

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: P300676

Luminaire Tested: **GLNA-AF-03-LED-E1-AFL-7050-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300676
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: GLNA-AF-03-LED-E1-AFL-7050-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 5000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive
Frontline WITH HOUSESIDE SHIELD OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10918.2 lumens
Efficiency: N/A
Efficacy: 88.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 124
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

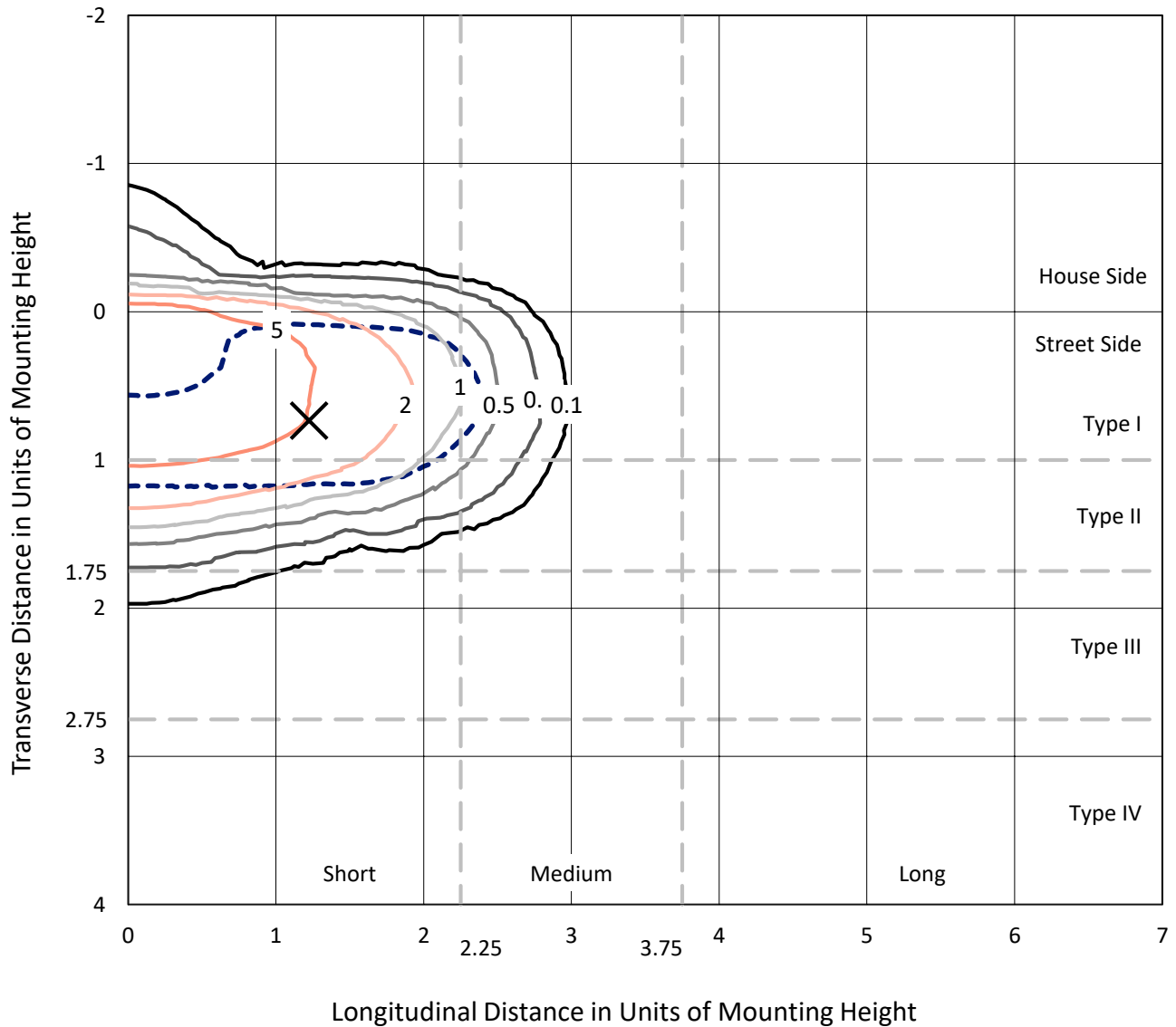


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

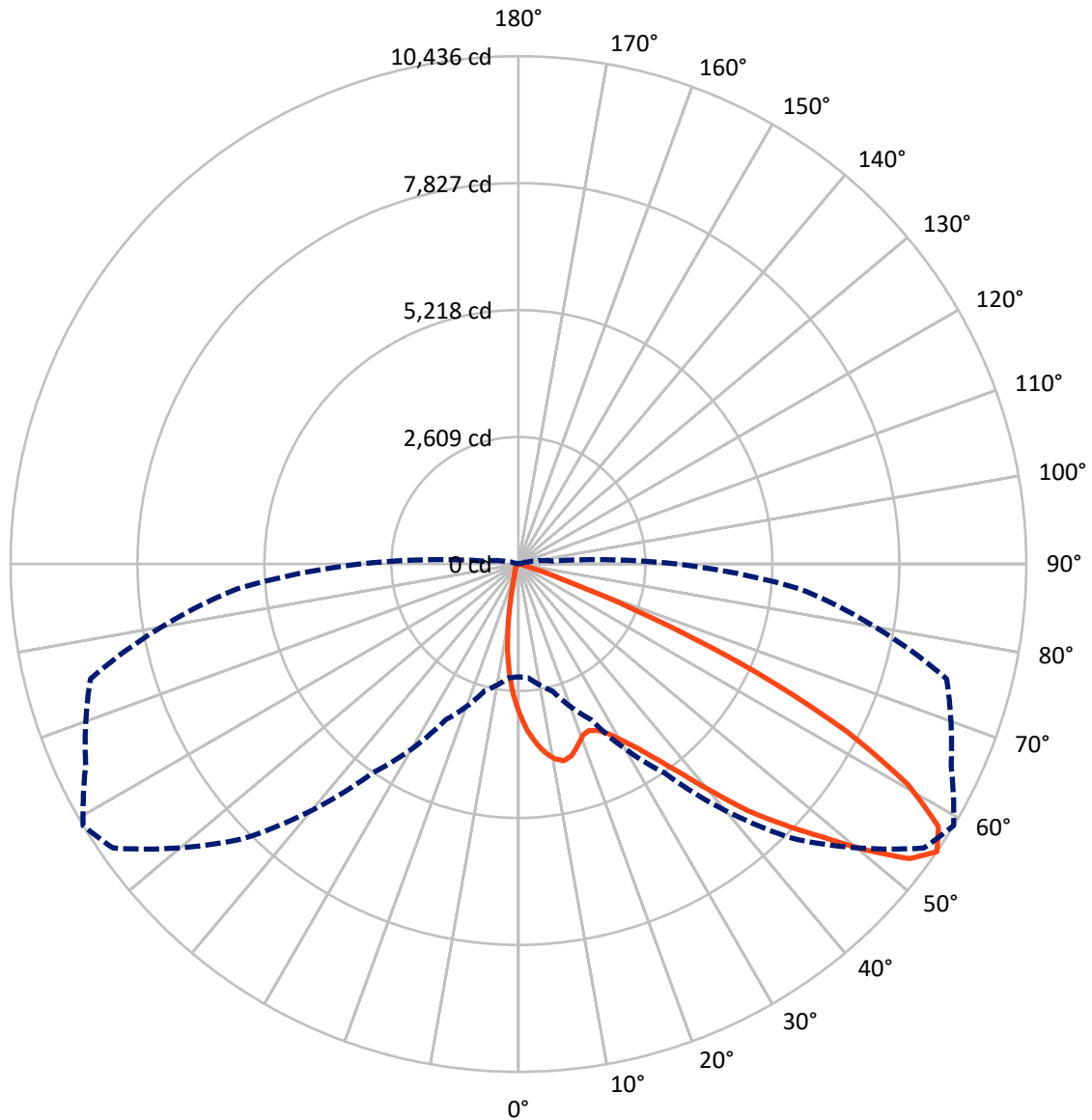


Based on 20 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



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

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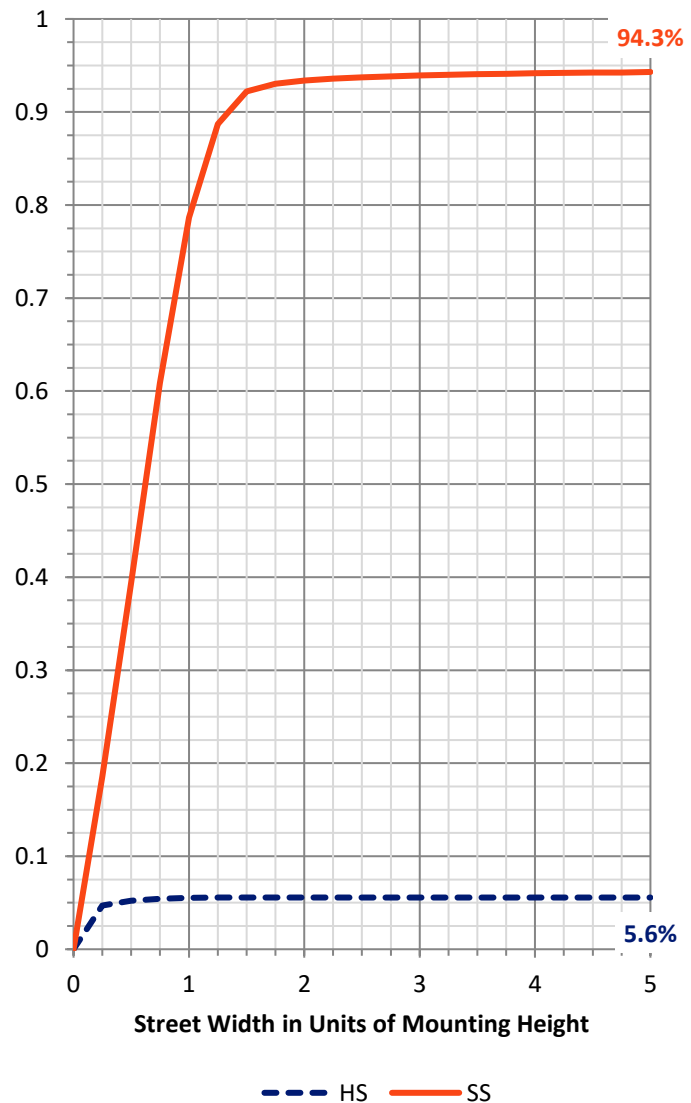
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	609.8	0.0	609.8
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	10308.3	0.0	10308.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	10918.2	0.0	10918.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	257.4	2.4
