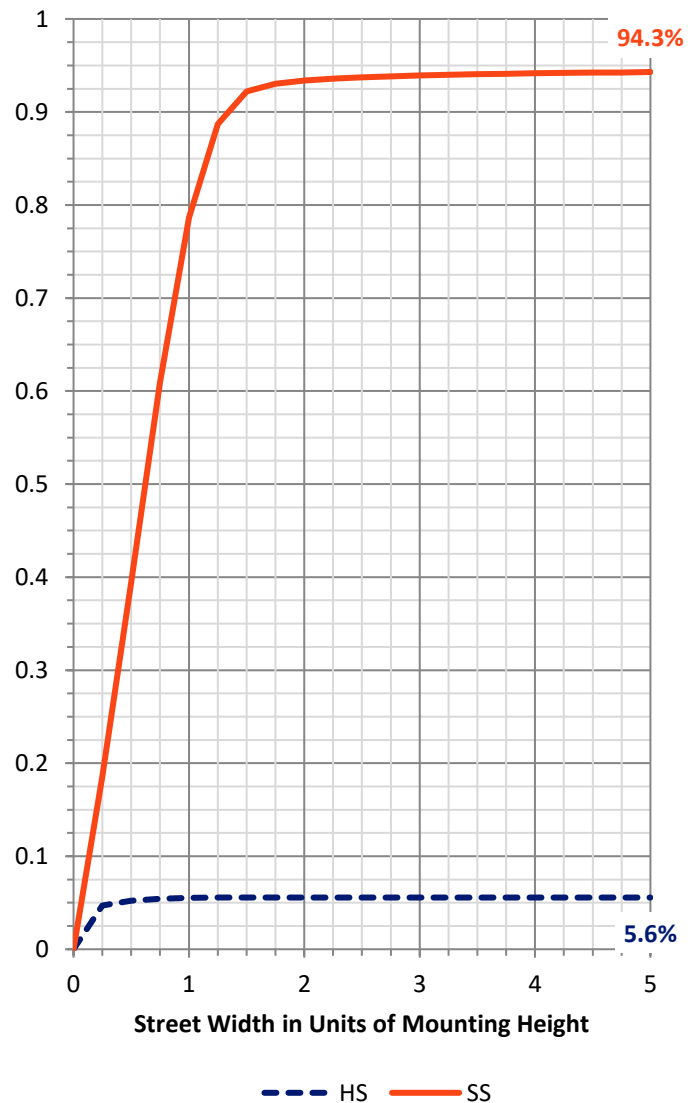
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	887.0	0.0	887.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	14994.0	0.0	14994.0
	% Fixture	94.4	0.0	94.4
Total	Lumens	15881.0	0.0	15881.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	374.4	2.4
10°-20°	896.5	5.6
20°-30°	1525.6	9.6
30°-40°	2623.6	16.5
40°-50°	4050.6	25.5
50°-60°	4072.1	25.6
60°-70°	2088.2	13.1
70°-80°	226.3	1.4
80°-90°	23.7	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°	15881.0	100.0
0°-180°	15881.0	100.0

Coefficient of Utilization



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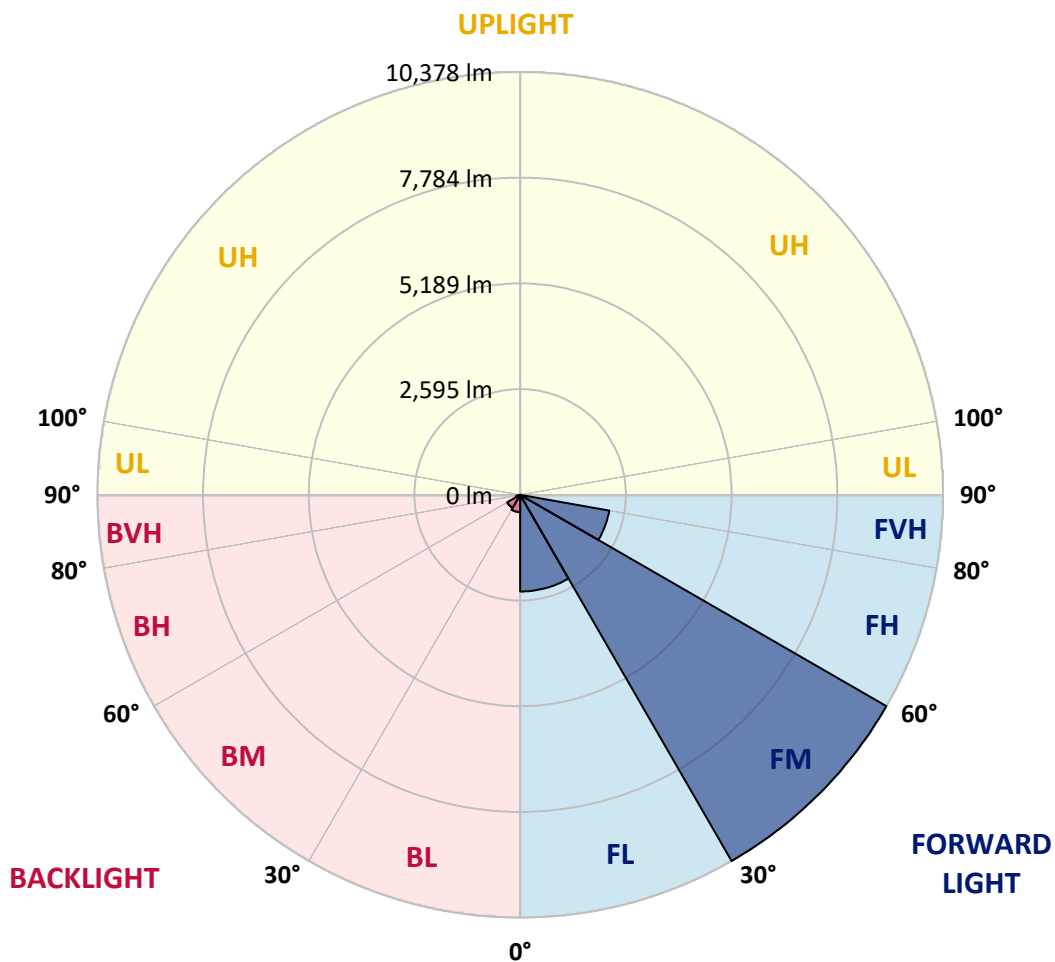
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2373.1	14.9			
FM	(30°-60°)	10378.2	65.3			
FH	(60°-80°)	2219.5	14.0			G2/5000
FVH	(80°-90°)	23.2	0.1			G1/100
BL	(0°-30°)	423.4	2.7	B1/500		
BM	(30°-60°)	368.1	2.3	B1/1000		
BH	(60°-80°)	95.0	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°	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4
2.5°	5289.6	5233.3	5216.5	5205.2	5153.7	5089.0	5000.9	4959.7	4875.3	4739.4	4572.6
5°	5774.1	5763.8	5726.3	5705.7	5650.4	5558.5	5418.0	5350.5	5216.5	4987.8	4688.8
7.5°	5562.3	5626.9	5678.5	5764.7	5873.4	5869.7	5751.6	5681.3	5531.4	5229.6	4818.1
10°	4744.1	4796.6	4880.9	5076.8	5476.1	5828.4	5967.2	5916.5	5796.6	5451.7	4942.8
12.5°	4583.8	4578.2	4593.2	4650.4	4859.4	5361.7	5930.6	6032.8	6008.4	5655.1	5060.9
15°	4669.1	4662.6	4660.7	4680.4	4731.0	4942.8	5656.0	5949.3	6137.7	5843.4	5161.2
17.5°	4908.1	4880.0	4865.0	4849.1	4834.1	4886.6	5326.1	5716.0	6157.4	6008.4	5244.6
20°	5317.7	5270.8	5215.5	5125.5	5041.2	5015.0	5187.4	5476.1	6087.1	6134.0	5298.9
22.5°	5832.2	5772.2	5676.6	5512.6	5341.1	5241.8	5255.8	5400.1	5982.1	6270.8	5324.2
25°	6410.4	6333.6	6206.1	5978.4	5726.3	5550.1	5458.3	5508.9	5934.4	6431.1	5353.3
27.5°	7029.9	6944.7	6777.8	6467.6	6181.8	5943.7	5756.3	5749.7	6015.9	6641.0	5400.1
30°	7643.8	7630.7	7413.3	7085.2	6706.6	6417.0	6147.1	6112.4	6243.6	6931.5	5492.9
32.5°	8462.9	8364.5	8098.3	7761.0	7324.2	6976.5	6656.9	6576.3	6593.2	7269.9	5636.3
