

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: P191713

Luminaire Tested: **GAN-AF-05-LED-U-AFL-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191713
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-05-LED-U-AFL-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 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: 16046 lumens
Efficiency: N/A
Efficacy: 99.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 162
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

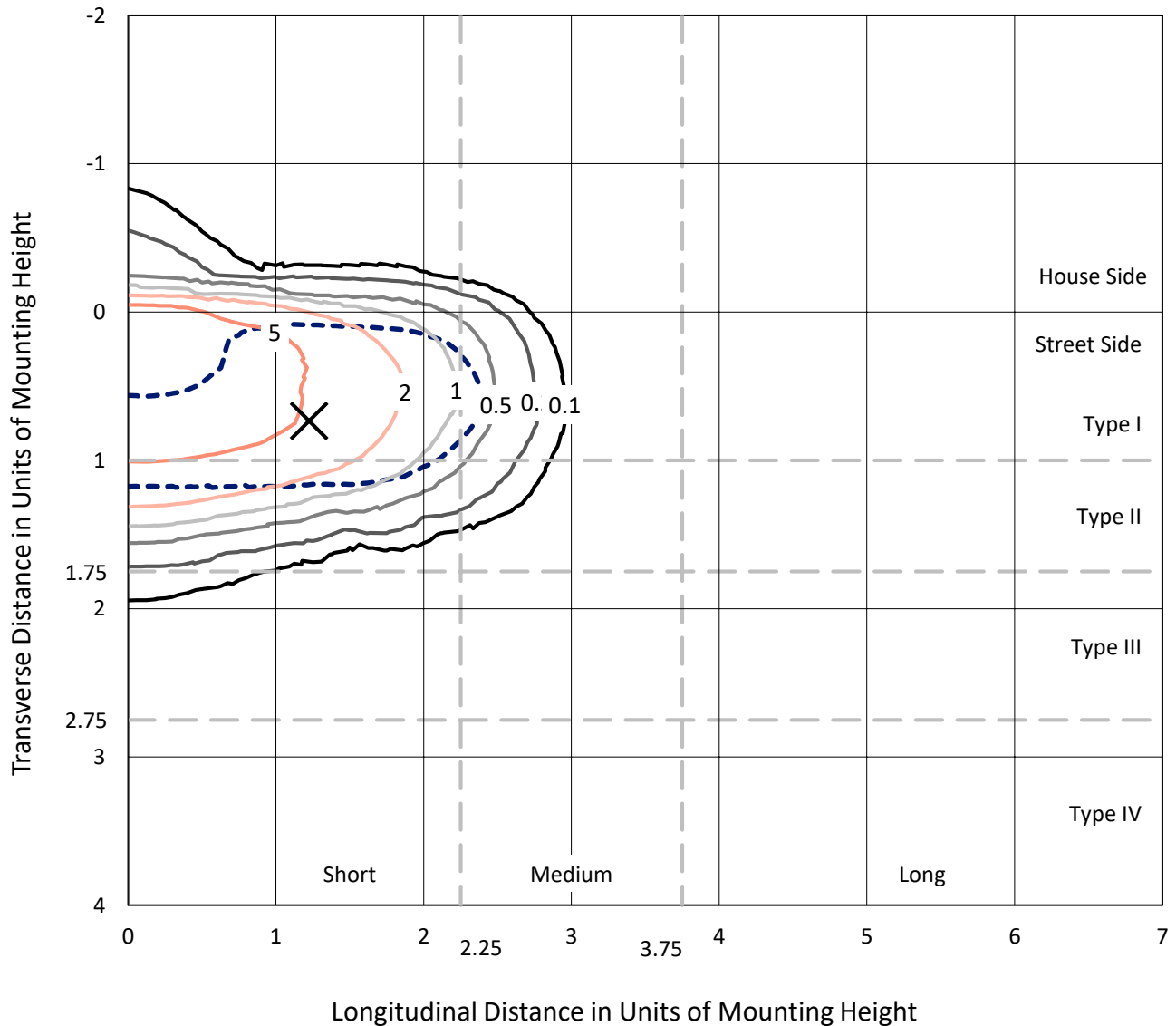


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

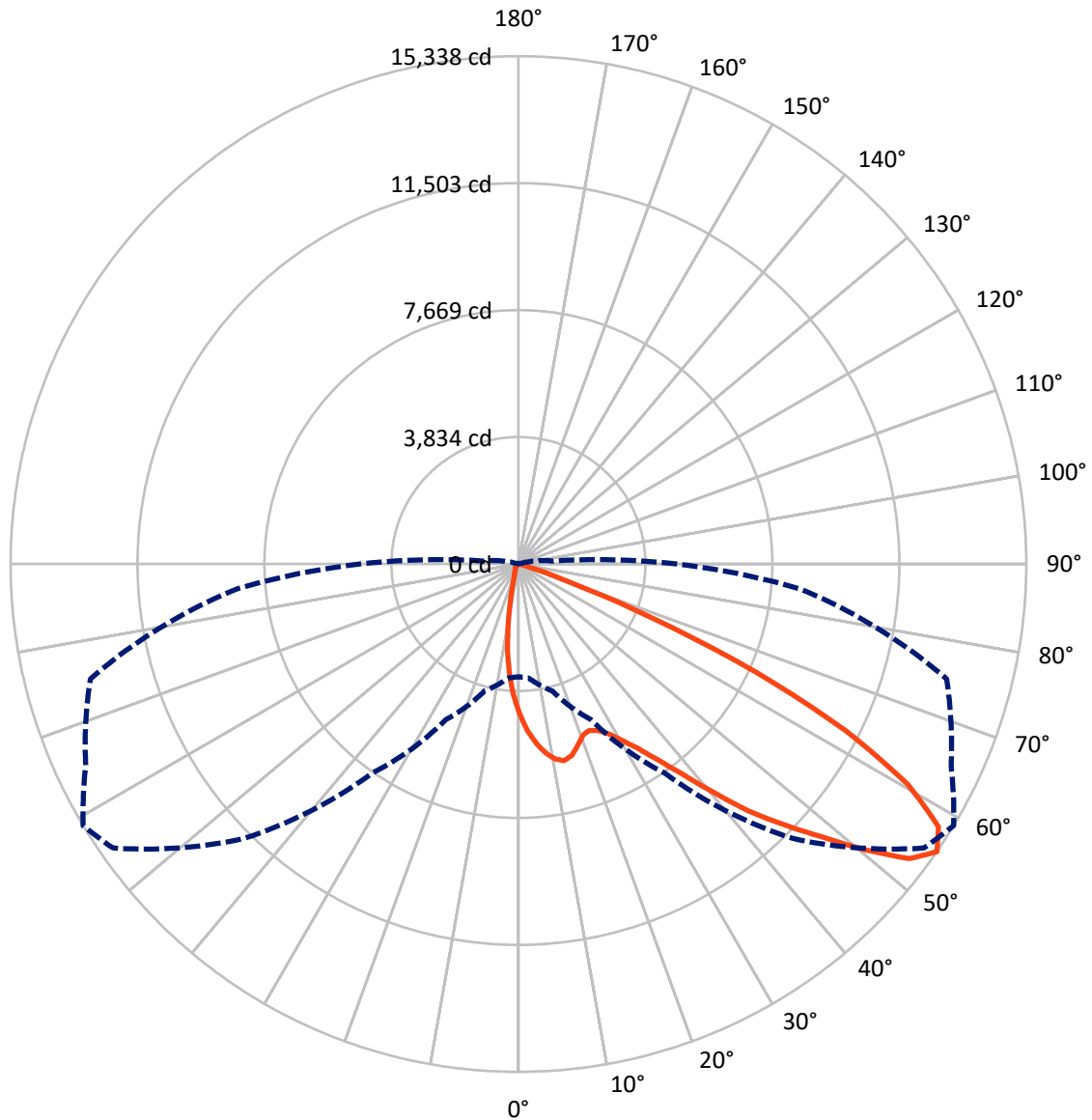


Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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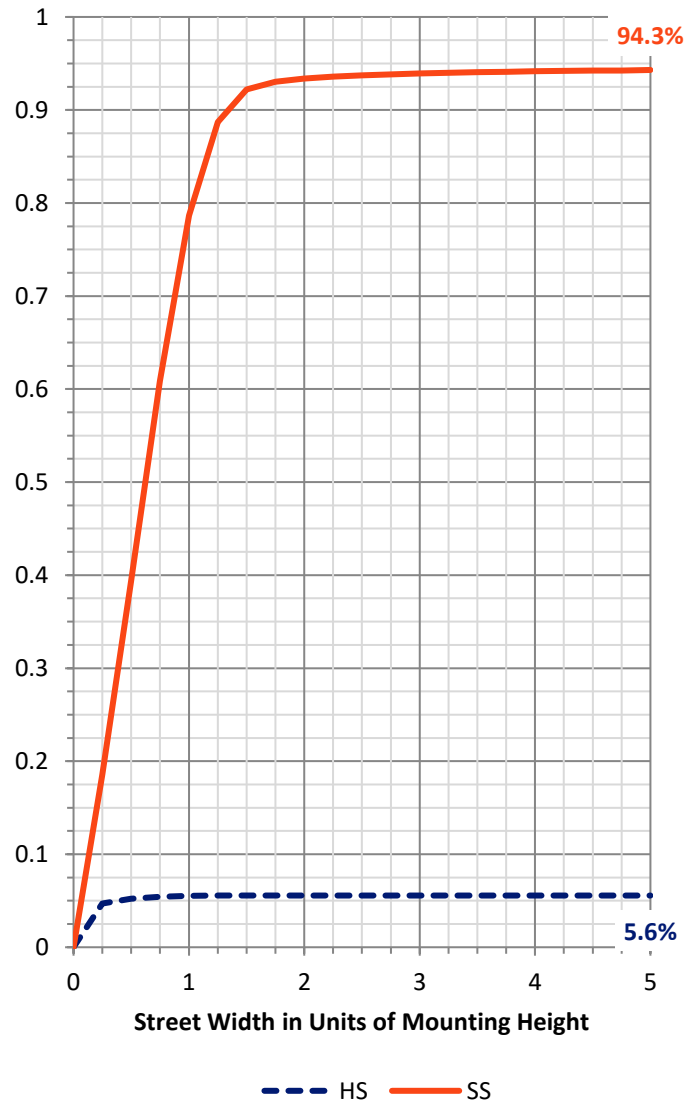
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	896.3	0.0	896.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	15149.7	0.0	15149.7
	% Fixture	94.4	0.0	94.4
Total	Lumens	16046.0	0.0	16046.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	378.3	2.4
10°-20°	905.8	5.6
20°-30°	1541.4	9.6
30°-40°	2650.9	16.5
40°-50°	4092.7	25.5
50°-60°	4114.4	25.6
60°-70°	2109.9	13.1
