

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: P453934

Luminaire Tested: **GALN-SA5A-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453934
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-SA5A-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 615mA 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: 17088 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

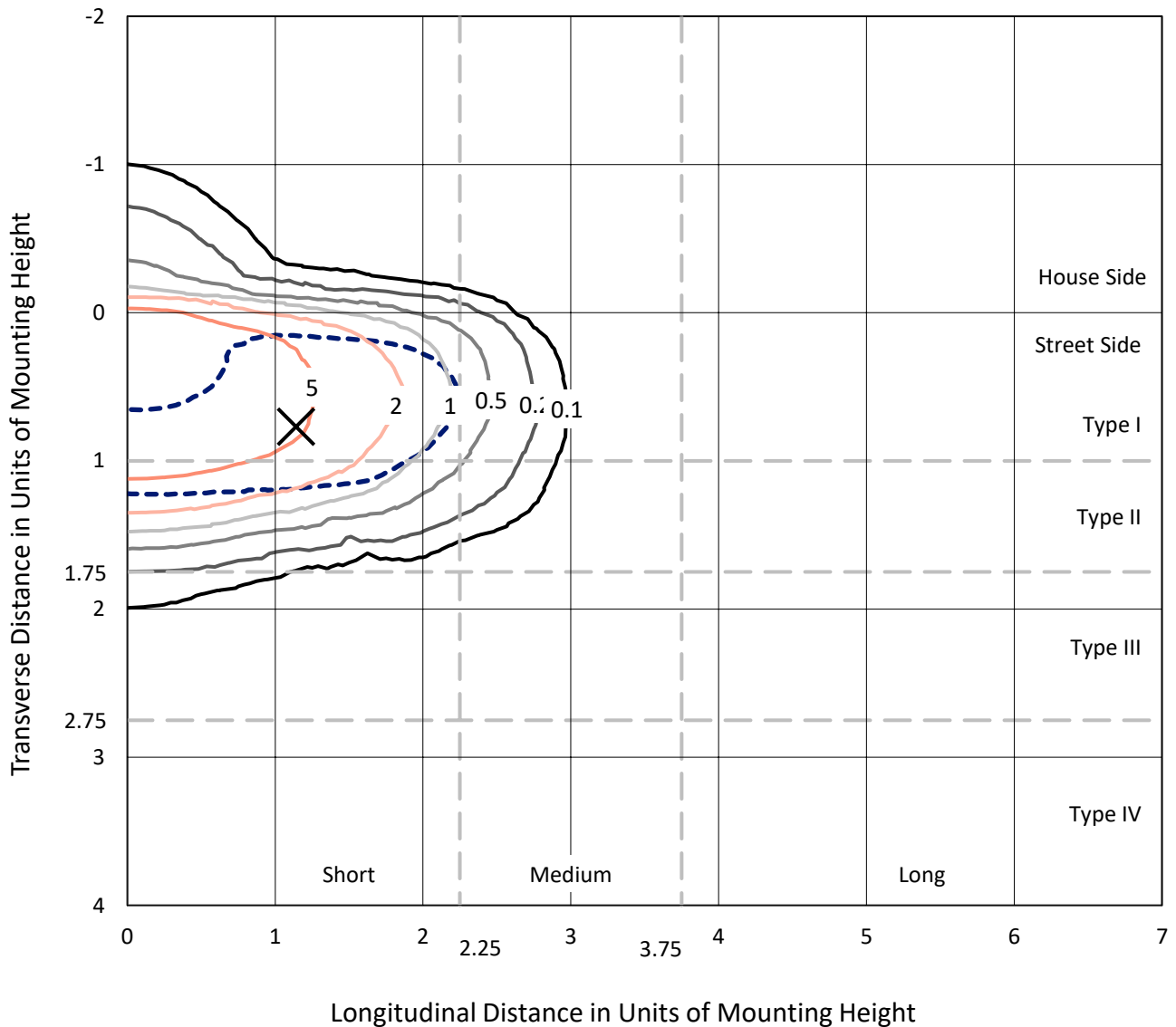
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

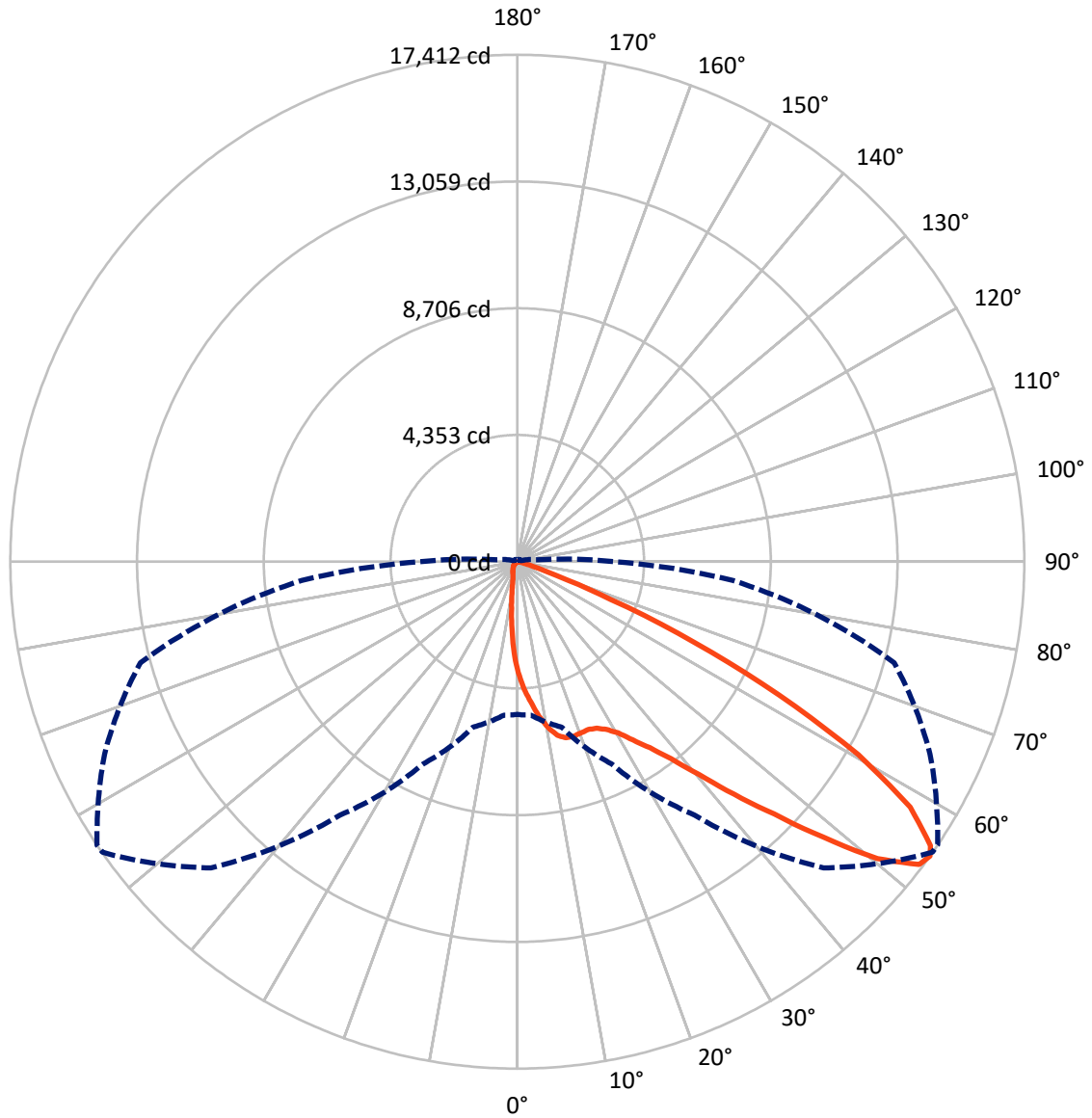
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 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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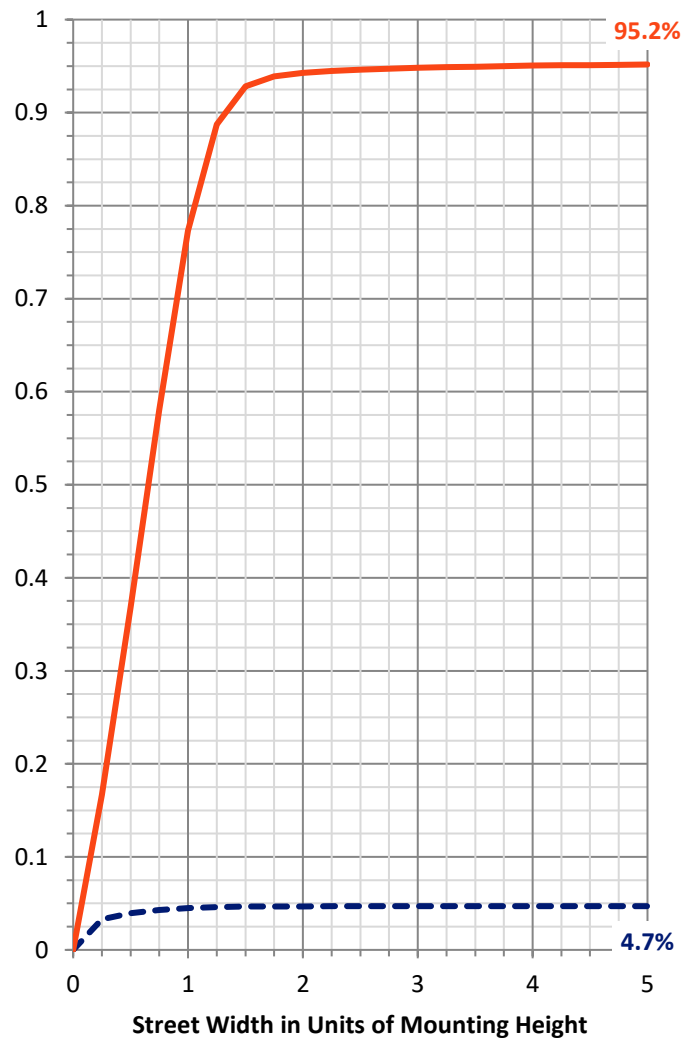
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	808.1	0.0	808.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	16279.9	0.0	16279.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	17088.0	0.0	17088.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	335.5	2.0
10°-20°	906.9	5.3
20°-30°	1570.7	9.2
30°-40°	2711.3	15.9
40°-50°	4614.7	27.0
50°-60°	4566.8	26.7
60°-70°	2084.4	12.2