35°	9495.7	9387.9	9013.1	8547.3	8059.0	7648.5	7295.2	7185.5	7144.3	7823.7	5878.1
37.5°	10163.0	10161.1	9925.9	9451.7	8927.8	8475.1	8090.8	7962.5	7879.0	8492.9	6253.0
40°	10180.8	10224.9	10255.8	10251.1	9878.1	9461.0	9119.9	8961.5	8767.5	9387.0	6737.5
42.5°	9634.4	9747.8	10020.5	10483.5	10704.7	10538.8	10251.1	10095.5	9806.9	10343.9	7328.0
45°	8895.9	8974.6	9451.7	10304.5	11152.7	11607.2	11387.9	11109.6	10729.1	11342.0	7857.5
47.5°	8565.1	8579.1	8887.5	9823.7	11186.4	12482.6	12615.6	12163.0	11566.9	12146.1	8271.7
50°	7576.3	7601.6	8027.1	8990.6	10790.9	12895.9	13849.0	13419.8	12480.7	12765.6	8422.6
52.5°	5710.4	5746.0	6285.8	7621.3	9703.8	12719.7	14731.8	14627.8	13481.6	13068.3	8431.1
55°	3369.2	3416.1	3931.6	5130.2	7632.6	11598.8	14797.5	15179.8	14271.7	13247.3	8417.9
57.5°	1573.6	1606.4	1901.6	2642.9	4746.9	9166.8	13809.6	14801.2	14707.5	13342.0	8510.7
60°	836.0	845.4	916.6	1144.3	2145.3	5812.5	11881.8	13365.4	14310.1	13473.2	8624.1
62.5°	639.2	642.0	638.2	665.4	901.6	2580.1	8981.2	10987.7	12710.3	13374.8	8498.5
65°	553.9	558.6	532.3	525.8	578.3	920.3	5335.5	7832.2	9987.7	12046.8	7642.9
67.5°	496.7	498.6	466.7	439.5	448.9	497.7	2105.0	4287.7	6611.0	8830.3	5539.8
70°	457.4	455.5	420.8	377.7	365.5	340.2	669.2	1571.7	3159.3	4477.9	2576.4
72.5°	404.9	405.8	388.9	332.7	303.7	238.0	310.2	458.3	942.8	1220.2	603.6
75°	358.9	354.3	333.6	298.0	250.2	156.5	153.7	204.3	290.5	288.7	130.3
77.5°	259.6	254.9	261.5	244.6	192.1	101.2	76.9	98.4	118.1	114.3	36.6
80°	190.3	187.4	168.7	203.4	169.6	69.4	47.8	52.5	60.9	51.5	11.2
82.5°	130.3	129.3	119.0	112.5	96.5	42.2	30.0	32.8	39.4	29.1	5.6
85°	20.6	23.4	86.2	68.4	57.2	18.7	20.6	22.5	26.2	15.9	1.9
87.5°	0.0	0.0	40.3	35.6	11.2	7.5	12.2	13.1	13.1	8.4	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°	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4	4470.4
2.5°	4487.3	4393.6	4220.2	4041.2	3875.3	3677.6	3541.7	3439.5	3321.4	3289.6	3358.9
5°	4518.2	4341.1	3968.1	3562.3	3180.9	2758.2	2434.8	2179.0	1947.5	1868.8	1940.0
7.5°	4567.0	4303.6	3695.4	3027.2	2363.6	1703.8	1252.1	955.0	765.7	709.5	739.5
