

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: McGRAW-EDISON

Report Number: P200090

Luminaire Tested: **GPC-AF-02-LED-E1-AFL-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200090
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: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-AFL-1200-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 4000K, 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: 11412 lumens
Efficiency: N/A
Efficacy: 88.5 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: 25 FT

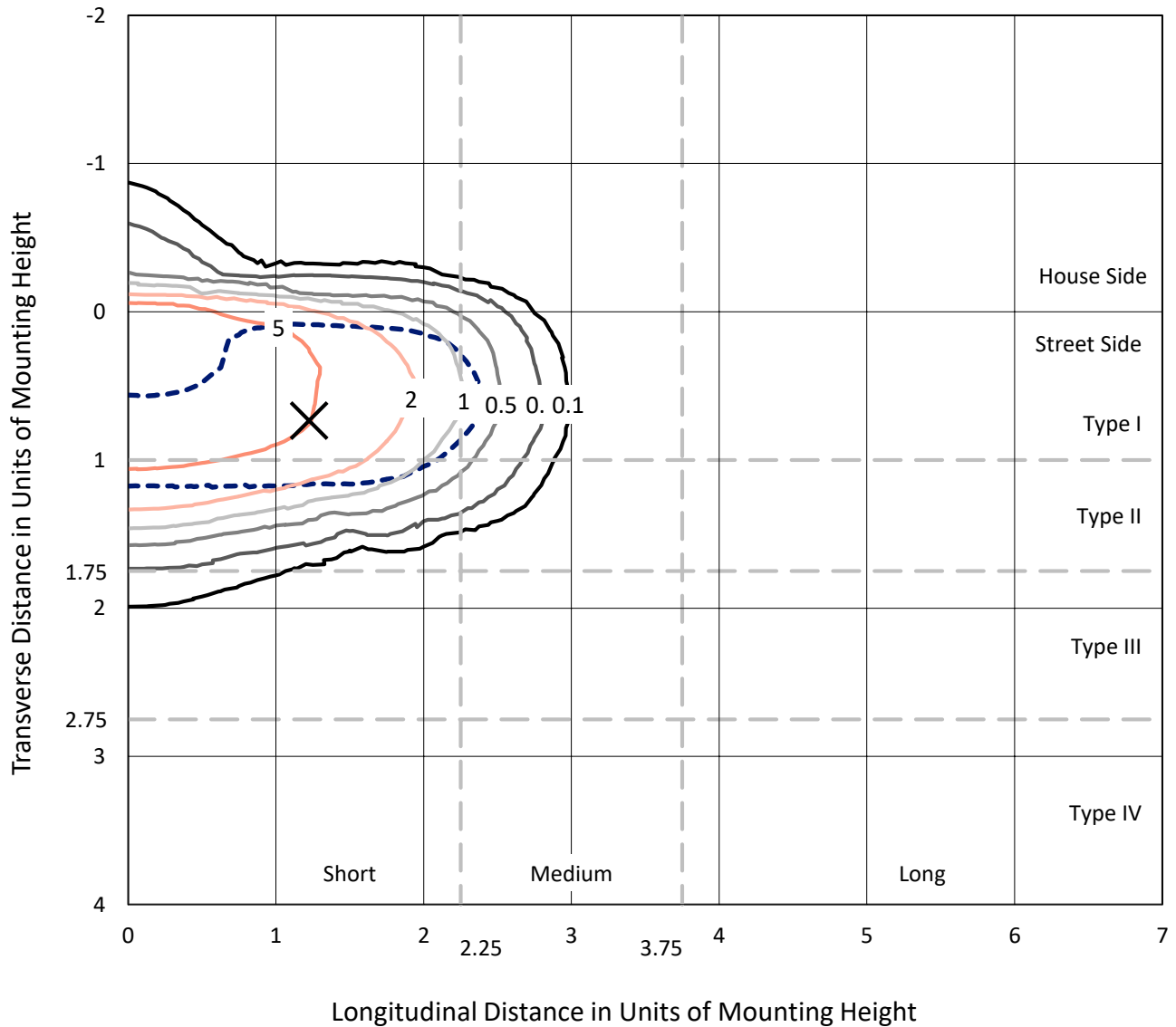


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Iso-Footcandle Lines of Horizontal Illumination

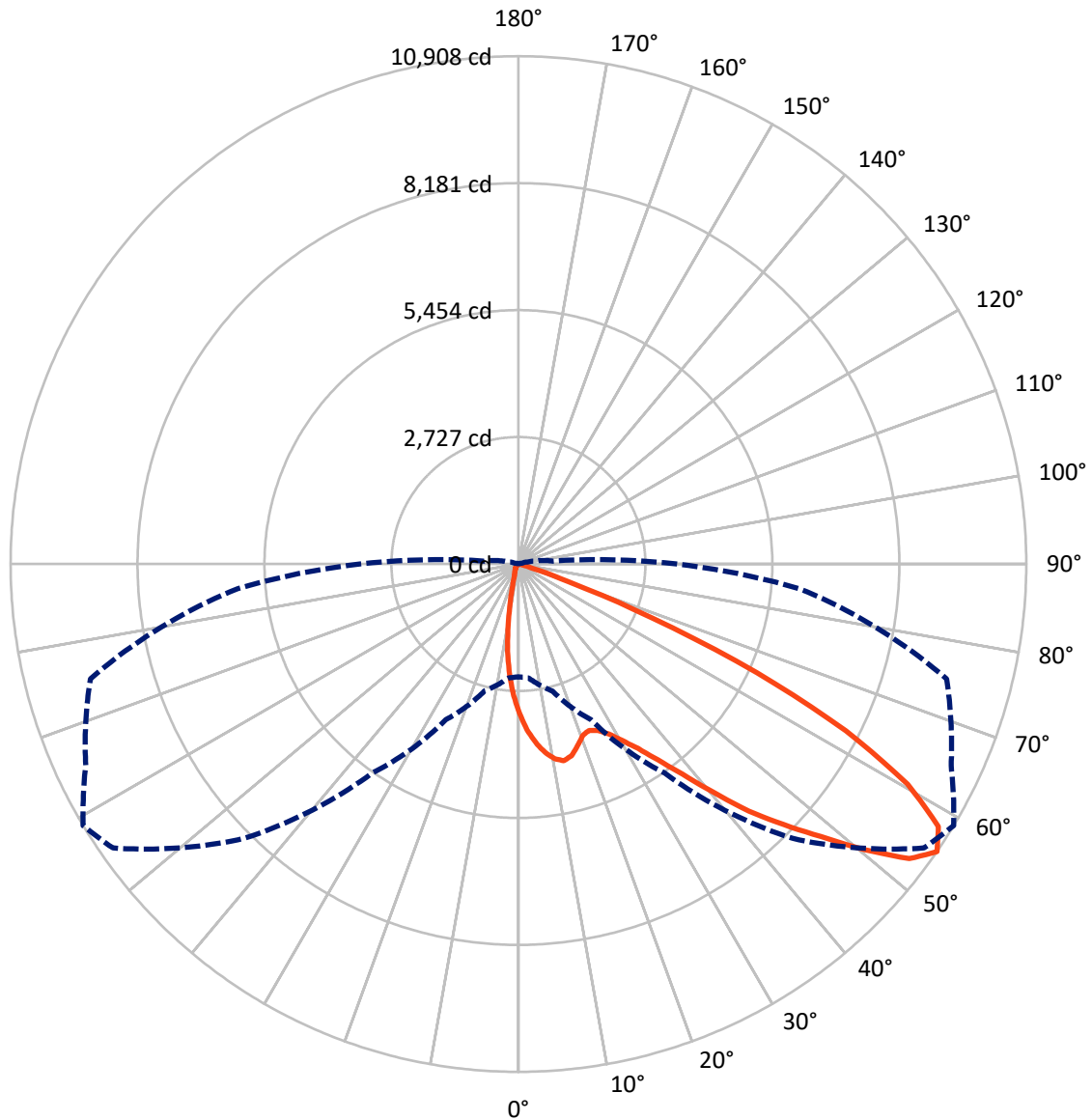
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10 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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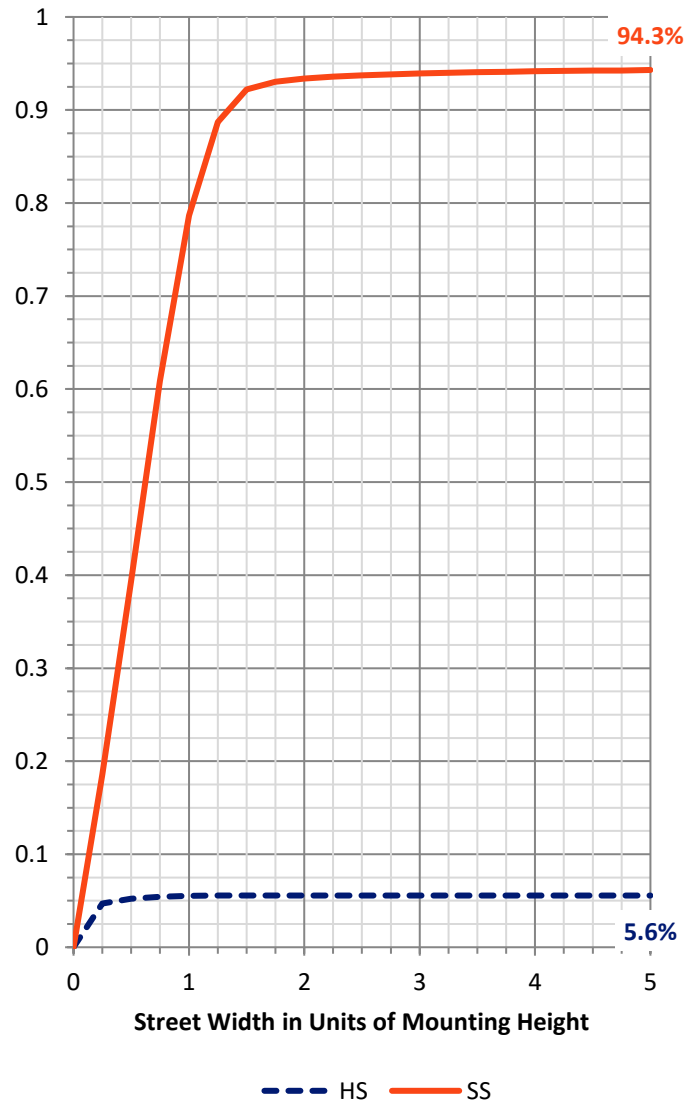
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	637.4	0.0	637.4
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	10774.6	0.0	10774.6
	% Fixture	94.4	0.0	94.4
Total	Lumens	11412.0	0.0	11412.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.1	2.4