70°-80°	228.7	1.4
80°-90°	23.9	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°	16046.0	100.0
0°-180°	16046.0	100.0

Coefficient of Utilization



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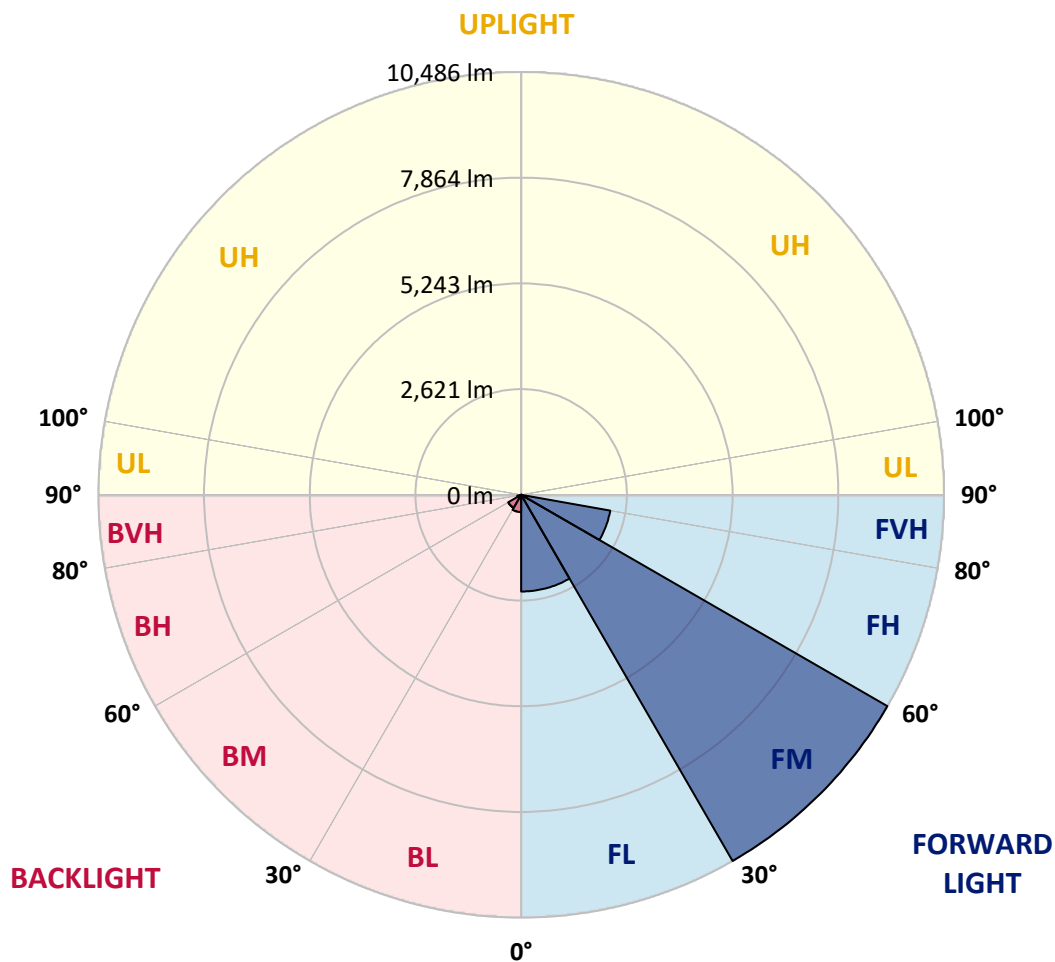
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2397.8	14.9			
FM	(30°-60°)	10486.0	65.3			
FH	(60°-80°)	2242.5	14.0			G2/5000
FVH	(80°-90°)	23.4	0.1			G1/100
BL	(0°-30°)	427.8	2.7	B1/500		
BM	(30°-60°)	372.0	2.3	B1/1000		
BH	(60°-80°)	96.0	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°	4516.9	4516.9	4516.9	4516.9	4516.9	4516.9	4516.9	4516.9	4516.9	4516.9	4516.9
2.5°	5344.5	5287.7	5270.7	5259.3	5207.2	5141.9	5052.9	5011.2	4926.0	4788.7	4620.1
5°	5834.1	5823.7	5785.8	5765.0	5709.1	5616.3	5474.2	5406.1	5270.7	5039.6	4737.5
7.5°	5620.1	5685.4	5737.5	5824.6	5934.5	5930.7	5811.4	5740.3	5588.8	5283.9	4868.2
10°	4793.4	4846.4	4931.6	5129.6	5533.0	5889.0	6029.1	5978.0	5856.8	5508.3	4994.1
12.5°	4631.5	4625.8	4640.9	4698.7	4909.9	5417.4	5992.2	6095.4	6070.8	5713.8	5113.5
15°	4717.6	4711.0	4709.1	4729.0	4780.1	4994.1	5714.8	6011.2	6201.5	5904.2	5214.8
17.5°	4959.1	4930.7	4915.6	4899.5	4884.3	4937.3	5381.4	5775.4	6221.4	6070.8	5299.1
