

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: P191712

Luminaire Tested: **GAN-AF-04-LED-U-AFL-7050-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191712
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-7050-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 12951 lumens
Efficiency: N/A
Efficacy: 100.4 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): 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

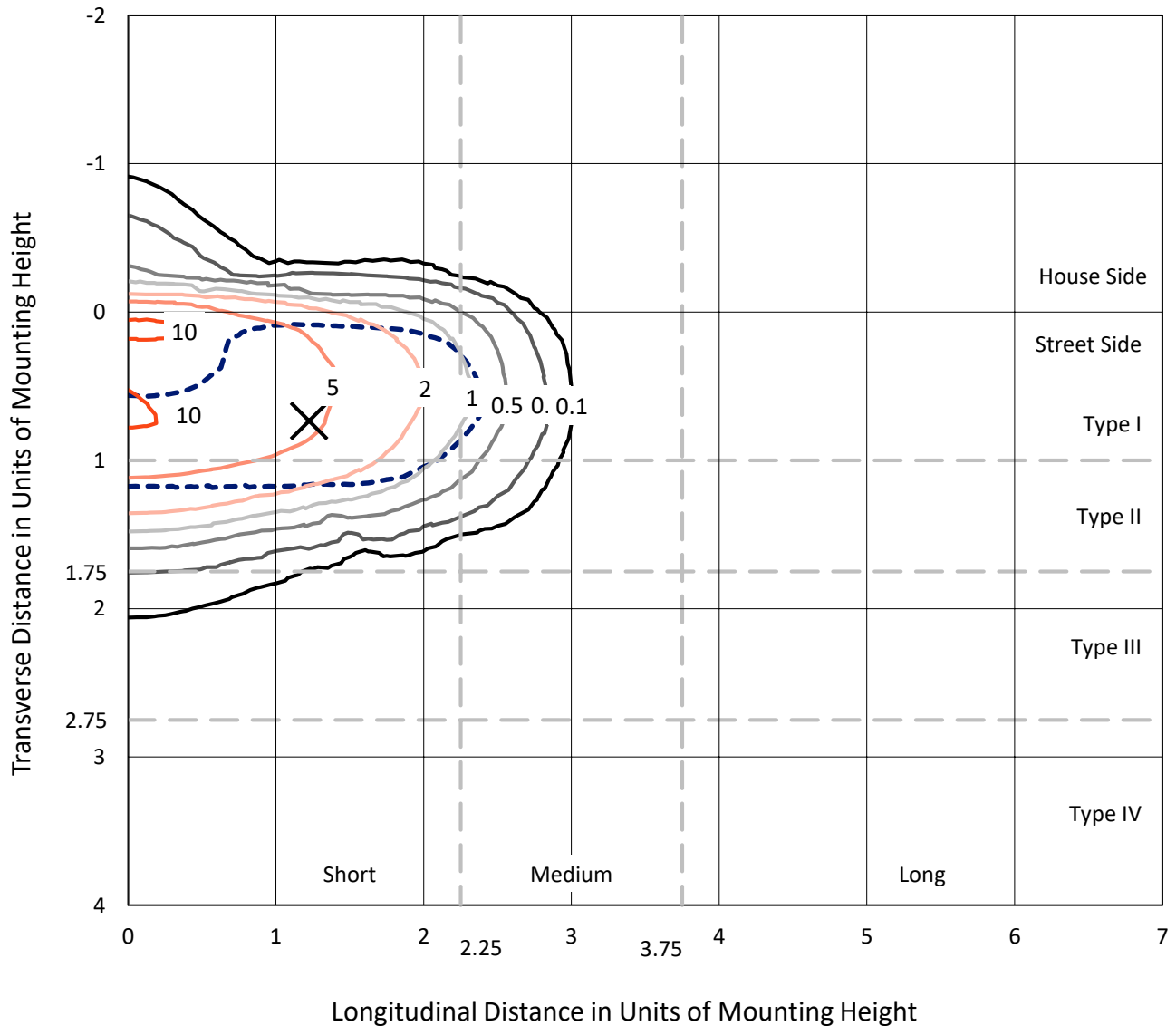


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

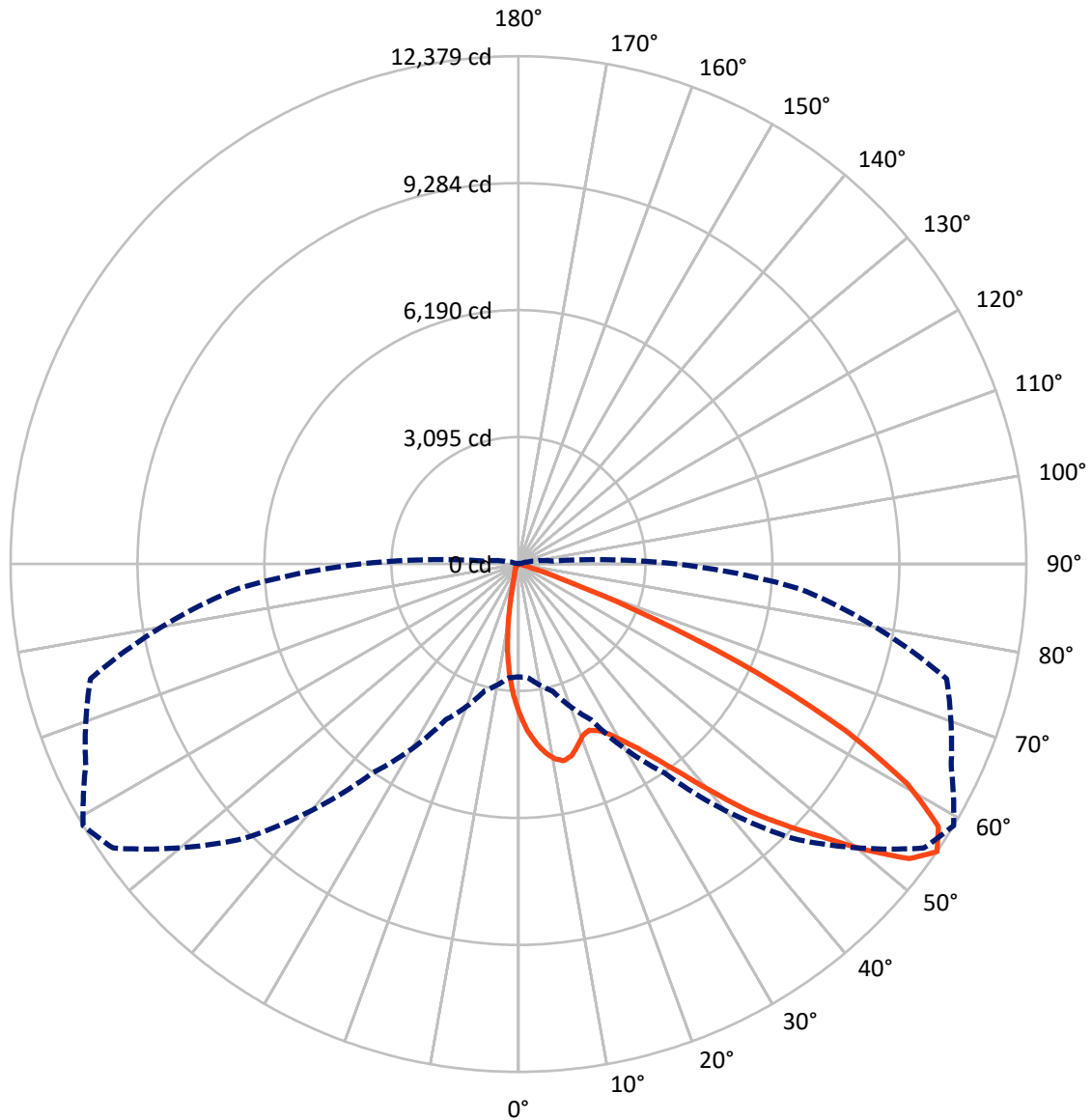


Based on 20 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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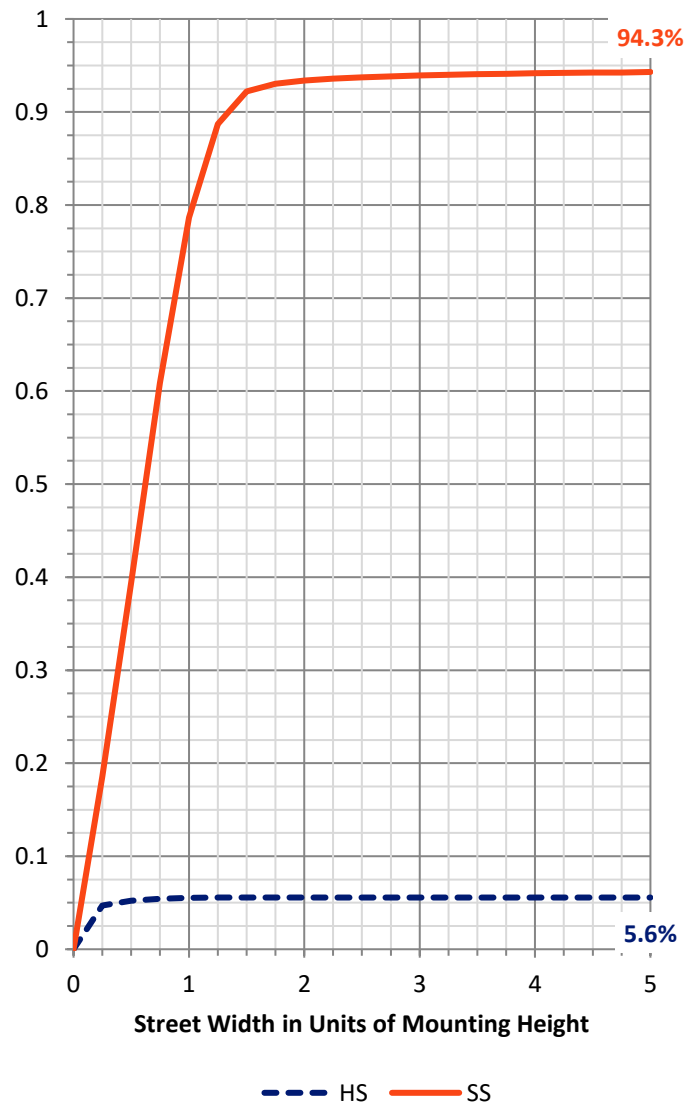
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	723.4	0.0	723.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	12227.6	0.0	12227.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	12951.0	0.0	12951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	305.4	2.4
10°-20°	731.1	5.6
20°-30°	1244.1	9.6
30°-40°	2139.6	16.5
40°-50°	3303.3	25.5
50°-60°	3320.8	25.6
60°-70°	1702.9	13.1
70°-80°	184.5	1.4
