

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: P200250

Luminaire Tested: **GAP-AF-02-LED-U-AFL-7050-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200250
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: GAP-AF-02-LED-U-AFL-7050-1200-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 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: 11156 lumens
Efficiency: N/A
Efficacy: 86.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

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

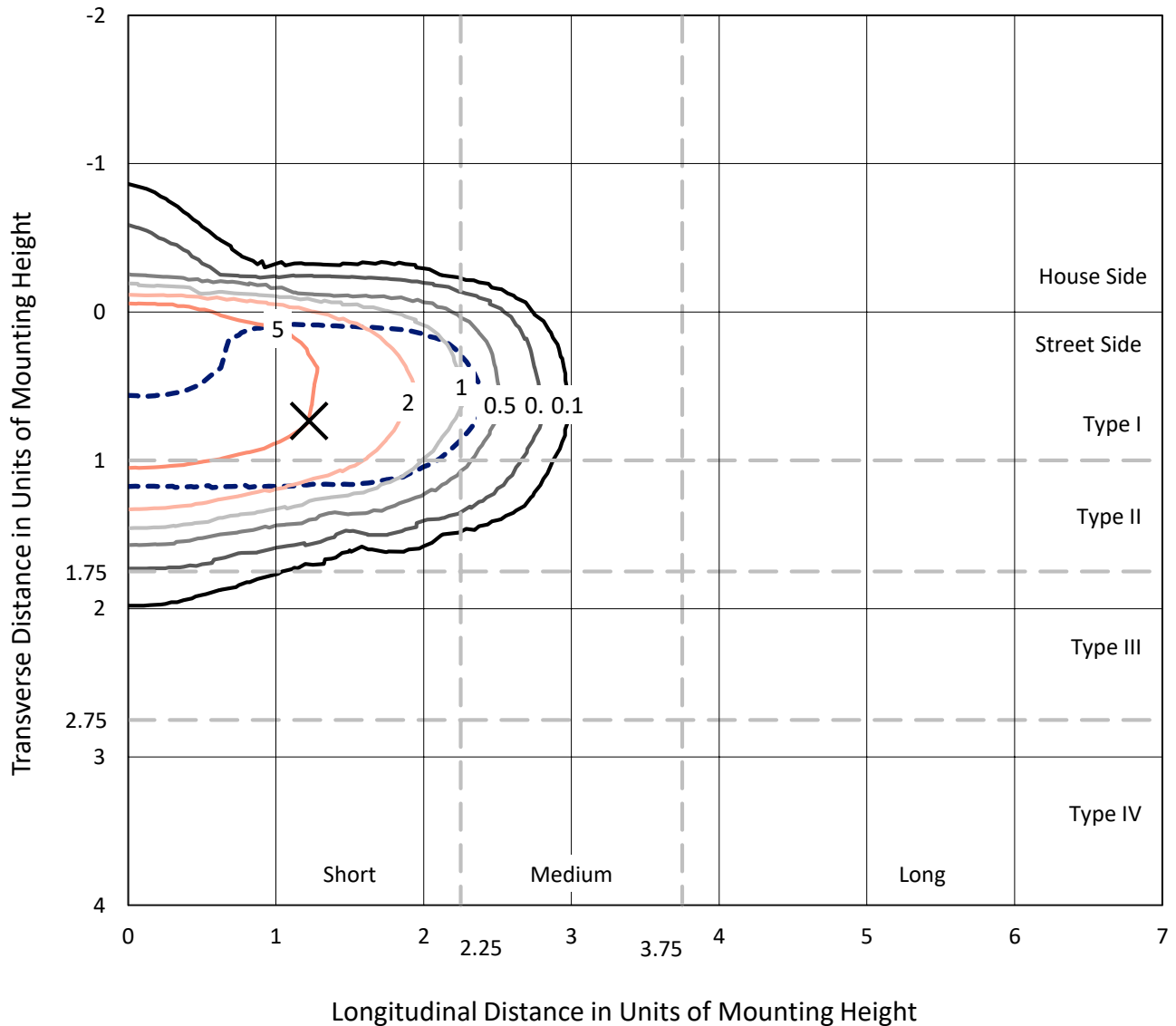


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

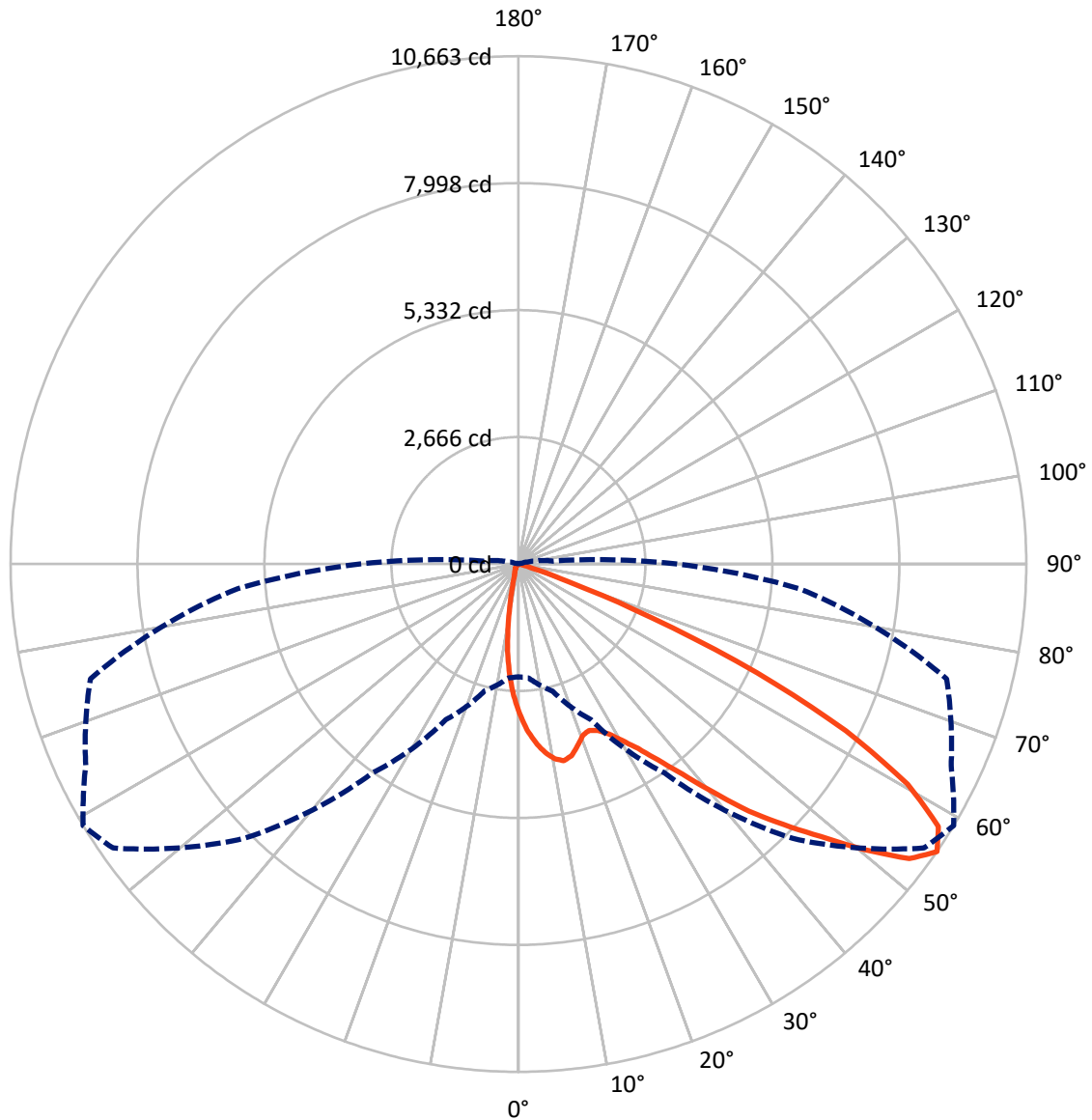


Based on 20 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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



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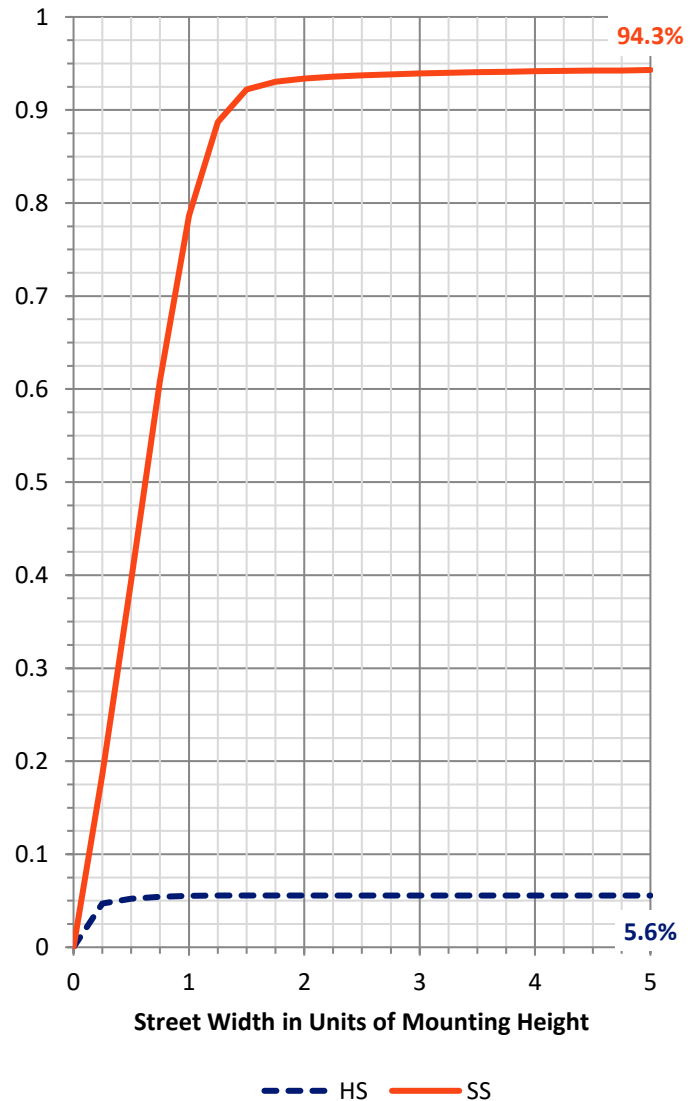
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	623.1	0.0	623.1
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	10532.9	0.0	10532.9
	% Fixture	94.4	0.0	94.4
Total	Lumens	11156.0	0.0	11156.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.0	2.4
10°-20°	629.8	5.6
