

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: P268339

Luminaire Tested: **GAN-AF-03-LED-U-AFL-7027-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268339
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-7027-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 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: 14178.5 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 191
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

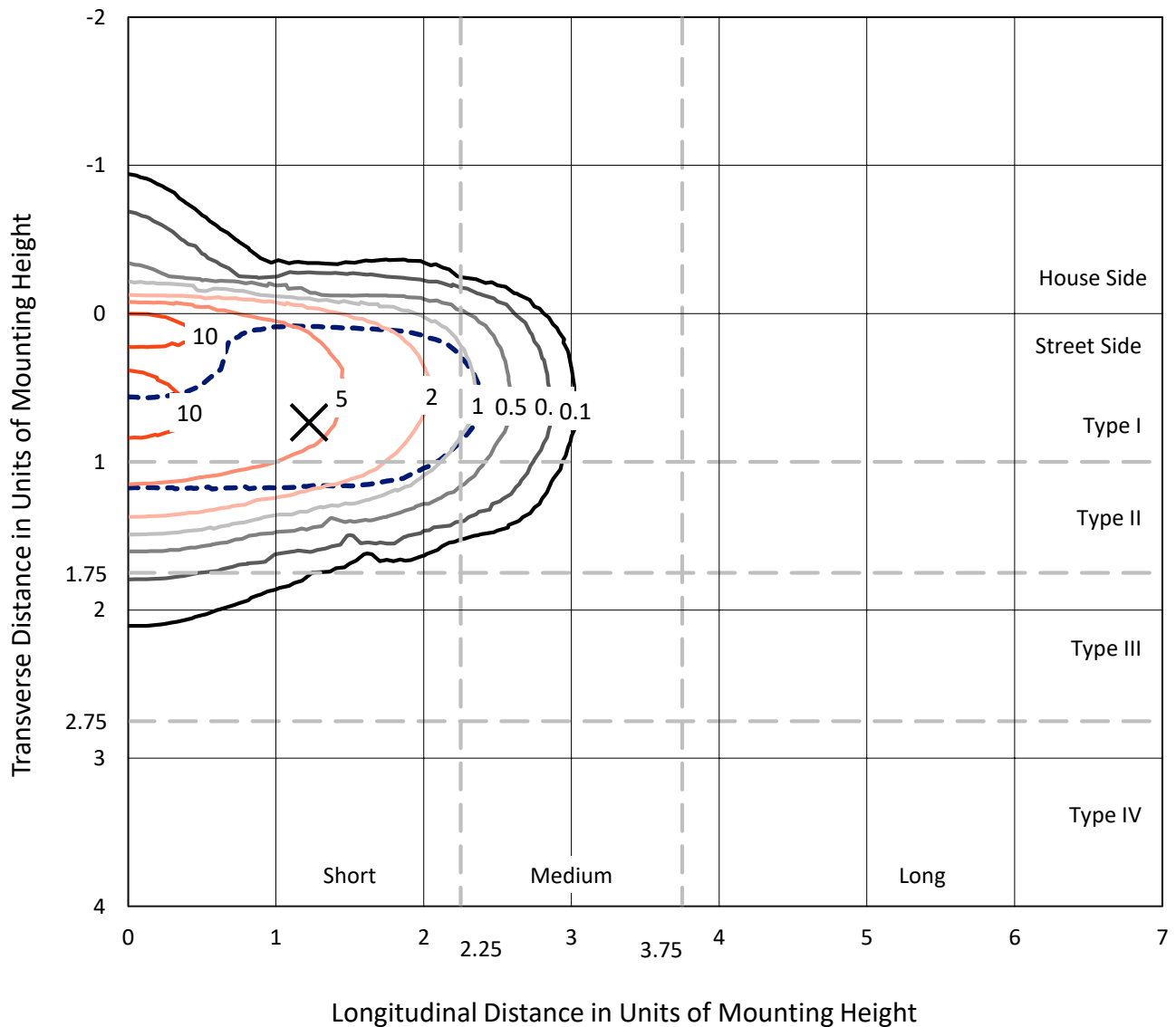


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

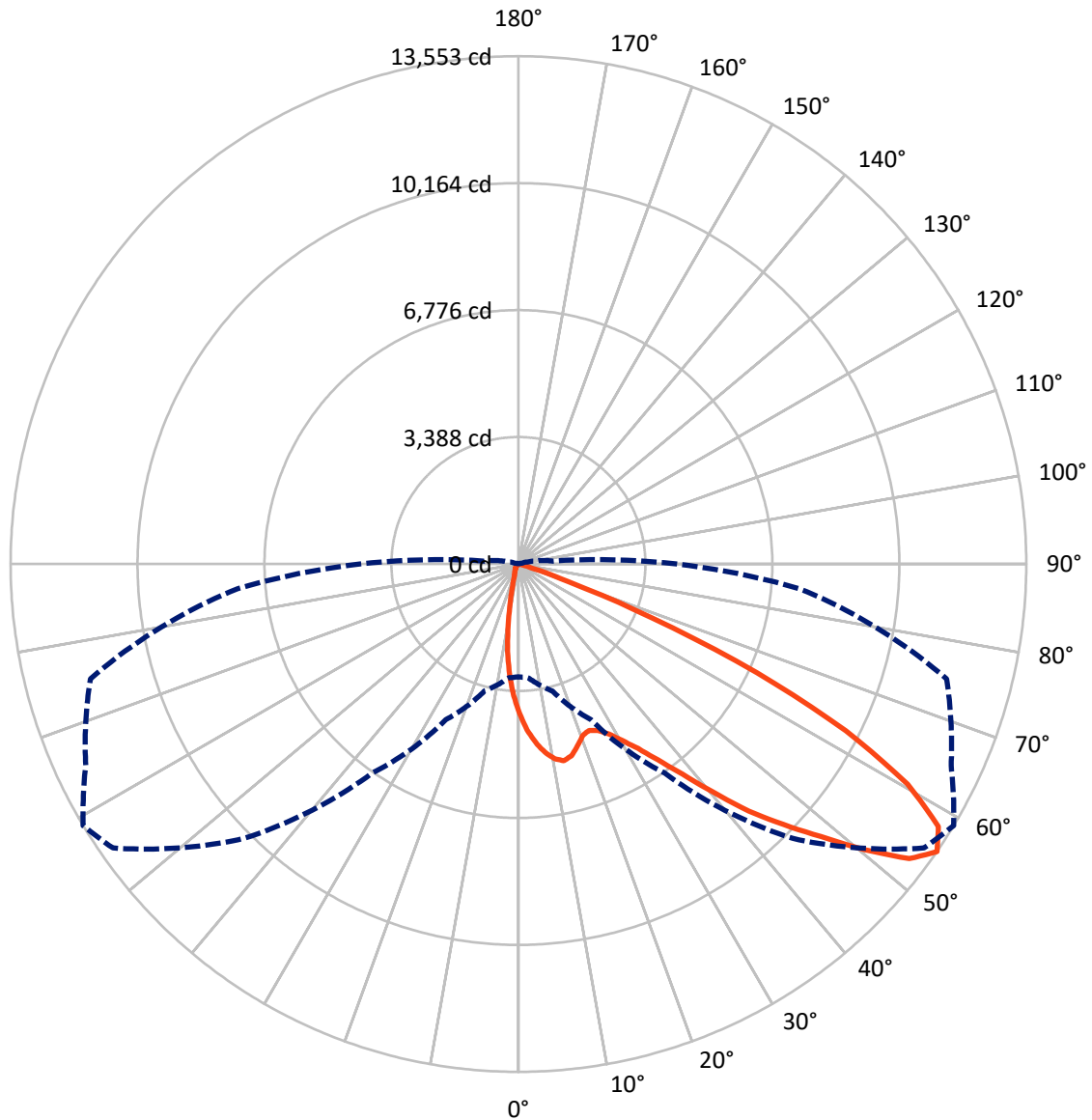


Based on 20 foot mounting height. Maximum calculated value = 12.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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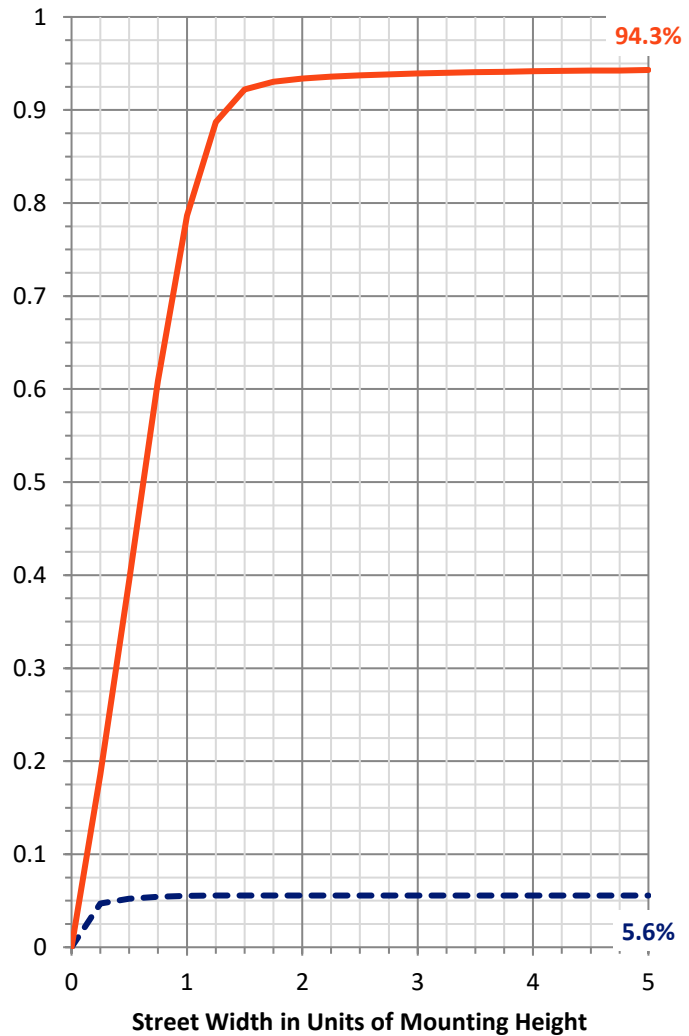
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	792.0	0.0	792.0
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	13386.5	0.0	13386.5
	% Fixture	94.4	0.0	94.4
Total	Lumens	14178.5	0.0	14178.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	334.3	2.4
10°-20°	800.4	5.6
20°-30°	1362.0	9.6
30°-40°	2342.3	16.5
40°-50°	3616.3	25.5
50°-60°	3635.6	25.6
