

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: P300672

Luminaire Tested: **GLNA-AF-03-LED-E1-AFL-7027-800-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300672
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-7027-800-HSS
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K 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: 9486.1 lumens
Efficiency: N/A
Efficacy: 76.5 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

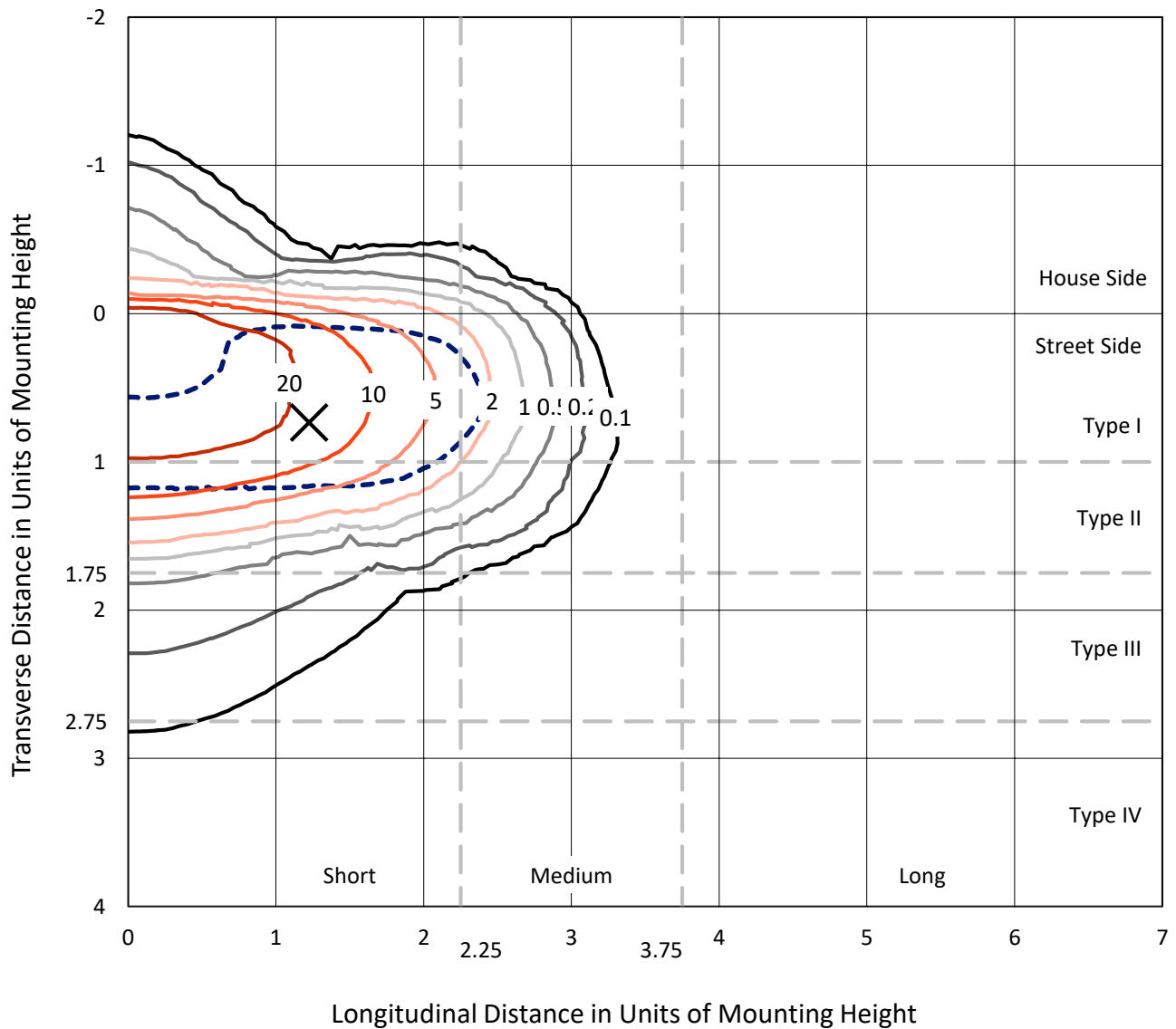


REPORT NUMBER: P300672

CATALOG NUMBER: GLNA-AF-03-LED-E1-AFL-7027-800-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