20°	5372.9	5325.6	5269.7	5178.8	5093.6	5067.1	5241.3	5533.0	6150.4	6197.7	5354.0
22.5°	5892.8	5832.2	5735.6	5569.9	5396.6	5296.2	5310.4	5456.3	6044.3	6336.0	5379.6
25°	6477.1	6399.4	6270.6	6040.5	5785.8	5607.8	5515.0	5566.1	5996.0	6497.9	5408.9
27.5°	7103.0	7016.8	6848.3	6534.8	6246.0	6005.5	5816.1	5809.5	6078.4	6710.0	5456.3
30°	7723.2	7710.0	7490.3	7158.8	6776.3	6483.7	6211.0	6175.9	6308.5	7003.5	5550.0
32.5°	8550.8	8451.4	8182.5	7841.6	7400.3	7049.0	6726.1	6644.7	6661.7	7345.4	5694.9
35°	9594.4	9485.5	9106.7	8636.1	8142.7	7728.0	7371.0	7260.2	7218.5	7905.0	5939.2
37.5°	10268.6	10266.7	10029.0	9549.9	9020.5	8563.2	8174.9	8045.2	7960.9	8581.1	6318.0
40°	10286.6	10331.1	10362.3	10357.6	9980.7	9559.3	9214.6	9054.6	8858.6	9484.5	6807.5
42.5°	9734.5	9849.1	10124.7	10592.4	10815.9	10648.3	10357.6	10200.4	9908.8	10451.3	7404.1
45°	8988.3	9067.9	9549.9	10411.6	11268.6	11727.8	11506.2	11225.0	10840.5	11459.8	7939.1
47.5°	8654.1	8668.3	8979.8	9925.8	11302.6	12612.3	12746.7	12289.4	11687.1	12272.3	8357.7
50°	7655.0	7680.6	8110.5	9084.0	10903.0	13029.9	13992.9	13559.2	12610.4	12898.2	8510.1