10°-20°	616.4	5.6
20°-30°	1048.8	9.6
30°-40°	1803.7	16.5
40°-50°	2784.8	25.5
50°-60°	2799.6	25.6
60°-70°	1435.6	13.1
70°-80°	155.6	1.4
80°-90°	16.3	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°	10918.2	100.0
0°-180°	10918.2	100.0

Coefficient of Utilization



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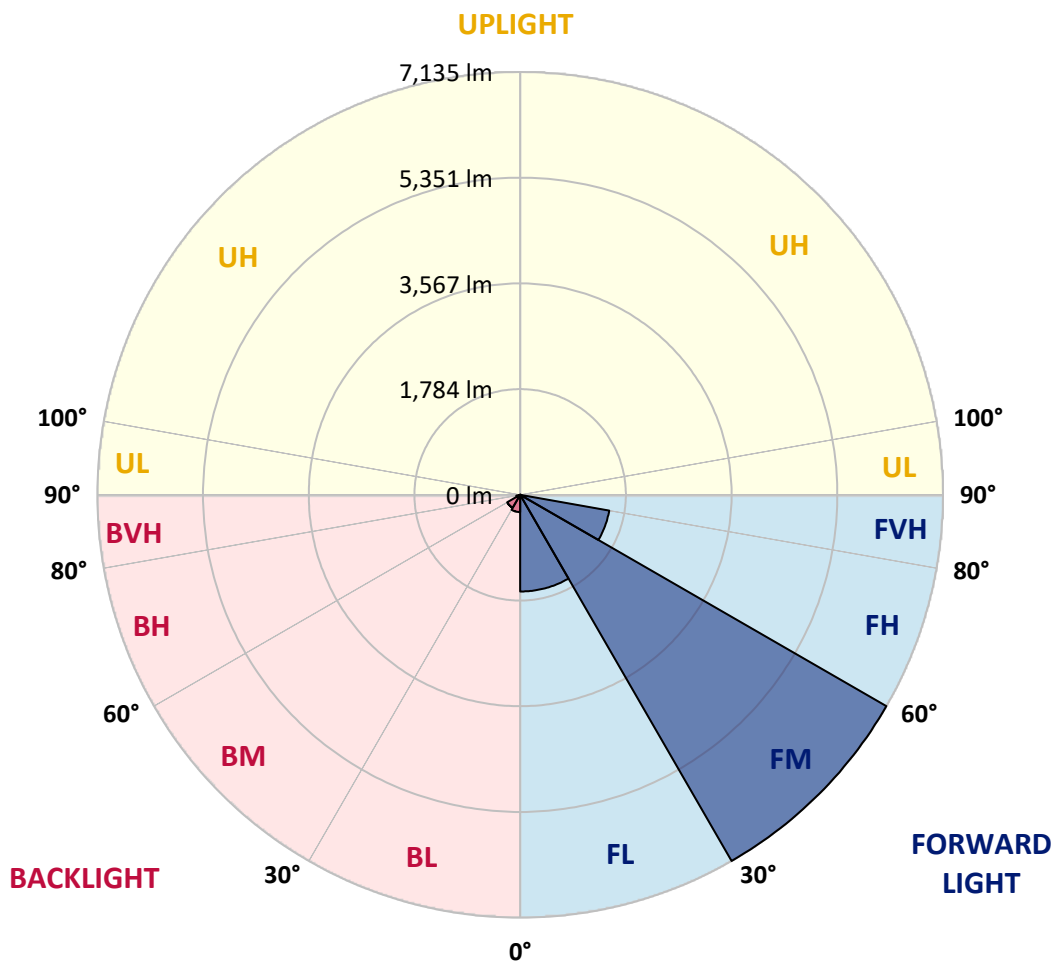
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1631.5	14.9			
FM	(30°-60°)	7135.0	65.3			
FH	(60°-80°)	1525.9	14.0			G1/1800
FVH	(80°-90°)	15.9	0.1			G1/100
BL	(0°-30°)	291.1	2.7	B1/500		
BM	(30°-60°)	253.1	2.3	B1/1000		
BH	(60°-80°)	65.3	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°	3073.4	3073.4	3073.4	3073.4	3073.4	3073.4	3073.4	3073.4	3073.4	3073.4	3073.4
2.5°	3636.6	3597.9	3586.3	3578.6	3543.1	3498.7	3438.1	3409.8	3351.8	3258.3	3143.7
5°	3969.7	3962.6	3936.8	3922.6	3884.6	3821.5	3724.8	3678.4	3586.3	3429.1	3223.5
7.5°	3824.1	3868.5	3904.0	3963.2	4038.0	4035.4	3954.2	3905.9	3802.8	3595.3	3312.5
10°	3261.6	3297.6	3355.6	3490.3	3764.8	4007.0	4102.4	4067.6	3985.1	3748.0	3398.2
12.5°	3151.4	3147.5	3157.8	3197.1	3340.8	3686.2	4077.3	4147.5	4130.8	3887.8	3479.3