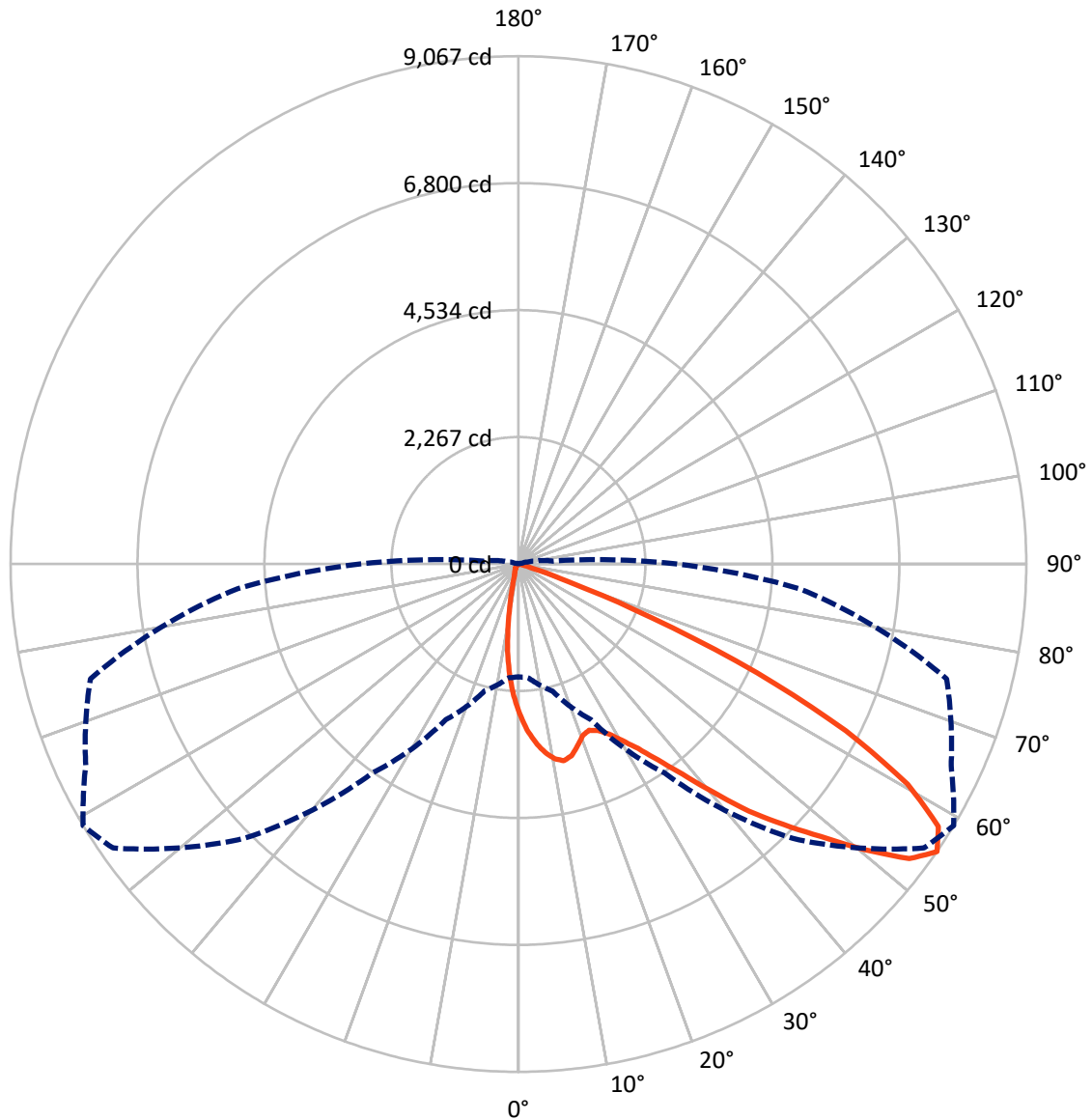


Based on 10 foot mounting height. Maximum calculated value = 33.2 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P300672