10°-20°	644.2	5.6
20°-30°	1096.3	9.6
30°-40°	1885.3	16.5
40°-50°	2910.7	25.5
50°-60°	2926.2	25.6
60°-70°	1500.6	13.1
70°-80°	162.6	1.4
80°-90°	17.0	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°	11412.0	100.0
0°-180°	11412.0	100.0

Coefficient of Utilization



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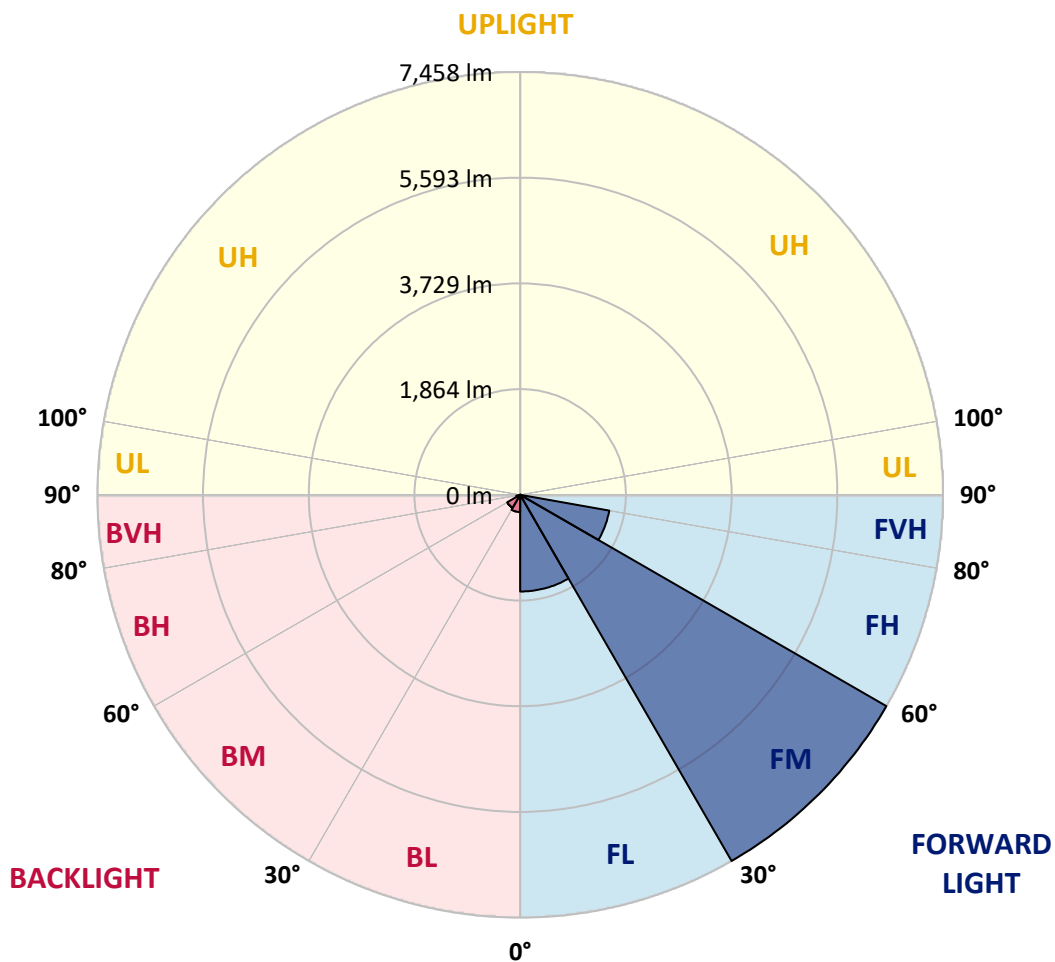
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1705.3	14.9			
FM	(30°-60°)	7457.7	65.3			
FH	(60°-80°)	1594.9	14.0			G1/1800
FVH	(80°-90°)	16.7	0.1			G1/100
BL	(0°-30°)	304.2	2.7	B1/500		
BM	(30°-60°)	264.5	2.3	B1/1000		
BH	(60°-80°)	68.3	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5
2.5°	3801.1	3760.7	3748.5	3740.4	3703.4	3656.9	3593.6	3564.0	3503.4	3405.7	3285.8
5°	4149.3	4141.8	4114.9	4100.1	4060.3	3994.3	3893.4	3844.9	3748.5	3584.2	3369.4
7.5°	3997.1	4043.5	4080.6	4142.5	4220.6	4217.9	4133.1	4082.6	3974.8	3757.9	3462.3
10°	3409.1	3446.8	3507.4	3648.1	3935.1	4188.3	4288.0	4251.6	4165.5	3917.6	3551.9
12.5°	3293.9	3289.9	3300.7	3341.8	3491.9	3852.9	4261.7	4335.2	4317.6	4063.7	3636.7