80°-90°	19.3	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°	12951.0	100.0
0°-180°	12951.0	100.0

Coefficient of Utilization



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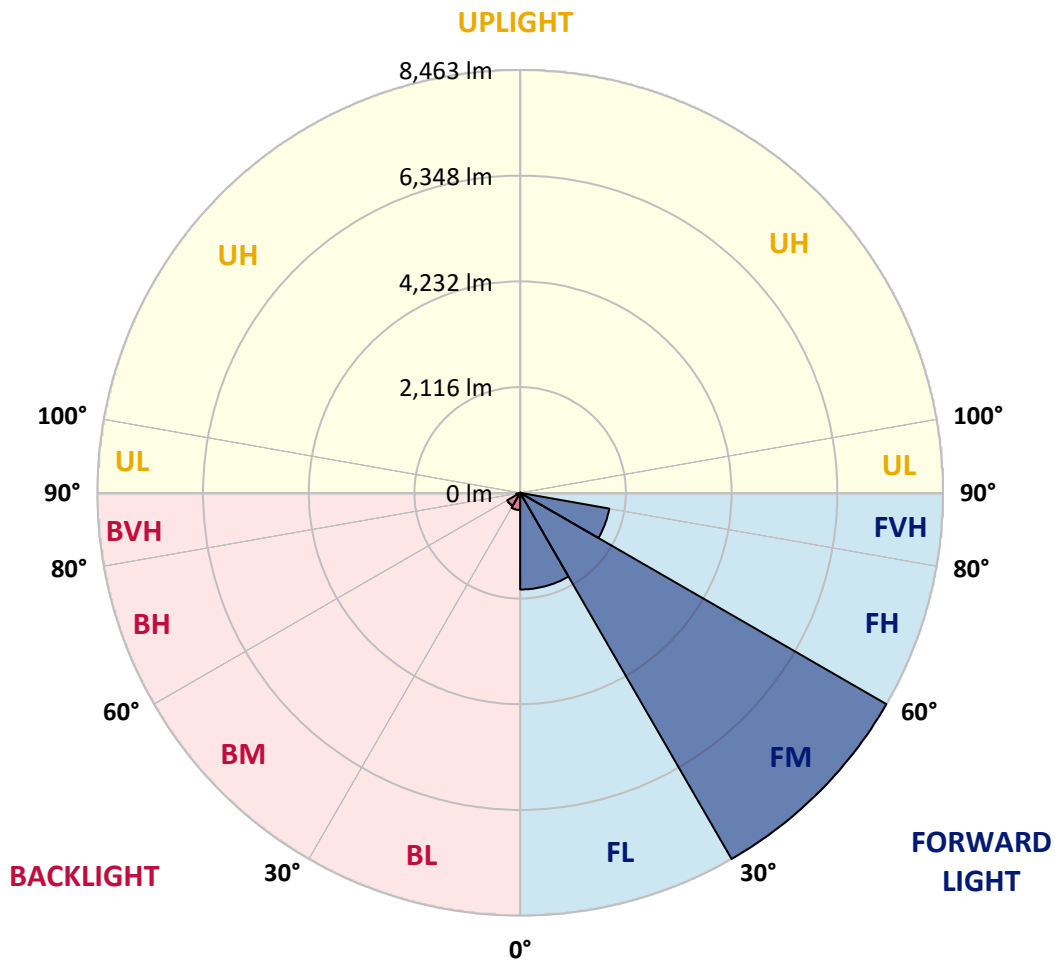
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1935.3	14.9			
FM (30°-60°)	8463.4	65.3			
FH (60°-80°)	1810.0	14.0			G2/5000
FVH (80°-90°)	18.9	0.1			G1/100
BL (0°-30°)	345.3	2.7	B1/500		
BM (30°-60°)	300.2	2.3	B1/1000		
BH (60°-80°)	77.5	0.6	B0/110		G0/110
BVH (80°-90°)	0.4	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°	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7
2.5°	4313.6	4267.8	4254.0	4244.9	4202.8	4150.1	4078.2	4044.6	3975.8	3865.0	3729.0
5°	4708.8	4700.4	4669.8	4653.0	4607.9	4533.0	4418.4	4363.3	4254.0	4067.5	3823.7
7.5°	4536.1	4588.8	4630.8	4701.1	4789.8	4786.7	4690.4	4633.1	4510.8	4264.7	3929.2
10°	3868.8	3911.6	3980.4	4140.2	4465.7	4753.1	4866.2	4825.0	4727.1	4445.9	4030.9
12.5°	3738.1	3733.6	3745.8	3792.4	3962.8	4372.5	4836.4	4919.7	4899.9	4611.7	4127.2
15°	3807.7	3802.3	3800.8	3816.9	3858.1	4030.9	4612.5	4851.7	5005.3	4765.3	4208.9