60°-70°	1864.4	13.1
70°-80°	202.0	1.4
80°-90°	21.1	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°	14178.5	100.0
0°-180°	14178.5	100.0

Coefficient of Utilization



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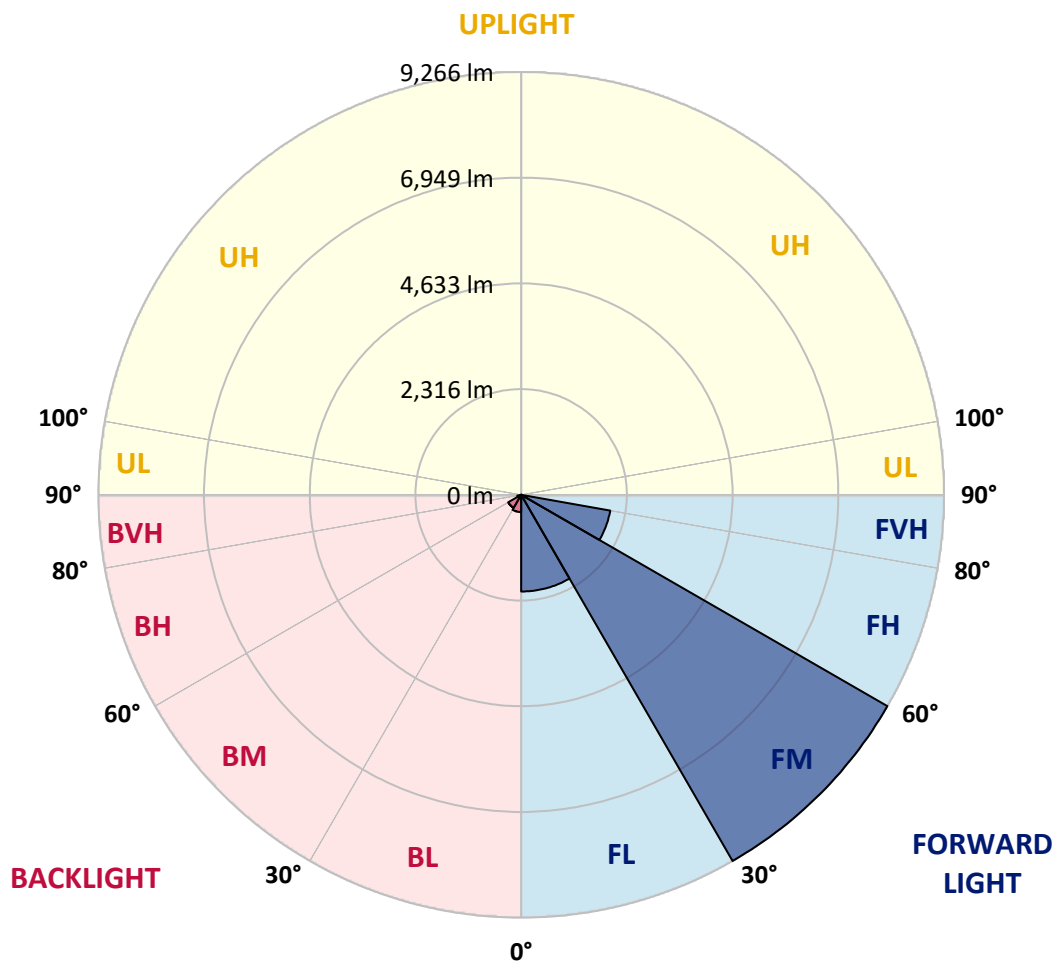
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2118.7	14.9			
FM	(30°-60°)	9265.6	65.3			
FH	(60°-80°)	1981.6	14.0			G2/5000
FVH	(80°-90°)	20.7	0.1			G1/100
BL	(0°-30°)	378.0	2.7	B1/500		
BM	(30°-60°)	328.7	2.3	B1/1000		
BH	(60°-80°)	84.8	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°	3991.2	3991.2	3991.2	3991.2	3991.2	3991.2	3991.2	3991.2	3991.2	3991.2	3991.2
2.5°	4722.5	4672.3	4657.3	4647.2	4601.2	4543.4	4464.8	4427.9	4352.6	4231.3	4082.3
5°	5155.1	5145.9	5112.4	5094.0	5044.6	4962.6	4837.2	4776.8	4657.3	4453.1	4186.1
7.5°	4966.0	5023.7	5069.8	5146.7	5243.8	5240.4	5135.0	5072.2	4938.3	4668.9	4301.7
10°	4235.5	4282.4	4357.7	4532.6	4888.9	5203.6	5327.5	5282.3	5175.1	4867.2	4413.0
12.5°	4092.5	4087.4	4100.9	4151.8	4338.5	4786.9	5294.8	5386.0	5364.3	5048.8	4518.4
15°	4168.6	4162.7	4161.0	4178.6	4223.8	4413.0	5049.6	5311.6	5479.8	5216.9	4607.9