20°-30°	1071.7	9.6
30°-40°	1843.0	16.5
40°-50°	2845.4	25.5
50°-60°	2860.6	25.6
60°-70°	1466.9	13.1
70°-80°	159.0	1.4
80°-90°	16.6	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°	11156.0	100.0
0°-180°	11156.0	100.0

Coefficient of Utilization



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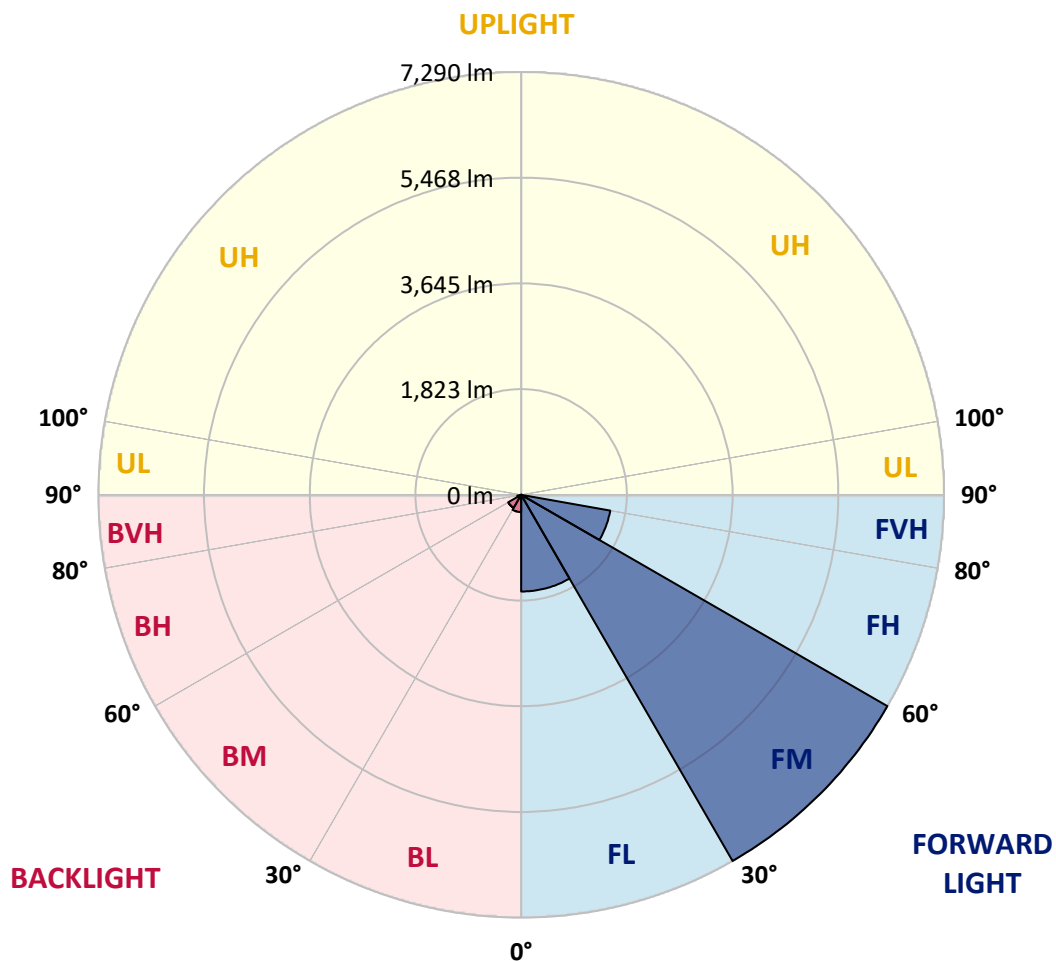
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1667.1	14.9			
FM	(30°-60°)	7290.4	65.3			
FH	(60°-80°)	1559.1	14.0			G1/1800
FVH	(80°-90°)	16.3	0.1			G1/100
BL	(0°-30°)	297.4	2.7	B1/500		
BM	(30°-60°)	258.6	2.3	B1/1000		
BH	(60°-80°)	66.8	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4
2.5°	3715.8	3676.3	3664.4	3656.5	3620.3	3574.9	3513.0	3484.0	3424.8	3329.3	3212.1
5°	4056.2	4048.9	4022.6	4008.1	3969.2	3904.7	3806.0	3758.6	3664.4	3503.8	3293.8
7.5°	3907.4	3952.8	3989.0	4049.6	4125.9	4123.3	4040.4	3991.0	3885.6	3673.6	3384.6
10°	3332.6	3369.5	3428.7	3566.3	3846.8	4094.3	4191.8	4156.2	4072.0	3829.7	3472.2
12.5°	3220.0	3216.1	3226.6	3266.8	3413.6	3766.5	4166.1	4237.9	4220.7	3972.5	3555.1
15°	3279.9	3275.3	3274.0	3287.8	3323.4	3472.2	3973.2	4179.3	4311.6	4104.9	3625.6