17.5°	4002.6	3979.7	3967.4	3954.4	3942.2	3985.0	4343.5	4661.4	5021.4	4899.9	4277.0
20°	4336.6	4298.4	4253.3	4179.9	4111.1	4089.7	4230.3	4465.7	4964.1	5002.3	4321.3
22.5°	4756.2	4707.3	4629.3	4495.5	4355.7	4274.7	4286.1	4403.8	4878.5	5113.9	4341.9
25°	5227.7	5165.1	5061.1	4875.4	4669.8	4526.1	4451.2	4492.5	4839.5	5244.6	4365.6
27.5°	5732.9	5663.4	5527.3	5274.4	5041.3	4847.1	4694.3	4688.9	4906.0	5415.8	4403.8
30°	6233.5	6222.8	6045.5	5778.0	5469.3	5233.1	5013.0	4984.7	5091.7	5652.7	4479.5
32.5°	6901.5	6821.3	6604.2	6329.1	5972.9	5689.4	5428.7	5363.0	5376.8	5928.6	4596.4
35°	7743.8	7655.9	7350.2	6970.3	6572.1	6237.4	5949.2	5859.8	5826.2	6380.3	4793.6
37.5°	8288.0	8286.4	8094.6	7707.9	7280.6	6911.5	6598.1	6493.4	6425.4	6926.0	5099.3
40°	8302.5	8338.4	8363.6	8359.8	8055.6	7715.5	7437.3	7308.1	7149.9	7655.1	5494.5
42.5°	7856.9	7949.4	8171.8	8549.3	8729.7	8594.4	8359.8	8232.9	7997.5	8435.5	5976.0
45°	7254.6	7318.8	7707.9	8403.4	9095.0	9465.7	9286.9	9059.9	8749.6	9249.4	6407.8
47.5°	6984.8	6996.3	7247.8	8011.3	9122.6	10179.6	10288.1	9918.9	9432.9	9905.2	6745.6
50°	6178.5	6199.2	6546.1	7331.8	8800.0	10516.6	11293.9	10943.9	10178.0	10410.4	6868.7