15°	3355.2	3350.5	3349.1	3363.3	3399.7	3551.9	4064.4	4275.2	4410.6	4199.1	3708.8
17.5°	3526.9	3506.8	3495.9	3484.6	3473.7	3511.5	3827.4	4107.5	4424.7	4317.6	3768.8
20°	3821.2	3787.6	3747.9	3683.2	3622.6	3603.8	3727.6	3935.1	4374.1	4407.9	3807.8
22.5°	4191.0	4147.9	4079.2	3961.4	3838.1	3766.7	3776.8	3880.6	4298.7	4506.2	3825.9
25°	4606.6	4551.3	4459.8	4296.1	4114.9	3988.3	3922.3	3958.6	4264.4	4621.4	3846.8
27.5°	5051.7	4990.4	4870.6	4647.6	4442.2	4271.1	4136.4	4131.7	4323.0	4772.2	3880.6
30°	5492.8	5483.4	5327.1	5091.4	4819.3	4611.3	4417.3	4392.3	4486.7	4981.0	3947.2
32.5°	6081.4	6010.8	5819.5	5577.0	5263.2	5013.3	4783.6	4725.7	4737.9	5224.1	4050.3
35°	6823.6	6746.2	6476.7	6142.0	5791.1	5496.2	5242.3	5163.4	5133.9	5622.1	4224.0
37.5°	7303.1	7301.7	7132.7	6792.0	6415.4	6090.1	5814.0	5721.8	5661.8	6103.0	4493.4
40°	7315.9	7347.5	7369.7	7366.4	7098.4	6798.6	6553.5	6439.7	6300.4	6745.4	4841.5
42.5°	6923.2	7004.8	7200.8	7533.4	7692.4	7573.2	7366.4	7254.6	7047.2	7433.1	5265.8
45°	6392.5	6449.1	6792.0	7404.8	8014.3	8340.9	8183.3	7983.3	7709.9	8150.4	5646.4
47.5°	6154.8	6164.9	6386.5	7059.3	8038.6	8969.9	9065.6	8740.3	8312.0	8728.1	5944.1