70°-80°	267.7	1.6
80°-90°	30.2	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°	17088.0	100.0
0°-180°	17088.0	100.0



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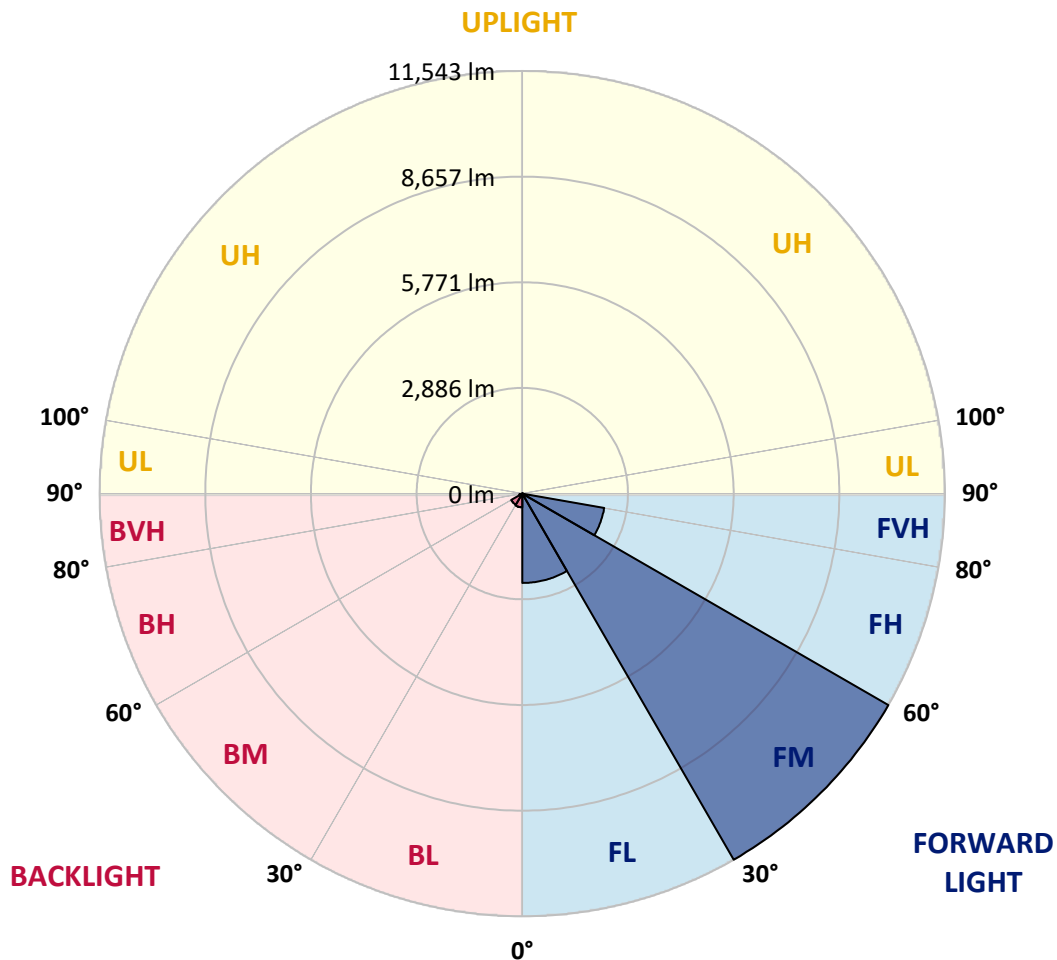
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2439.4	14.3			
FM (30°-60°)	11542.5	67.5			
FH (60°-80°)	2271.1	13.3			G2/5000
FVH (80°-90°)	26.9	0.2			G1/100
BL (0°-30°)	373.7	2.2	B1/500		
BM (30°-60°)	350.2	2.0	B1/1000		
BH (60°-80°)	80.9	0.5	B0/110		G0/110
BVH (80°-90°)	3.2	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	3796.5	3796.5	3796.5	3796.5	3796.5	3796.5	3796.5	3796.5	3796.5	3796.5	3796.5
2.5°	4824.8	4791.4	4745.3	4709.6	4625.4	4504.3	4376.4	4376.4	4253.0	4081.2	3906.0
5°	5565.0	5543.1	5498.1	5405.9	5311.4	5141.9	4884.8	4839.8	4619.6	4308.3	3980.9
7.5°	5865.9	5876.3	5878.6	5854.4	5809.4	5642.2	5387.4	5356.3	5004.7	4587.3	4078.9
10°	5577.7	5628.4	5678.0	5778.3	5920.1	5960.4	5816.3	5784.0	5438.2	4869.8	4185.0
12.5°	5148.8	5176.5	5204.1	5362.1	5646.8	5973.1	6124.1	6123.0	5830.2	5151.1	4319.9
15°	4949.4	4973.6	4975.9	5046.2	5292.9	5767.9	6255.6	6272.9	6212.9	5498.1	4465.1