17.5°	4381.9	4356.8	4343.5	4329.2	4315.8	4362.7	4755.1	5103.2	5497.3	5364.3	4682.3
20°	4747.6	4705.7	4656.4	4576.1	4500.8	4477.3	4631.3	4888.9	5434.6	5476.3	4730.8
22.5°	5206.9	5153.3	5068.1	4921.6	4768.6	4679.8	4692.3	4821.3	5340.9	5598.5	4753.4
25°	5723.2	5654.7	5540.8	5337.5	5112.4	4955.1	4873.0	4918.3	5298.2	5741.6	4779.4
27.5°	6276.3	6200.1	6051.3	5774.2	5519.0	5306.6	5139.2	5133.4	5371.0	5929.1	4821.3
30°	6824.3	6812.7	6618.5	6325.7	5987.7	5729.1	5488.0	5457.2	5574.3	6188.5	4904.0
32.5°	7555.6	7467.8	7230.2	6928.9	6539.0	6228.6	5943.2	5871.3	5886.4	6490.6	5032.0
35°	8477.8	8381.5	8046.7	7630.9	7195.1	6828.6	6513.2	6415.2	6378.3	6985.0	5248.0
37.5°	9073.5	9071.9	8861.8	8438.4	7970.8	7566.6	7223.5	7108.8	7034.4	7582.5	5582.6
40°	9089.4	9128.7	9156.3	9152.1	8819.1	8446.8	8142.1	8000.8	7827.7	8380.6	6015.2
42.5°	8601.6	8702.8	8946.3	9359.6	9557.1	9408.9	9152.1	9013.2	8755.5	9234.9	6542.4
45°	7942.3	8012.5	8438.4	9199.8	9957.1	10362.8	10167.0	9918.5	9578.8	10126.1	7015.1
47.5°	7646.8	7659.4	7934.6	8770.6	9987.1	11144.4	11263.2	10859.0	10326.8	10844.0	7385.0
50°	6764.1	6786.6	7166.6	8026.7	9634.1	11513.3	12364.4	11981.1	11142.7	11397.1	7519.7