50°	5444.3	5462.6	5768.2	6460.5	7754.3	9266.9	9951.9	9643.4	8968.6	9173.3	6052.5
52.5°	4103.5	4129.0	4516.9	5476.7	6973.1	9140.4	10586.2	10511.5	9687.9	9390.9	6058.5
55°	2421.1	2454.8	2825.2	3686.6	5484.8	8334.9	10633.4	10908.1	10255.6	9519.5	6049.1
57.5°	1130.8	1154.3	1366.5	1899.2	3411.1	6587.2	9923.5	10636.1	10568.7	9587.5	6115.8
60°	600.8	607.4	658.7	822.4	1541.6	4176.8	8538.3	9604.4	10283.2	9681.8	6197.2
62.5°	459.3	461.4	458.6	478.1	647.8	1854.1	6453.9	7895.7	9133.6	9611.0	6107.0
65°	398.0	401.4	382.5	377.8	415.5	661.3	3834.0	5628.2	7177.1	8656.8	5492.1
67.5°	356.9	358.2	335.4	315.9	322.6	357.6	1512.6	3081.1	4750.7	6345.5	3980.9
70°	328.7	327.3	302.4	271.4	262.7	244.5	480.9	1129.4	2270.2	3217.8	1851.3
72.5°	290.9	291.6	279.5	239.1	218.2	171.0	222.9	329.3	677.5	876.9	433.7
75°	258.0	254.6	239.8	214.2	179.8	112.4	110.5	146.8	208.8	207.5	93.6
77.5°	186.6	183.2	187.9	175.7	138.1	72.7	55.2	70.7	84.9	82.1	26.3
80°	136.7	134.7	121.2	146.2	121.9	49.8	34.4	37.7	43.8	37.0	8.1
82.5°	93.6	93.0	85.5	80.8	69.4	30.3	21.6	23.5	28.3	20.9	4.1
85°	14.8	16.9	62.0	49.2	41.1	13.5	14.8	16.2	18.8	11.5	1.3
87.5°	0.0	0.0	28.9	25.6	8.1	5.4	8.8	9.4	9.4	6.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5	3212.5
