

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: P648309

Luminaire Tested: **GALN-SA3B-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 800mA 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: 10897 lumens
Efficiency: N/A
Efficacy: 90.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

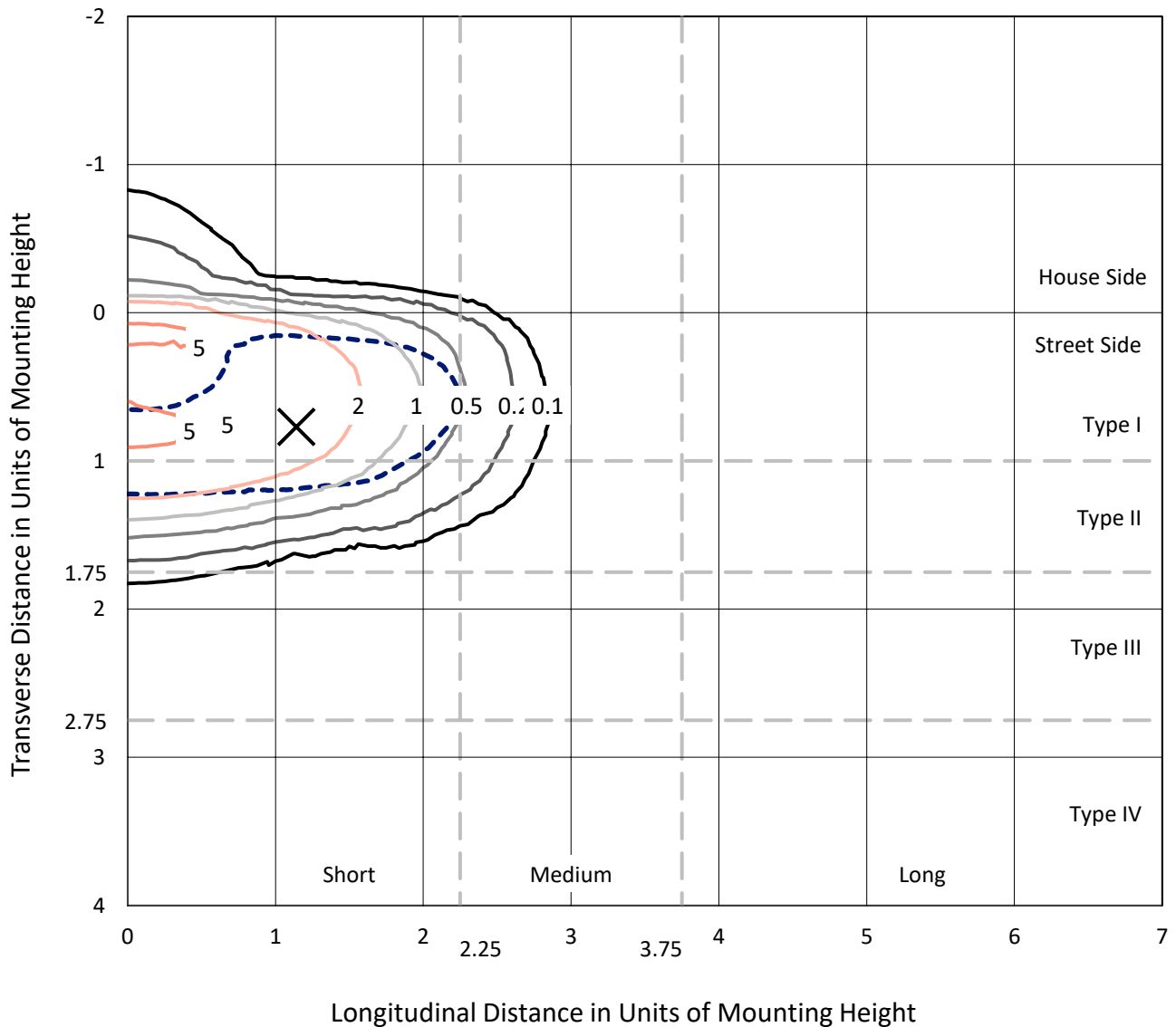
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

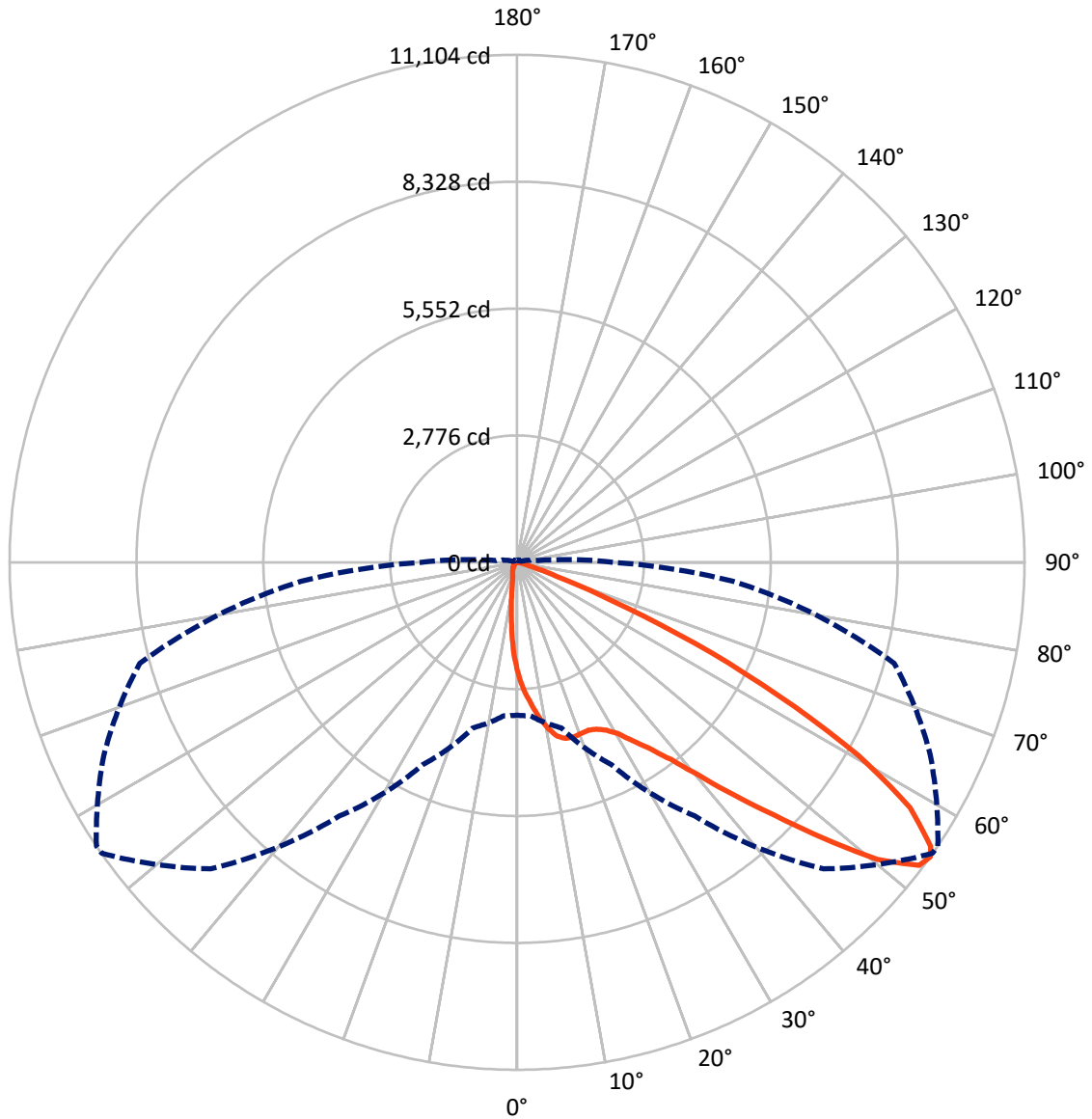
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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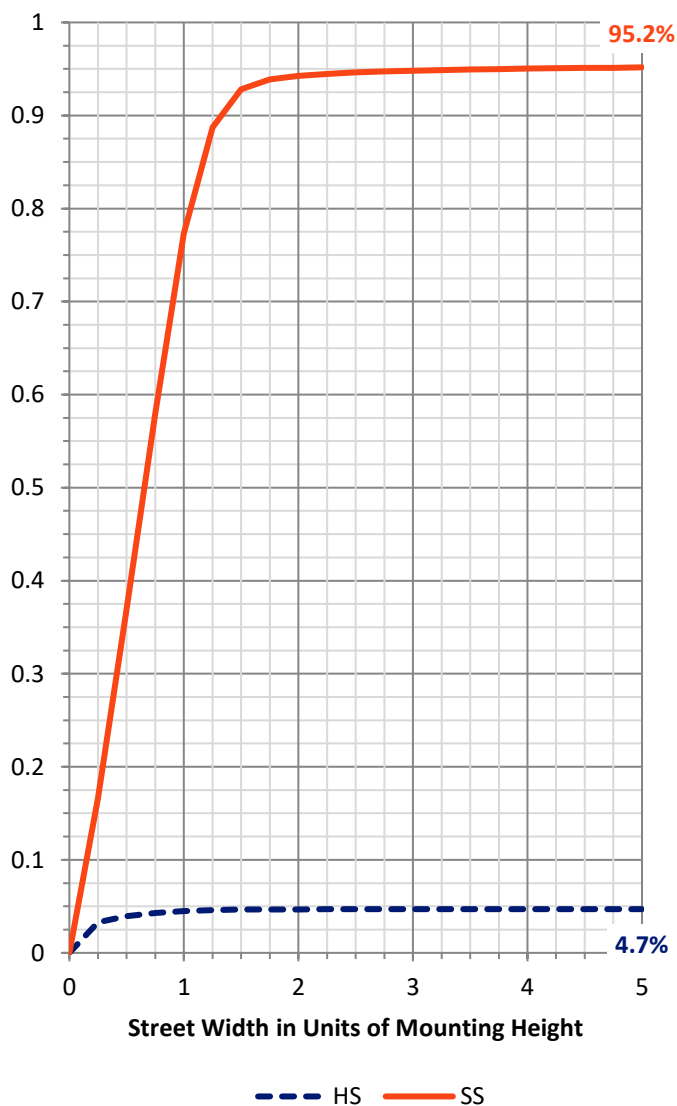
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	515.3	0.0	515.3
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	10381.7	0.0	10381.7
	% Fixture	95.3	0.0	95.3
Total	Lumens	10897.0	0.0	10897.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	213.9	2.0
10°-20°	578.3	5.3
20°-30°	1001.6	9.2
30°-40°	1729.0	15.9
40°-50°	2942.8	27.0
50°-60°	2912.2	26.7
60°-70°	1329.2	12.2
70°-80°	170.7	1.6
80°-90°	19.2	0.2
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°	10897.0	100.0
0°-180°	10897.0	100.0

Coefficient of Utilization



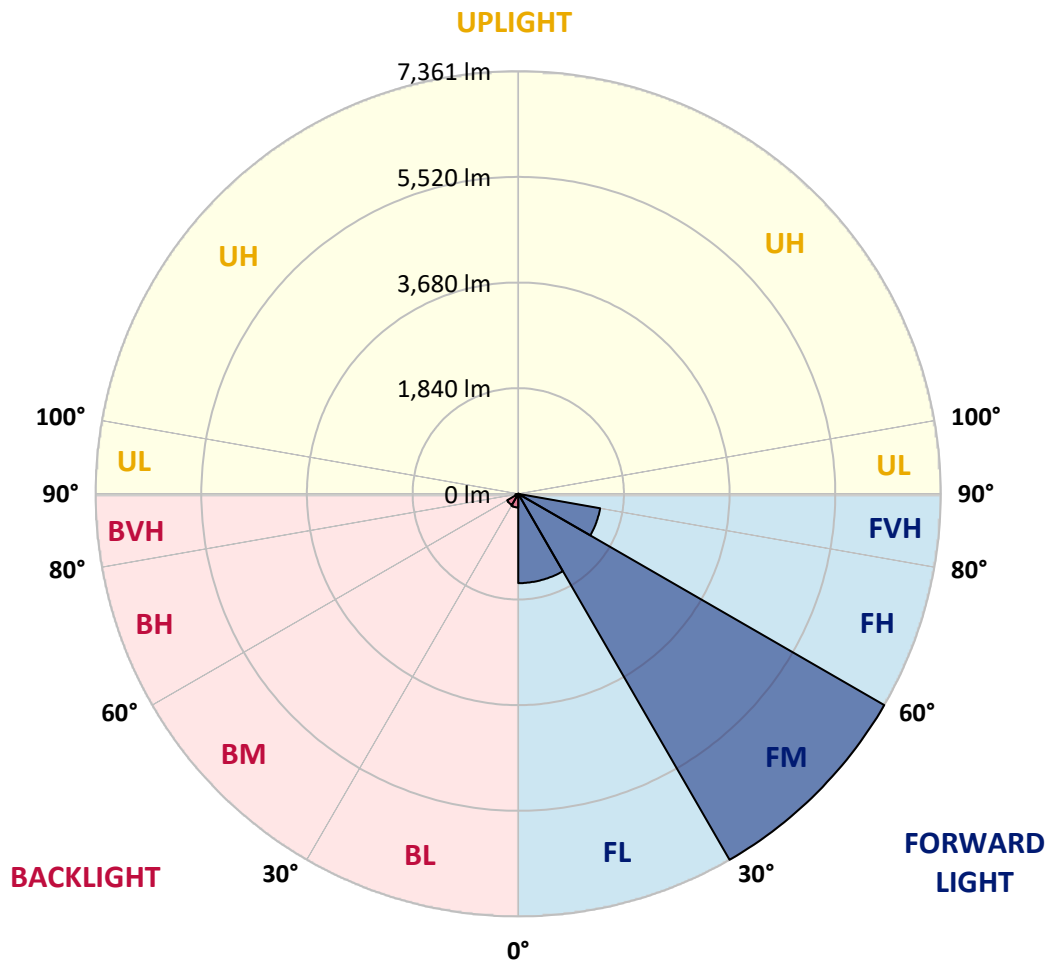