52.5°	5098.2	5130.0	5611.9	6804.3	8663.4	11356.1	13152.5	13059.6	12036.3	11667.4	7527.2
55°	3008.1	3049.8	3510.0	4580.3	6814.4	10355.3	13211.2	13552.5	12741.6	11827.2	7515.5
57.5°	1404.9	1434.1	1697.7	2359.6	4238.1	8184.0	12329.1	13214.4	13130.7	11911.6	7598.4
60°	746.3	754.8	818.4	1021.6	1915.2	5189.4	10608.1	11932.5	12776.1	12028.8	7699.6
62.5°	570.7	573.2	569.9	594.0	804.9	2303.6	8018.5	9809.9	11347.7	11940.9	7587.4
65°	494.4	498.6	475.3	469.5	516.3	821.7	4763.5	6992.5	8917.0	10755.2	6823.5
67.5°	443.5	445.1	416.8	392.4	400.9	444.3	1879.3	3828.0	5902.3	7883.6	4945.9
70°	408.3	406.7	375.8	337.3	326.4	303.7	597.5	1403.2	2820.6	3997.8	2300.2
72.5°	361.5	362.2	347.3	297.0	271.1	212.4	276.9	409.2	841.7	1089.5	538.9
75°	320.4	316.4	297.9	266.1	223.4	139.7	137.3	182.4	259.4	257.8	116.3
77.5°	231.8	227.6	233.5	218.4	171.5	90.4	68.6	87.9	105.5	102.0	32.6
80°	169.9	167.4	150.6	181.5	151.5	62.0	42.7	46.8	54.3	46.1	10.1
82.5°	116.3	115.4	106.3	100.4	86.1	37.6	26.8	29.3	35.2	26.0	5.0
85°	18.4	20.9	77.0	61.1	51.1	16.8	18.4	20.1	23.4	14.3	1.6
87.5°	0.0	0.0	36.0	31.8	10.1	6.6	10.9	11.7	11.7	7.5	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°	3991.2	3991.2	3991.2	3991.2	3991.2	3991.2	3991.2	3991.2	3991.2	3991.2	3991.2