15°	3210.0	3205.5	3204.2	3217.8	3252.5	3398.2	3888.5	4090.2	4219.7	4017.4	3548.3
17.5°	3374.3	3355.0	3344.7	3333.7	3323.4	3359.5	3661.7	3929.7	4233.2	4130.8	3605.6
20°	3655.9	3623.7	3585.7	3523.8	3465.8	3447.8	3566.3	3764.8	4184.9	4217.1	3643.0
22.5°	4009.6	3968.4	3902.7	3789.9	3672.0	3603.7	3613.4	3712.6	4112.7	4311.2	3660.4
25°	4407.2	4354.3	4266.7	4110.1	3936.8	3815.7	3752.5	3787.3	4079.9	4421.3	3680.4
27.5°	4833.1	4774.4	4659.7	4446.5	4250.0	4086.3	3957.4	3952.9	4135.9	4565.7	3712.6
30°	5255.1	5246.1	5096.6	4871.1	4610.8	4411.7	4226.1	4202.3	4292.5	4765.4	3776.4
32.5°	5818.2	5750.6	5567.6	5335.6	5035.4	4796.3	4576.6	4521.2	4532.8	4998.0	3875.0
35°	6528.3	6454.2	6196.5	5876.2	5540.5	5258.3	5015.4	4940.0	4911.7	5378.8	4041.2
37.5°	6987.0	6985.8	6824.0	6498.0	6137.8	5826.6	5562.4	5474.2	5416.8	5838.9	4298.9
40°	6999.3	7029.6	7050.8	7047.6	6791.2	6504.4	6269.9	6161.0	6027.6	6453.5	4632.0
42.5°	6623.6	6701.6	6889.1	7207.4	7359.5	7245.4	7047.6	6940.7	6742.2	7111.4	5038.0
45°	6115.9	6170.0	6498.0	7084.3	7667.4	7979.9	7829.2	7637.8	7376.2	7797.6	5402.0
47.5°	5888.5	5898.1	6110.1	6753.8	7690.6	8581.7	8673.2	8362.0	7952.2	8350.4	5686.8