CATALOG NUMBER: GLNA-AF-03-LED-E1-AFL-7027-800-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P300672

CATALOG NUMBER: GLNA-AF-03-LED-E1-AFL-7027-800-HSS

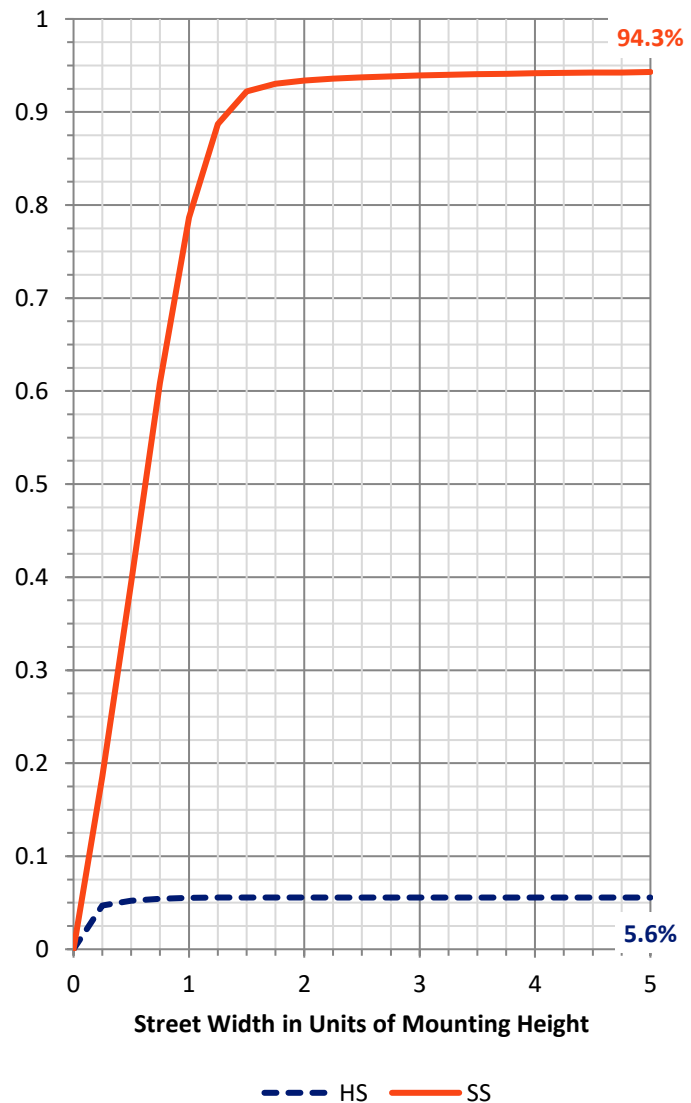
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	529.9	0.0	529.9
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	8956.3	0.0	8956.3
	% Fixture	94.4	0.0	94.4
Total	Lumens	9486.1	0.0	9486.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.7	2.4
10°-20°	535.5	5.6
20°-30°	911.2	9.6
30°-40°	1567.2	16.5
40°-50°	2419.5	25.5
50°-60°	2432.4	25.6
60°-70°	1247.3	13.1
70°-80°	135.2	1.4
80°-90°	14.1	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°	9486.1	100.0
0°-180°	9486.1	100.0