2.5°	4006.3	3922.5	3767.9	3608.0	3459.8	3283.3	3162.0	3070.8	2965.3	2936.9	2998.8
5°	4033.8	3875.6	3542.6	3180.4	2839.8	2462.6	2173.8	1945.4	1738.7	1668.4	1732.0
7.5°	4077.3	3842.2	3299.2	2702.6	2110.2	1521.2	1117.9	852.6	683.6	633.5	660.2
10°	4120.9	3793.7	3017.2	2137.0	1327.1	740.6	481.9	385.0	348.9	341.4	345.6
12.5°	4156.8	3728.4	2673.4	1519.6	709.5	396.6	315.5	299.6	294.6	294.6	296.3
15°	4178.6	3629.7	2265.9	966.4	408.3	299.6	275.3	270.3	270.3	271.1	272.7
17.5°	4176.1	3504.2	1819.8	584.8	305.5	265.2	251.0	246.9	246.0	247.7	248.6
20°	4145.1	3340.2	1372.3	385.7	266.1	241.9	227.6	220.1	219.2	221.0	222.6
22.5°	4086.6	3137.7	981.5	297.0	240.1	219.2	201.7	194.9	194.9	196.5	198.3
25°	4015.5	2890.0	671.0	251.9	216.8	194.9	178.3	172.4	174.0	178.3	179.0
27.5°	3926.9	2611.5	456.0	215.9	188.3	170.7	158.1	154.0	158.1	164.0	165.6
30°	3850.7	2321.1	325.5	186.6	159.8	147.2	139.7	139.7	145.5	156.5	159.0
32.5°	3792.0	2040.0	251.0	164.7	138.9	128.0	123.8	128.0	137.3	148.1	150.6
35°	3784.5	1808.2	212.4	147.2	123.8	112.9	111.3	118.8	128.0	136.5	138.1
37.5°	3842.2	1594.0	191.6	132.9	110.4	100.4	98.8	107.9	117.1	127.2	129.6