10°	4615.7	4249.3	3379.5	2393.6	1486.4	829.4	539.8	431.1	390.8	382.4	387.1
12.5°	4656.0	4176.2	2994.4	1702.0	794.7	444.2	353.3	335.5	329.9	329.9	331.8
15°	4680.4	4065.6	2537.9	1082.5	457.4	335.5	308.3	302.7	302.7	303.7	305.5
17.5°	4677.6	3925.0	2038.4	655.1	342.1	297.1	281.2	276.5	275.5	277.4	278.3
20°	4642.9	3741.3	1537.0	432.0	298.0	270.9	254.9	246.5	245.5	247.4	249.3
22.5°	4577.3	3514.5	1099.3	332.7	269.0	245.5	225.9	218.4	218.4	220.2	222.1
25°	4497.6	3237.1	751.6	282.1	242.7	218.4	199.6	193.1	194.9	199.6	200.6
27.5°	4398.3	2925.0	510.8	241.8	210.9	191.2	177.1	172.4	177.1	183.7	185.6
30°	4313.0	2599.8	364.6	209.0	179.0	164.9	156.5	156.5	163.1	175.3	178.1
32.5°	4247.4	2284.9	281.2	184.6	155.6	143.4	138.7	143.4	153.7	165.9	168.7
35°	4239.0	2025.3	238.0	164.9	138.7	126.5	124.6	133.1	143.4	152.8	154.6
37.5°	4303.6	1785.4	214.6	149.0	123.7	112.5	110.6	120.9	131.2	142.5	145.3
40°	4426.4	1597.0	197.7	134.0	111.5	99.3	95.6	103.1	117.2	132.1	135.9
42.5°	4585.7	1441.4	179.0	119.0	99.3	82.5	77.8	86.2	101.2	117.2	121.8
45°	4737.5	1307.4	158.4	102.2	83.4	63.7	61.9	73.1	80.6	96.5	100.3
47.5°	4821.0	1189.3	140.6	83.4	64.7	51.5	51.5	54.4	61.9	80.6	84.3
50°	4792.8	1094.6	121.8	61.9	45.0	39.4	39.4	38.4	49.7	64.7	67.5
52.5°	4736.6	1040.3	105.0	47.8	30.9	28.1	25.3	28.1	34.7	41.2	42.2
55°	4728.2	1030.9	88.1	38.4	21.6	18.7	14.1	14.1	14.1	13.1	11.2
57.5°	4793.8	1045.9	74.0	30.9	15.9	12.2	7.5	0.0	0.0	0.0	0.0
60°	4861.3	1061.8	63.7	21.6	11.2	6.6	0.9	0.0	0.0	0.0	0.0
62.5°	4748.8	1026.2	53.4	13.1	8.4	2.8	0.0	0.0	0.0	0.0	0.0
65°	4171.5	873.5	42.2	9.4	5.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2967.2	584.8	28.1	5.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	1354.3	244.6	17.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	289.6	75.9	12.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	59.0	55.3	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	18.7	87.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.2	62.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.9	9.4	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)