52.5°	5769.7	5805.7	6351.1	7700.5	9804.6	12851.8	14884.9	14779.8	13621.7	13204.1	8518.6
55°	3404.2	3451.6	3972.4	5183.5	7711.9	11719.3	14951.2	15337.5	14420.0	13385.0	8505.4
57.5°	1589.9	1623.1	1921.3	2670.4	4796.2	9262.0	13953.1	14955.0	14860.3	13480.6	8599.1
60°	844.7	854.1	926.1	1156.2	2167.5	5872.9	12005.3	13504.3	14458.8	13613.2	8713.7
62.5°	645.8	648.7	644.9	672.3	911.0	2606.9	9074.5	11101.9	12842.4	13513.7	8586.8
65°	559.6	564.4	537.9	531.2	584.3	929.9	5390.9	7913.6	10091.5	12171.9	7722.3
67.5°	501.9	503.8	471.6	444.1	453.6	502.8	2126.8	4332.2	6679.7	8922.0	5597.3
70°	462.1	460.2	425.2	381.6	369.3	343.7	676.1	1588.0	3192.1	4524.5	2603.1
72.5°	409.1	410.0	393.0	336.2	306.8	240.5	313.4	463.1	952.6	1232.9	609.8
75°	362.7	357.9	337.1	301.1	252.8	158.1	155.3	206.4	293.6	291.7	131.6
77.5°	262.3	257.6	264.2	247.2	194.1	102.3	77.6	99.4	119.3	115.5	36.9
80°	192.2	189.4	170.4	205.5	171.4	70.1	48.3	53.0	61.6	52.1	11.4
82.5°	131.6	130.7	120.3	113.6	97.5	42.6	30.3	33.1	39.8	29.4	5.7
85°	20.8	23.7	87.1	69.1	57.8	18.9	20.8	22.7	26.5	16.1	1.9
87.5°	0.0	0.0	40.7	36.0	11.4	7.6	12.3	13.3	13.3	8.5	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°	4516.9	4516.9	4516.9	4516.9	4516.9	4516.9	4516.9	4516.9	4516.9	4516.9	4516.9