REPORT NUMBER: P300672

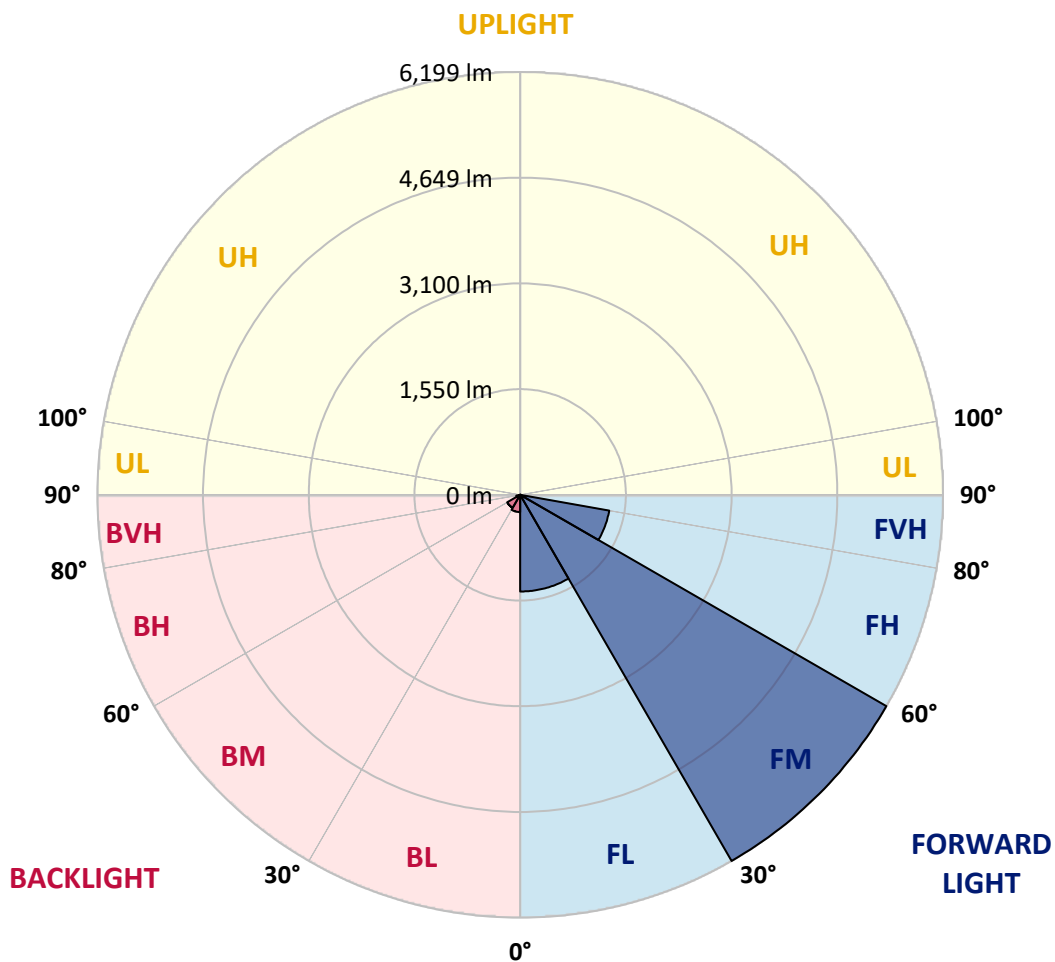
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1417.5	14.9			
FM (30°-60°)	6199.1	65.3			
FH (60°-80°)	1325.8	14.0			G1/1800
FVH (80°-90°)	13.8	0.1			G1/100
BL (0°-30°)	252.9	2.7	B1/500		
BM (30°-60°)	219.9	2.3	B0/220		
BH (60°-80°)	56.8	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