17.5°	3447.8	3428.1	3417.5	3406.4	3395.8	3432.7	3741.5	4015.3	4325.4	4220.7	3684.2
20°	3735.5	3702.6	3663.8	3600.6	3541.3	3522.9	3644.0	3846.8	4276.0	4309.0	3722.4
22.5°	4097.0	4054.8	3987.7	3872.5	3752.0	3682.2	3692.1	3793.5	4202.3	4405.1	3740.1
25°	4503.2	4449.2	4359.7	4199.7	4022.6	3898.8	3834.3	3869.8	4168.7	4517.7	3760.5
27.5°	4938.4	4878.4	4761.3	4543.3	4342.5	4175.3	4043.6	4039.0	4226.0	4665.1	3793.5
30°	5369.6	5360.4	5207.6	4977.2	4711.2	4507.8	4318.2	4293.8	4386.0	4869.2	3858.6
32.5°	5945.0	5875.9	5688.9	5451.9	5145.1	4900.8	4676.3	4619.7	4631.6	5106.9	3959.4
35°	6670.5	6594.8	6331.4	6004.2	5661.2	5372.9	5124.7	5047.6	5018.7	5496.0	4129.2
37.5°	7139.2	7137.9	6972.7	6639.6	6271.5	5953.5	5683.6	5593.4	5534.8	5966.1	4392.6
40°	7151.8	7182.7	7204.4	7201.1	6939.1	6646.1	6406.5	6295.2	6159.0	6594.1	4732.9
42.5°	6767.9	6847.6	7039.2	7364.4	7519.8	7403.3	7201.1	7091.8	6889.1	7266.3	5147.7
45°	6249.1	6304.4	6639.6	7238.7	7834.5	8153.8	7999.7	7804.2	7536.9	7967.5	5519.7
47.5°	6016.7	6026.6	6243.2	6900.9	7858.2	8768.7	8862.2	8544.2	8125.5	8532.3	5810.7
50°	5322.2	5340.0	5638.8	6315.6	7580.3	9059.0	9728.6	9427.0	8767.4	8967.5	5916.7