17.5°	4990.9	5010.5	4994.3	5011.6	5140.7	5541.9	6240.6	6298.2	6523.0	5831.3	4596.6
20°	5261.8	5299.8	5237.6	5189.2	5228.4	5482.0	6189.9	6270.6	6742.1	6156.4	4716.5
22.5°	5748.3	5769.1	5690.7	5558.1	5488.9	5607.7	6176.0	6255.6	6928.9	6422.7	4785.6
25°	6289.0	6282.1	6195.6	6046.9	5901.6	5861.3	6267.1	6338.6	7083.3	6662.5	4806.4
27.5°	6829.7	6850.5	6705.2	6520.7	6346.7	6241.7	6471.2	6524.2	7257.4	6935.8	4831.8
30°	7458.0	7424.6	7281.6	7070.7	6871.2	6724.8	6799.7	6814.7	7497.2	7297.8	4898.6
32.5°	8275.4	8183.2	8023.0	7654.0	7511.1	7263.2	7281.6	7300.1	7788.9	7656.3	4979.3
35°	9384.5	9379.9	9066.3	8569.4	8221.2	7913.4	7832.7	7847.7	8230.5	8189.0	5158.0
37.5°	10719.6	10738.0	10380.6	9880.3	9239.2	8750.4	8584.4	8586.7	8901.5	8924.5	5430.1
40°	11806.7	11855.2	11641.9	11304.1	10671.1	9906.8	9627.8	9602.4	9844.5	9815.7	5818.6
42.5°	12274.8	12319.8	12399.3	12516.9	12168.7	11538.1	10879.8	10914.4	10988.2	10786.4	6254.4
45°	12045.4	12116.9	12429.3	13155.6	13483.0	13270.9	12485.8	12364.7	12052.3	11841.3	6692.5
47.5°	11089.6	11263.7	11786.0	12995.4	14141.3	14858.4	14298.1	14137.9	13117.6	12611.4	6971.5