2.5°	3224.5	3157.2	3032.6	2904.0	2784.8	2642.7	2545.0	2471.7	2386.7	2363.8	2413.8
5°	3246.8	3119.5	2851.5	2559.8	2285.8	1982.1	1749.7	1565.8	1399.5	1342.9	1394.1
7.5°	3281.8	3092.6	2655.5	2175.3	1698.5	1224.4	899.8	686.3	550.2	509.8	531.3
10°	3316.8	3053.5	2428.5	1720.0	1068.2	596.0	387.9	309.7	280.8	274.8	278.1
12.5°	3345.8	3000.9	2151.8	1223.0	571.1	319.3	253.9	241.1	237.0	237.0	238.4
15°	3363.3	2921.5	1823.7	777.9	328.7	241.1	221.6	217.6	217.6	218.2	219.5
17.5°	3361.3	2820.5	1464.8	470.8	245.8	213.5	202.0	198.7	198.0	199.4	200.0
20°	3336.4	2688.5	1104.5	310.5	214.2	194.7	183.2	177.1	176.5	177.8	179.1
22.5°	3289.2	2525.5	790.0	239.1	193.2	176.5	162.3	156.9	156.9	158.3	159.6
25°	3232.0	2326.2	540.1	202.7	174.4	156.9	143.4	138.7	140.0	143.4	144.1
27.5°	3160.6	2101.9	367.0	173.8	151.5	137.4	127.3	123.9	127.3	132.0	133.4
30°	3099.3	1868.2	262.0	150.2	128.6	118.6	112.4	112.4	117.2	125.9	128.0
32.5°	3052.2	1641.9	202.0	132.7	111.8	103.0	99.6	103.0	110.5	119.2	121.2
35°	3046.1	1455.4	171.0	118.6	99.6	90.9	89.6	95.6	103.0	109.8	111.1
37.5°	3092.6	1283.0	154.3	107.1	88.9	80.8	79.5	86.8	94.3	102.4	104.3