2.5°	4533.9	4439.2	4264.1	4083.2	3915.6	3715.8	3578.5	3475.3	3355.9	3323.8	3393.8
5°	4565.2	4386.2	4009.3	3599.3	3213.9	2786.8	2460.1	2201.6	1967.7	1888.2	1960.2
7.5°	4614.4	4348.3	3733.8	3058.6	2388.2	1721.5	1265.1	964.9	773.6	716.8	747.1
10°	4663.7	4293.4	3414.7	2418.5	1501.8	838.0	545.4	435.6	394.9	386.4	391.1
12.5°	4704.4	4219.6	3025.5	1719.6	803.0	448.8	357.0	339.0	333.3	333.3	335.2
15°	4729.0	4107.8	2564.3	1093.7	462.1	339.0	311.5	305.9	305.9	306.8	308.7
17.5°	4726.2	3965.8	2059.6	661.9	345.6	300.2	284.1	279.3	278.4	280.3	281.2
20°	4691.1	3780.2	1553.0	436.5	301.1	273.7	257.6	249.0	248.1	250.0	251.9
22.5°	4624.8	3551.0	1110.8	336.2	271.8	248.1	228.2	220.6	220.6	222.5	224.4
25°	4544.4	3270.7	759.4	285.0	245.3	220.6	201.7	195.1	197.0	201.7	202.6
27.5°	4444.0	2955.4	516.1	244.3	213.1	193.2	179.0	174.2	179.0	185.6	187.5
30°	4357.8	2626.8	368.4	211.2	180.9	166.7	158.1	158.1	164.8	177.1	179.9
32.5°	4291.5	2308.6	284.1	186.5	157.2	144.9	140.1	144.9	155.3	167.6	170.4
35°	4283.0	2046.3	240.5	166.7	140.1	127.8	125.9	134.5	144.9	154.4	156.2
37.5°	4348.3	1803.9	216.8	150.6	125.0	113.6	111.7	122.2	132.6	143.9	146.8