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1555.6	14.3			
FM (30°-60°)	7360.7	67.5			
FH (60°-80°)	1448.3	13.3			G1/1800
FVH (80°-90°)	17.2	0.2			G1/100
BL (0°-30°)	238.3	2.2	B1/500		
BM (30°-60°)	223.3	2.0	B1/1000		
BH (60°-80°)	51.6	0.5	B0/110		G0/110
BVH (80°-90°)	2.1	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°	56°	65°	75°	85°
0°	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0
2.5°	3076.8	3055.5	3026.1	3003.3	2949.6	2872.4	2790.8	2790.8	2712.2	2602.6	2490.9
5°	3548.8	3534.9	3506.1	3447.3	3387.0	3279.0	3115.0	3086.4	2946.0	2747.5	2538.6
7.5°	3740.7	3747.3	3748.8	3733.3	3704.7	3598.0	3435.6	3415.8	3191.5	2925.4	2601.1
10°	3556.9	3589.2	3620.8	3684.8	3775.2	3801.0	3709.1	3688.5	3467.9	3105.5	2668.8
12.5°	3283.4	3301.0	3318.7	3419.4	3601.0	3809.1	3905.4	3904.7	3717.9	3284.8	2754.8
15°	3156.2	3171.6	3173.1	3218.0	3375.3	3678.2	3989.2	4000.2	3962.0	3506.1	2847.4
17.5°	3182.7	3195.2	3184.9	3195.9	3278.3	3534.1	3979.6	4016.4	4159.8	3718.6	2931.2
20°	3355.5	3379.7	3340.0	3309.1	3334.1	3495.9	3947.3	3998.7	4299.5	3926.0	3007.7
22.5°	3665.7	3678.9	3628.9	3544.4	3500.2	3576.0	3938.4	3989.2	4418.5	4095.8	3051.8