52.5°	4656.8	4685.9	5126.1	6215.2	7913.5	10372.9	12013.9	11929.0	10994.3	10657.2	6875.5
55°	2747.6	2785.8	3206.2	4183.7	6224.4	9458.8	12067.4	12379.2	11638.6	10803.2	6864.8
57.5°	1283.2	1310.0	1550.7	2155.3	3871.1	7475.5	11261.8	12070.4	11994.0	10880.4	6940.5
60°	681.7	689.4	747.5	933.2	1749.5	4740.1	9689.7	10899.5	11669.9	10987.4	7033.0
62.5°	521.2	523.5	520.5	542.6	735.2	2104.1	7324.2	8960.5	10365.3	10907.2	6930.6
65°	451.7	455.5	434.1	428.8	471.6	750.5	4351.1	6387.2	8145.0	9824.2	6232.8
67.5°	405.1	406.6	380.6	358.5	366.1	405.8	1716.6	3496.6	5391.3	7201.1	4517.7
70°	373.0	371.4	343.2	308.0	298.1	277.4	545.7	1281.7	2576.4	3651.8	2101.0
72.5°	330.2	330.9	317.2	271.3	247.6	194.1	253.0	373.7	768.9	995.1	492.2
75°	292.7	288.9	272.1	243.0	204.1	127.6	125.3	166.6	236.9	235.4	106.2
77.5°	211.7	207.9	213.2	199.5	156.7	82.5	62.7	80.3	96.3	93.2	29.8
80°	155.2	152.9	137.6	165.9	138.3	56.6	39.0	42.8	49.7	42.0	9.2
82.5°	106.2	105.5	97.1	91.7	78.7	34.4	24.5	26.8	32.1	23.7	4.6
85°	16.8	19.1	70.3	55.8	46.6	15.3	16.8	18.3	21.4	13.0	1.5
87.5°	0.0	0.0	32.9	29.0	9.2	6.1	9.9	10.7	10.7	6.9	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°	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7	3645.7