52.5°	4011.4	4036.4	4415.6	5353.8	6816.7	8935.3	10348.7	10275.7	9470.5	9180.2	5922.6
55°	2366.8	2399.7	2761.8	3603.9	5361.7	8147.9	10394.8	10663.4	10025.5	9305.9	5913.4
57.5°	1105.4	1128.4	1335.8	1856.6	3334.6	6439.4	9700.9	10397.5	10331.6	9372.4	5978.6
60°	587.3	593.8	643.9	803.9	1507.0	4083.1	8346.7	9388.9	10052.5	9464.6	6058.2
62.5°	449.0	451.0	448.3	467.4	633.3	1812.5	6309.1	7718.6	8928.7	9395.4	5970.0
65°	389.1	392.4	373.9	369.3	406.2	646.5	3748.0	5501.9	7016.1	8462.6	5368.9
67.5°	348.9	350.2	327.9	308.8	315.4	349.6	1478.7	3012.0	4644.1	6203.1	3891.6
70°	321.3	320.0	295.6	265.3	256.8	239.0	470.1	1104.1	2219.3	3145.6	1809.8
72.5°	284.4	285.1	273.2	233.7	213.3	167.2	217.9	321.9	662.3	857.2	424.0
75°	252.2	248.9	234.4	209.4	175.8	109.9	108.0	143.5	204.1	202.8	91.5
77.5°	182.4	179.1	183.7	171.8	135.0	71.1	54.0	69.1	83.0	80.3	25.7
80°	133.6	131.7	118.5	142.9	119.2	48.7	33.6	36.9	42.8	36.2	7.9
82.5°	91.5	90.9	83.6	79.0	67.8	29.6	21.1	23.0	27.7	20.4	4.0
85°	14.5	16.5	60.6	48.1	40.2	13.2	14.5	15.8	18.4	11.2	1.3
87.5°	0.0	0.0	28.3	25.0	7.9	5.3	8.6	9.2	9.2	5.9	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°	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4	3140.4