50°	9518.2	9528.6	10256.1	11802.1	13800.1	15860.3	16148.5	16028.6	14110.2	13043.8	7112.2
52.5°	6900.0	7127.2	7793.5	9584.0	12322.1	15708.1	17327.9	17278.3	15134.0	13265.1	7315.1
54°	5245.6	5289.5	5882.0	7658.6	10623.9	14872.3	17400.5	17412.1	15642.4	13398.9	7435.0
55°	4300.3	4195.4	4817.9	6524.2	9465.2	14133.3	17163.1	17218.4	15870.7	13468.0	7523.8
57.5°	2038.3	2039.5	2515.6	3441.4	5928.2	10974.3	15711.6	15907.6	15896.0	13586.8	7797.0
60°	1031.8	1038.8	1143.7	1588.7	2928.3	7295.5	12990.7	13457.7	14672.8	13604.1	7886.9
62.5°	721.7	713.6	696.3	764.4	1232.4	3707.7	9671.6	10077.4	12466.2	12945.8	7601.0
65°	617.9	600.7	552.2	541.9	622.6	1476.9	6023.8	6685.6	9518.2	11209.5	6787.1
67.5°	528.0	521.1	477.3	450.8	440.4	643.3	3108.2	3456.4	6505.8	8057.5	5140.7
70°	448.5	445.0	418.5	385.1	356.2	385.1	1152.9	1428.4	3625.8	4338.3	2425.7
72.5°	364.3	367.8	372.4	329.7	299.8	273.2	492.3	573.0	1517.2	1550.6	848.5
75°	319.4	315.9	315.9	287.1	250.2	202.9	270.9	291.7	464.6	431.2	197.1
77.5°	224.8	216.7	253.6	236.3	208.7	144.1	154.5	163.7	192.5	164.9	92.2
80°	155.6	155.6	162.6	212.1	187.9	104.9	94.5	101.5	114.1	98.0	53.0