2.5°	3659.4	3583.0	3441.6	3295.6	3160.3	2999.1	2888.2	2804.9	2708.6	2682.7	2739.2
5°	3684.6	3540.2	3236.0	2905.1	2594.0	2249.3	1985.6	1777.0	1588.2	1524.0	1582.1
7.5°	3724.4	3509.6	3013.6	2468.7	1927.5	1389.5	1021.1	778.8	624.4	578.6	603.0
10°	3764.1	3465.3	2756.0	1952.0	1212.2	676.4	440.2	351.6	318.7	311.8	315.7
12.5°	3797.0	3405.7	2441.9	1387.9	648.1	362.3	288.1	273.6	269.0	269.0	270.6
15°	3816.9	3315.5	2069.7	882.8	373.0	273.6	251.5	246.9	246.9	247.6	249.2
17.5°	3814.6	3200.8	1662.3	534.2	279.0	242.3	229.3	225.5	224.7	226.2	227.0
20°	3786.3	3051.0	1253.4	352.3	243.0	220.9	207.9	201.0	200.2	201.8	203.3
22.5°	3732.8	2866.1	896.5	271.3	219.4	200.2	184.2	178.1	178.1	179.6	181.1
25°	3667.8	2639.9	613.0	230.1	198.0	178.1	162.8	157.4	159.0	162.8	163.6
27.5°	3586.8	2385.3	416.5	197.2	172.0	155.9	144.5	140.6	144.5	149.8	151.3
30°	3517.3	2120.1	297.3	170.4	146.0	134.5	127.6	127.6	133.0	142.9	145.2
32.5°	3463.8	1863.3	229.3	150.6	126.9	116.9	113.1	116.9	125.3	135.3	137.6
35°	3456.9	1651.6	194.1	134.5	113.1	103.2	101.7	108.5	116.9	124.6	126.1
37.5°	3509.6	1456.0	175.0	121.5	100.9	91.7	90.2	98.6	107.0	116.2	118.5