REPORT NUMBER: P300672

CATALOG NUMBER: GLNA-AF-03-LED-E1-AFL-7027-800-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3
2.5°	3159.6	3126.0	3115.9	3109.2	3078.4	3039.8	2987.2	2962.5	2912.1	2831.0	2731.3
5°	3449.0	3442.9	3420.5	3408.1	3375.1	3320.3	3236.3	3196.0	3115.9	2979.3	2800.7
7.5°	3322.5	3361.1	3391.9	3443.4	3508.3	3506.1	3435.6	3393.6	3304.0	3123.8	2878.0
10°	2833.8	2865.1	2915.5	3032.5	3271.0	3481.5	3564.3	3534.1	3462.4	3256.4	2952.5
12.5°	2738.0	2734.7	2743.6	2777.8	2902.6	3202.7	3542.5	3603.5	3589.0	3377.9	3023.0
15°	2789.0	2785.1	2784.0	2795.7	2825.9	2952.5	3378.5	3553.7	3666.2	3490.4	3082.9
17.5°	2931.7	2914.9	2906.0	2896.5	2887.5	2918.9	3181.4	3414.3	3678.0	3589.0	3132.7
20°	3176.4	3148.4	3115.4	3061.6	3011.2	2995.6	3098.6	3271.0	3636.0	3664.0	3165.2
22.5°	3483.7	3447.9	3390.8	3292.8	3190.4	3131.0	3139.4	3225.6	3573.3	3745.7	3180.3
25°	3829.1	3783.2	3707.1	3571.0	3420.5	3315.2	3260.4	3290.6	3544.7	3841.4	3197.7
27.5°	4199.2	4148.2	4048.6	3863.3	3692.5	3550.3	3438.4	3434.5	3593.4	3966.8	3225.6
30°	4565.8	4558.0	4428.1	4232.2	4006.0	3833.0	3671.8	3651.1	3729.5	4140.4	3281.1
32.5°	5055.1	4996.3	4837.3	4635.8	4374.9	4167.2	3976.4	3928.2	3938.3	4342.5	3366.7
35°	5672.0	5607.6	5383.7	5105.5	4813.8	4568.6	4357.6	4292.1	4267.5	4673.3	3511.1
37.5°	6070.6	6069.5	5929.0	5645.7	5332.8	5062.4	4832.9	4756.2	4706.3	5073.0	3735.1
40°	6081.2	6107.6	6126.0	6123.2	5900.4	5651.3	5447.5	5352.9	5237.1	5607.1	4024.5
42.5°	5754.9	5822.6	5985.5	6262.1	6394.2	6295.1	6123.2	6030.3	5857.9	6178.7	4377.2
45°	5313.7	5360.8	5645.7	6155.1	6661.8	6933.3	6802.3	6636.0	6408.7	6774.9	4693.5
47.5°	5116.1	5124.5	5308.7	5868.0	6681.9	7456.2	7535.6	7265.3	6909.2	7255.2	4940.9
50°	4525.5	4540.6	4794.8	5370.3	6445.7	7703.0	8272.4	8016.0	7455.0	7625.2	5031.0
52.5°	3410.9	3432.2	3754.7	4552.4	5796.3	7597.8	8799.7	8737.6	8052.9	7806.0	5036.1
55°	2012.5	2040.5	2348.4	3064.4	4559.1	6928.2	8838.9	9067.3	8524.8	7913.0	5028.2
57.5°	939.9	959.5	1135.9	1578.7	2835.5	5475.5	8248.8	8841.1	8785.1	7969.5	5083.7
60°	499.4	505.0	547.5	683.5	1281.4	3472.0	7097.3	7983.5	8547.8	8047.9	5151.4
62.5°	381.8	383.5	381.2	397.5	538.5	1541.2	5364.7	6563.2	7592.2	7989.1	5076.4
65°	330.8	333.6	318.0	314.1	345.4	549.7	3187.0	4678.4	5965.9	7195.8	4565.3
67.5°	296.7	297.8	278.8	262.6	268.2	297.3	1257.3	2561.1	3948.9	5274.6	3309.1
70°	273.2	272.1	251.4	225.6	218.3	203.2	399.7	938.8	1887.1	2674.8	1538.9
72.5°	241.8	242.4	232.3	198.7	181.4	142.2	185.3	273.7	563.2	728.9	360.5
75°	214.4	211.6	199.3	178.0	149.5	93.5	91.8	122.0	173.5	172.4	77.8
77.5°	155.1	152.3	156.2	146.1	114.8	60.5	45.9	58.8	70.5	68.3	21.8
80°	113.6	112.0	100.8	121.5	101.3	41.4	28.6	31.3	36.4	30.8	6.7
82.5°	77.8	77.3	71.1	67.2	57.7	25.2	17.9	19.6	23.5	17.4	3.4
85°	12.3	14.0	51.5	40.9	34.1	11.2	12.3	13.4	15.7	9.5	1.1
87.5°	0.0	0.0	24.1	21.3	6.7	4.5	7.3	7.8	7.8	5.0	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