2.5°	3152.2	3086.4	2964.6	2838.8	2722.3	2583.4	2487.9	2416.2	2333.2	2310.8	2359.6
5°	3174.0	3049.5	2787.5	2502.4	2234.5	1937.6	1710.4	1530.7	1368.1	1312.8	1362.8
7.5°	3208.2	3023.2	2595.9	2126.5	1660.4	1196.9	879.6	670.9	537.9	498.4	519.4
10°	3242.4	2985.0	2374.0	1681.4	1044.2	582.6	379.2	302.8	274.5	268.6	271.9
12.5°	3270.7	2933.6	2103.5	1195.6	558.3	312.1	248.2	235.7	231.7	231.7	233.1
15°	3287.8	2856.0	1782.8	760.4	321.3	235.7	216.6	212.7	212.7	213.3	214.6
17.5°	3285.9	2757.2	1431.9	460.2	240.3	208.7	197.5	194.2	193.6	194.9	195.5
20°	3261.5	2628.2	1079.7	303.5	209.4	190.3	179.1	173.1	172.5	173.8	175.1
22.5°	3215.4	2468.8	772.3	233.7	188.9	172.5	158.7	153.4	153.4	154.7	156.0
25°	3159.5	2274.0	528.0	198.2	170.5	153.4	140.2	135.6	136.9	140.2	140.9
27.5°	3089.7	2054.7	358.8	169.9	148.1	134.3	124.4	121.1	124.4	129.0	130.4
30°	3029.8	1826.3	256.1	146.8	125.7	115.9	109.9	109.9	114.6	123.1	125.1
32.5°	2983.7	1605.1	197.5	129.7	109.3	100.7	97.4	100.7	108.0	116.5	118.5
35°	2977.8	1422.7	167.2	115.9	97.4	88.9	87.6	93.5	100.7	107.3	108.6
37.5°	3023.2	1254.2	150.8	104.7	86.9	79.0	77.7	84.9	92.2	100.1	102.0