40°	4472.4	1613.6	199.8	135.4	112.7	100.4	96.6	104.2	118.4	133.5	137.3
42.5°	4633.4	1456.4	180.9	120.3	100.4	83.3	78.6	87.1	102.3	118.4	123.1
45°	4786.8	1321.0	160.0	103.2	84.3	64.4	62.5	73.9	81.4	97.5	101.3
47.5°	4871.0	1201.7	142.0	84.3	65.3	52.1	52.1	54.9	62.5	81.4	85.2
50°	4842.6	1106.0	123.1	62.5	45.5	39.8	39.8	38.8	50.2	65.3	68.2
52.5°	4785.8	1051.1	106.1	48.3	31.2	28.4	25.6	28.4	35.0	41.7	42.6
55°	4777.3	1041.6	89.0	38.8	21.8	18.9	14.2	14.2	14.2	13.3	11.4
57.5°	4843.6	1056.8	74.8	31.2	16.1	12.3	7.6	0.0	0.0	0.0	0.0
60°	4911.8	1072.9	64.4	21.8	11.4	6.6	0.9	0.0	0.0	0.0	0.0
62.5°	4798.1	1036.9	54.0	13.3	8.5	2.8	0.0	0.0	0.0	0.0	0.0
65°	4214.8	882.5	42.6	9.5	5.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2998.0	590.9	28.4	5.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	1368.3	247.2	18.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	292.6	76.7	12.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	59.7	55.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	18.9	88.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	11.4	63.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.9	9.5	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)