25°	4010.5	4006.1	3950.9	3856.1	3763.5	3737.7	3996.5	4042.1	4517.0	4248.7	3065.1
27.5°	4355.3	4368.5	4275.9	4158.3	4047.2	3980.4	4126.6	4160.5	4628.1	4422.9	3081.2
30°	4756.0	4734.6	4643.5	4509.0	4381.7	4288.4	4336.2	4345.7	4781.0	4653.8	3123.9
32.5°	5277.3	5218.5	5116.2	4881.0	4789.8	4631.8	4643.5	4655.2	4967.0	4882.5	3175.3
35°	5984.5	5981.6	5781.6	5464.7	5242.7	5046.4	4994.9	5004.5	5248.6	5222.1	3289.3
37.5°	6835.8	6847.6	6619.7	6300.6	5891.8	5580.1	5474.3	5475.8	5676.4	5691.2	3462.7
40°	7529.2	7560.0	7424.0	7208.6	6805.0	6317.6	6139.7	6123.5	6277.9	6259.5	3710.6
42.5°	7827.7	7856.3	7907.0	7982.1	7760.0	7357.9	6938.1	6960.1	7007.1	6878.5	3988.4
45°	7681.3	7726.9	7926.2	8389.3	8598.1	8462.8	7962.2	7885.0	7685.8	7551.2	4267.8
47.5°	7071.8	7182.9	7515.9	8287.1	9017.9	9475.2	9117.9	9015.7	8365.1	8042.3	4445.7
50°	6069.8	6076.4	6540.3	7526.2	8800.3	10114.1	10297.9	10221.4	8998.1	8318.0	4535.4
52.5°	4400.1	4545.0	4969.9	6111.7	7857.8	10017.1	11050.0	11018.4	9650.9	8459.1	4664.8
54°	3345.1	3373.1	3751.0	4883.9	6774.8	9484.0	11096.3	11103.6	9975.2	8544.5	4741.3
55°	2742.3	2675.4	3072.4	4160.5	6036.0	9012.8	10944.9	10980.2	10120.7	8588.6	4797.9