50°	5208.7	5226.1	5518.6	6181.0	7418.7	8865.9	9521.2	9226.1	8580.5	8776.3	5790.5
52.5°	3925.9	3950.3	4321.5	5239.6	6671.3	8744.8	10128.1	10056.6	9268.6	8984.4	5796.3
55°	2316.3	2348.6	2702.9	3527.0	5247.4	7974.1	10173.2	10436.1	9811.8	9107.5	5787.3
57.5°	1081.8	1104.4	1307.3	1817.0	3263.5	6302.1	9494.1	10175.8	10111.4	9172.6	5851.1
60°	574.7	581.2	630.1	786.7	1474.9	3996.1	8168.7	9188.7	9838.2	9262.8	5929.1
62.5°	439.4	441.4	438.8	457.5	619.8	1773.8	6174.6	7554.0	8738.3	9195.1	5842.7
65°	380.8	384.0	366.0	361.5	397.5	632.7	3668.1	5384.6	6866.6	8282.1	5254.5
67.5°	341.5	342.8	320.9	302.2	308.6	342.1	1447.2	2947.8	4545.1	6070.8	3808.6
70°	314.4	313.1	289.3	259.7	251.3	233.9	460.0	1080.5	2172.0	3078.6	1771.2
72.5°	278.3	279.0	267.4	228.7	208.8	163.7	213.3	315.1	648.2	838.9	414.9
75°	246.8	243.6	229.4	204.9	172.0	107.6	105.7	140.5	199.7	198.5	89.6
77.5°	178.5	175.3	179.8	168.2	132.1	69.6	52.8	67.7	81.2	78.6	25.1
80°	130.8	128.9	116.0	139.8	116.6	47.7	32.9	36.1	41.9	35.4	7.7
82.5°	89.6	88.9	81.8	77.3	66.4	29.0	20.6	22.6	27.1	20.0	3.9
85°	14.2	16.1	59.3	47.0	39.3	12.9	14.2	15.5	18.0	11.0	1.3