40°	3609.7	1302.3	161.3	109.3	91.0	81.0	78.0	84.1	95.5	107.8	110.8
42.5°	3739.7	1175.5	146.0	97.1	81.0	67.3	63.4	70.3	82.5	95.5	99.4
45°	3863.5	1066.2	129.2	83.3	68.0	52.0	50.4	59.6	65.7	78.7	81.8
47.5°	3931.5	969.9	114.6	68.0	52.7	42.0	42.0	44.3	50.4	65.7	68.8
50°	3908.6	892.7	99.4	50.4	36.7	32.1	32.1	31.3	40.5	52.7	55.0
52.5°	3862.7	848.4	85.6	39.0	25.2	22.9	20.6	22.9	28.3	33.6	34.4
55°	3855.8	840.7	71.8	31.3	17.6	15.3	11.5	11.5	11.5	10.7	9.2
57.5°	3909.3	852.9	60.4	25.2	13.0	9.9	6.1	0.0	0.0	0.0	0.0
60°	3964.4	865.9	52.0	17.6	9.2	5.4	0.8	0.0	0.0	0.0	0.0
62.5°	3872.7	836.9	43.6	10.7	6.9	2.3	0.0	0.0	0.0	0.0	0.0
65°	3401.9	712.3	34.4	7.6	4.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2419.7	476.9	22.9	4.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	1104.4	199.5	14.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	236.2	61.9	9.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	48.2	45.1	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	15.3	71.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	9.2	51.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.5	7.6	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)