40°	3951.9	1425.8	176.5	119.7	99.5	88.8	85.3	92.0	104.7	117.9	121.4
42.5°	4094.1	1286.9	159.8	106.3	88.8	73.7	69.4	77.0	90.4	104.7	108.8
45°	4229.7	1167.3	141.5	91.2	74.5	57.0	55.2	65.2	72.0	86.1	89.6
47.5°	4304.0	1061.7	125.6	74.5	57.8	46.1	46.1	48.5	55.2	72.0	75.3
50°	4279.0	977.3	108.8	55.2	40.2	35.2	35.2	34.3	44.3	57.8	60.2
52.5°	4228.9	928.8	93.8	42.7	27.6	25.2	22.5	25.2	30.9	36.8	37.6
55°	4221.2	920.5	78.6	34.3	19.3	16.8	12.5	12.5	12.5	11.7	10.1
57.5°	4279.9	933.8	66.0	27.6	14.3	10.9	6.6	0.0	0.0	0.0	0.0
60°	4340.2	948.0	57.0	19.3	10.1	5.8	0.9	0.0	0.0	0.0	0.0
62.5°	4239.7	916.2	47.7	11.7	7.5	2.5	0.0	0.0	0.0	0.0	0.0
65°	3724.3	779.8	37.6	8.4	5.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2649.1	522.2	25.2	5.0	0.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	1209.1	218.4	15.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	258.5	67.8	10.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	52.7	49.3	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	16.8	77.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.1	56.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.6	8.4	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)