40°	3180.8	1147.5	142.1	96.3	80.1	71.4	68.7	74.1	84.2	94.9	97.7
42.5°	3295.3	1035.8	128.6	85.5	71.4	59.2	55.9	62.0	72.7	84.2	87.6
45°	3404.4	939.5	113.9	73.4	59.9	45.8	44.5	52.6	57.9	69.4	72.0
47.5°	3464.3	854.7	101.1	59.9	46.4	37.0	37.0	39.1	44.5	57.9	60.7
50°	3444.1	786.6	87.6	44.5	32.3	28.3	28.3	27.6	35.7	46.4	48.5
52.5°	3403.7	747.6	75.4	34.4	22.2	20.3	18.2	20.3	25.0	29.7	30.3
55°	3397.6	740.8	63.3	27.6	15.4	13.5	10.1	10.1	10.1	9.4	8.1
57.5°	3444.8	751.6	53.2	22.2	11.5	8.8	5.4	0.0	0.0	0.0	0.0
60°	3493.3	763.0	45.8	15.4	8.1	4.7	0.7	0.0	0.0	0.0	0.0
62.5°	3412.5	737.4	38.4	9.4	6.0	2.0	0.0	0.0	0.0	0.0	0.0
65°	2997.7	627.7	30.3	6.8	4.1	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2132.2	420.2	20.3	4.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0
70°	973.1	175.7	12.8	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	208.1	54.5	8.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	42.5	39.7	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	13.5	62.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	8.1	45.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.3	6.8	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)