87.5°	0.0	0.0	27.7	24.5	7.7	5.2	8.4	9.0	9.0	5.8	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°	3073.4	3073.4	3073.4	3073.4	3073.4	3073.4	3073.4	3073.4	3073.4	3073.4	3073.4
2.5°	3085.0	3020.6	2901.4	2778.3	2664.3	2528.3	2434.9	2364.7	2283.5	2261.6	2309.3
5°	3106.3	2984.5	2728.1	2449.1	2186.8	1896.2	1674.0	1498.1	1338.9	1284.8	1333.7
7.5°	3139.8	2958.7	2540.6	2081.2	1625.0	1171.4	860.8	656.6	526.4	487.8	508.4
10°	3173.3	2921.4	2323.4	1645.6	1021.9	570.2	371.1	296.4	268.7	262.9	266.1
12.5°	3201.0	2871.1	2058.6	1170.1	546.4	305.4	242.9	230.7	226.8	226.8	228.1
15°	3217.8	2795.1	1744.8	744.2	314.4	230.7	212.0	208.1	208.1	208.8	210.0
17.5°	3215.8	2698.4	1401.4	450.4	235.2	204.3	193.3	190.1	189.4	190.7	191.4
20°	3192.0	2572.1	1056.7	297.0	204.9	186.2	175.3	169.5	168.8	170.1	171.4
22.5°	3146.9	2416.2	755.8	228.7	184.9	168.8	155.3	150.1	150.1	151.4	152.7
25°	3092.1	2225.5	516.7	193.9	166.9	150.1	137.2	132.7	134.0	137.2	137.9
27.5°	3023.8	2010.9	351.2	166.2	145.0	131.4	121.8	118.6	121.8	126.3	127.6
30°	2965.2	1787.4	250.6	143.7	123.1	113.4	107.6	107.6	112.1	120.5	122.4
32.5°	2920.1	1570.9	193.3	126.9	107.0	98.6	95.4	98.6	105.7	114.0	116.0
35°	2914.3	1392.4	163.7	113.4	95.4	87.0	85.7	91.5	98.6	105.0	106.3
37.5°	2958.7	1227.4	147.6	102.4	85.1	77.3	76.0	83.1	90.2	97.9	99.9