57.5°	1299.9	1300.6	1604.2	2194.6	3780.4	6998.4	10019.3	10144.2	10136.9	8664.3	4972.1
60°	658.0	662.4	729.3	1013.1	1867.4	4652.4	8284.2	8581.9	9356.8	8675.3	5029.4
62.5°	460.2	455.1	444.0	487.4	785.9	2364.4	6167.5	6426.3	7949.6	8255.6	4847.2
65°	394.1	383.0	352.2	345.5	397.0	941.8	3841.4	4263.4	6069.8	7148.3	4328.1
67.5°	336.7	332.3	304.4	287.4	280.9	410.2	1982.1	2204.1	4148.7	5138.3	3278.3
70°	286.0	283.8	266.8	245.5	227.1	245.5	735.2	910.9	2312.2	2766.6	1546.8
72.5°	232.3	234.5	237.5	210.2	191.1	174.2	313.9	365.4	967.6	988.9	541.1
75°	203.7	201.5	201.5	183.1	159.6	129.4	172.8	186.0	296.3	275.0	125.7
77.5°	143.4	138.2	161.8	150.7	133.0	91.9	98.5	104.4	122.8	105.2	58.8
80°	99.3	99.3	103.7	135.3	119.8	66.9	60.3	64.7	72.8	62.5	33.8
82.5°	55.9	57.3	67.7	72.0	69.8	44.9	39.7	40.4	48.5	42.7	21.3
85°	6.7	11.0	39.0	38.2	28.7	19.9	22.1	22.8	30.1	26.5	12.5
87.5°	0.7	1.5	8.1	10.3	7.4	8.1	8.1	8.1	10.3	11.7	8.8
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°	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0	2421.0
2.5°	2430.6	2374.7	2241.7	2087.2	1988.7	1828.5	1693.2	1595.4	1571.1	1524.0	1538.0