REPORT NUMBER: P300672

CATALOG NUMBER: GLNA-AF-03-LED-E1-AFL-7027-800-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3
2.5°	2680.4	2624.4	2520.8	2413.9	2314.8	2196.7	2115.5	2054.5	1984.0	1964.9	2006.4
5°	2698.9	2593.1	2370.2	2127.8	1900.0	1647.5	1454.4	1301.6	1163.3	1116.3	1158.8
7.5°	2728.0	2570.7	2207.3	1808.2	1411.8	1017.7	747.9	570.4	457.4	423.8	441.7
10°	2757.1	2538.2	2018.7	1429.8	887.9	495.4	322.5	257.5	233.4	228.4	231.2
12.5°	2781.2	2494.5	1788.6	1016.6	474.7	265.4	211.0	200.4	197.1	197.1	198.2
15°	2795.7	2428.5	1516.0	646.6	273.2	200.4	184.2	180.8	180.8	181.4	182.5
17.5°	2794.0	2344.5	1217.6	391.3	204.3	177.5	167.9	165.1	164.6	165.7	166.3
20°	2773.3	2234.8	918.1	258.1	178.0	161.8	152.3	147.2	146.7	147.8	148.9
22.5°	2734.1	2099.3	656.7	198.7	160.7	146.7	134.9	130.4	130.4	131.6	132.7
25°	2686.5	1933.6	449.0	168.5	145.0	130.4	119.2	115.3	116.4	119.2	119.8
27.5°	2627.2	1747.2	305.1	144.4	126.0	114.2	105.8	103.0	105.8	109.7	110.8
30°	2576.3	1552.9	217.8	124.8	106.9	98.5	93.5	93.5	97.4	104.7	106.4
32.5°	2537.1	1364.8	167.9	110.3	92.9	85.7	82.9	85.7	91.8	99.1	100.8
35°	2532.0	1209.8	142.2	98.5	82.9	75.6	74.5	79.5	85.7	91.2	92.4
37.5°	2570.7	1066.4	128.2	89.0	73.9	67.2	66.1	72.2	78.4	85.1	86.8
40°	2644.0	953.9	118.1	80.1	66.6	59.3	57.1	61.6	70.0	78.9	81.2
42.5°	2739.2	861.0	106.9	71.1	59.3	49.3	46.5	51.5	60.5	70.0	72.8
45°	2829.9	780.9	94.6	61.0	49.8	38.1	36.9	43.7	48.1	57.7	59.9
47.5°	2879.7	710.4	84.0	49.8	38.6	30.8	30.8	32.5	36.9	48.1	50.4
50°	2862.9	653.9	72.8	36.9	26.9	23.5	23.5	23.0	29.7	38.6	40.3
52.5°	2829.3	621.4	62.7	28.6	18.5	16.8	15.1	16.8	20.7	24.6	25.2
55°	2824.3	615.8	52.6	23.0	12.9	11.2	8.4	8.4	8.4	7.8	6.7
57.5°	2863.4	624.8	44.2	18.5	9.5	7.3	4.5	0.0	0.0	0.0	0.0
60°	2903.8	634.3	38.1	12.9	6.7	3.9	0.6	0.0	0.0	0.0	0.0
62.5°	2836.6	613.0	31.9	7.8	5.0	1.7	0.0	0.0	0.0	0.0	0.0
65°	2491.7	521.7	25.2	5.6	3.4	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	1772.4	349.3	16.8	3.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	808.9	146.1	10.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	173.0	45.3	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	35.3	33.0	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	11.2	52.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	6.7	37.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	1.1	5.6	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)