40°	3109.4	1121.8	138.9	94.1	78.3	69.8	67.2	72.4	82.3	92.8	95.5
42.5°	3221.4	1012.6	125.7	83.6	69.8	57.9	54.6	60.6	71.1	82.3	85.6
45°	3328.0	918.4	111.3	71.8	58.6	44.8	43.5	51.4	56.6	67.8	70.4
47.5°	3386.6	835.5	98.8	58.6	45.4	36.2	36.2	38.2	43.5	56.6	59.3
50°	3366.8	769.0	85.6	43.5	31.6	27.7	27.7	27.0	34.9	45.4	47.4
52.5°	3327.3	730.8	73.7	33.6	21.7	19.8	17.8	19.8	24.4	29.0	29.6
55°	3321.4	724.2	61.9	27.0	15.1	13.2	9.9	9.9	9.9	9.2	7.9
57.5°	3367.5	734.7	52.0	21.7	11.2	8.6	5.3	0.0	0.0	0.0	0.0
60°	3414.9	745.9	44.8	15.1	7.9	4.6	0.7	0.0	0.0	0.0	0.0
62.5°	3335.9	720.9	37.5	9.2	5.9	2.0	0.0	0.0	0.0	0.0	0.0
65°	2930.4	613.6	29.6	6.6	4.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2084.4	410.8	19.8	4.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	951.3	171.8	12.5	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	203.4	53.3	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	41.5	38.8	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.2	61.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.9	44.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.3	6.6	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)