40°	3043.1	1097.9	136.0	92.1	76.7	68.3	65.7	70.9	80.5	90.8	93.4
42.5°	3152.7	991.0	123.1	81.8	68.3	56.7	53.5	59.3	69.6	80.5	83.8
45°	3257.1	898.8	108.9	70.2	57.3	43.8	42.5	50.3	55.4	66.4	68.9
47.5°	3314.4	817.6	96.6	57.3	44.5	35.4	35.4	37.4	42.5	55.4	58.0
50°	3295.1	752.6	83.8	42.5	30.9	27.1	27.1	26.4	34.1	44.5	46.4
52.5°	3256.4	715.2	72.2	32.9	21.3	19.3	17.4	19.3	23.8	28.4	29.0
55°	3250.6	708.8	60.6	26.4	14.8	12.9	9.7	9.7	9.7	9.0	7.7
57.5°	3295.7	719.1	50.9	21.3	11.0	8.4	5.2	0.0	0.0	0.0	0.0
60°	3342.1	730.0	43.8	14.8	7.7	4.5	0.6	0.0	0.0	0.0	0.0
62.5°	3264.8	705.5	36.7	9.0	5.8	1.9	0.0	0.0	0.0	0.0	0.0
65°	2867.9	600.5	29.0	6.4	3.9	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2039.9	402.1	19.3	3.9	0.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	931.0	168.2	12.2	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	199.1	52.2	8.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	40.6	38.0	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	12.9	59.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	7.7	43.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.3	6.4	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)