5°	2427.6	2311.5	2040.2	1753.5	1447.6	1219.7	1049.8	916.0	857.2	818.2	791.1
7.5°	2429.1	2247.5	1812.3	1355.7	990.3	766.8	609.5	527.9	473.5	450.7	453.6
10°	2433.5	2175.4	1547.6	1004.3	668.3	495.6	399.2	360.3	341.9	339.0	338.2
12.5°	2443.8	2096.8	1294.7	745.5	467.6	360.3	323.5	310.2	304.4	304.4	302.2
15°	2454.8	2010.0	1084.4	554.4	360.3	309.5	292.6	286.0	282.3	282.3	281.6
17.5°	2454.8	1910.1	888.1	430.1	310.2	284.5	271.3	262.5	259.5	259.5	258.8
20°	2439.4	1793.9	713.9	346.2	281.6	261.0	247.7	238.2	234.5	233.0	232.3
22.5°	2385.7	1638.7	568.3	297.8	258.1	240.4	223.5	212.5	209.5	208.0	208.8
25°	2290.1	1463.7	449.9	261.8	236.7	215.4	200.7	192.6	189.6	189.6	190.4
27.5°	2191.6	1280.7	356.6	234.5	211.0	191.9	180.1	175.0	174.2	176.4	177.2
30°	2100.5	1096.9	288.9	212.5	188.2	172.0	164.0	162.5	162.5	163.2	164.0
32.5°	1999.0	935.9	241.9	193.3	169.8	155.9	151.4	151.4	152.9	152.9	154.4
35°	1935.0	797.7	212.5	175.0	155.9	144.1	141.2	141.9	144.1	147.0	148.5
37.5°	1900.5	687.4	193.3	160.3	142.7	134.5	131.6	133.0	138.2	143.4	144.1
40°	1903.4	604.3	177.9	147.8	132.3	123.5	121.3	125.7	130.8	136.0	136.7
42.5°	1935.8	542.5	163.2	133.0	123.5	111.0	110.2	114.7	116.9	122.1	122.8
45°	1974.0	497.8	147.8	117.6	107.3	96.3	97.0	100.7	103.7	111.7	113.2
47.5°	1985.8	466.8	130.1	100.0	88.2	84.6	85.3	87.5	93.3	100.7	101.5
50°	1999.0	447.7	113.2	84.6	75.0	74.2	75.0	76.5	80.1	83.1	82.4
52.5°	2055.6	447.0	99.3	73.5	64.0	65.5	66.2	65.5	62.5	58.1	56.6
54°	2108.5	449.2	92.6	68.4	58.8	61.0	60.3	56.6	49.3	44.9	42.7
55°	2151.2	451.4	88.9	64.7	55.9	56.6	57.3	50.0	40.4	36.0	34.5
57.5°	2235.0	446.2	80.1	56.6	49.3	46.4	45.6	33.1	22.1	19.1	17.6
60°	2193.1	402.9	72.8	48.5	41.9	37.5	30.9	18.4	11.0	8.1	8.1
62.5°	2028.4	341.9	64.7	39.7	34.5	28.7	16.2	10.3	5.2	3.0	2.2
65°	1814.4	287.4	58.1	31.6	27.2	18.4	8.8	6.7	2.2	0.0	0.0
67.5°	1349.1	213.2	49.3	25.0	20.6	11.7	5.9	3.7	0.7	0.0	0.0
70°	624.9	130.1	41.9	19.1	14.7	8.8	4.4	2.2	0.0	0.0	0.0
72.5°	179.4	81.6	34.5	13.9	10.3	7.4	3.7	1.5	0.7	0.0	0.0
75°	62.5	65.5	25.8	10.3	8.1	5.2	3.0	1.5	0.7	0.0	0.0
77.5°	37.5	52.9	16.2	8.8	6.7	4.4	3.0	1.5	0.7	0.7	0.0
80°	21.3	35.3	10.3	7.4	5.9	3.7	2.2	1.5	0.7	0.7	0.0
82.5°	11.7	16.9	8.1	6.7	5.2	3.7	2.2	1.5	0.7	0.7	0.7
85°	9.6	8.8	6.7	5.9	4.4	3.0	2.2	0.7	0.0	0.0	0.0
87.5°	7.4	5.9	5.9	5.9	4.4	3.0	2.2	0.7	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)