82.5°	87.6	89.9	106.1	113.0	109.5	70.3	62.3	63.4	76.1	66.9	33.4
85°	10.4	17.3	61.1	60.0	45.0	31.1	34.6	35.7	47.3	41.5	19.6
87.5°	1.2	2.3	12.7	16.1	11.5	12.7	12.7	12.7	16.1	18.4	13.8
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°	3796.5	3796.5	3796.5	3796.5	3796.5	3796.5	3796.5	3796.5	3796.5	3796.5	3796.5
2.5°	3811.4	3723.8	3515.2	3273.1	3118.6	2867.2	2655.1	2501.8	2463.7	2389.9	2411.8
5°	3806.8	3624.7	3199.3	2749.6	2270.0	1912.6	1646.3	1436.5	1344.3	1283.2	1240.5
7.5°	3809.1	3524.4	2841.9	2125.9	1552.9	1202.5	955.7	827.8	742.5	706.7	711.3
10°	3816.1	3411.4	2426.8	1574.8	1048.0	777.0	626.0	564.9	536.1	531.5	530.3
12.5°	3832.2	3288.0	2030.2	1169.0	733.2	564.9	507.3	486.5	477.3	477.3	473.8
15°	3849.5	3152.0	1700.5	869.3	564.9	485.4	458.8	448.5	442.7	442.7	441.6
17.5°	3849.5	2995.2	1392.7	674.4	486.5	446.2	425.4	411.6	407.0	407.0	405.8
20°	3825.3	2813.0	1119.5	543.0	441.6	409.3	388.5	373.5	367.8	365.5	364.3
22.5°	3741.1	2569.8	891.2	466.9	404.7	377.0	350.5	333.2	328.6	326.3	327.4
25°	3591.2	2295.4	705.6	410.4	371.2	337.8	314.7	302.1	297.4	297.4	298.6
27.5°	3436.8	2008.3	559.2	367.8	330.9	300.9	282.5	274.4	273.2	276.7	277.8
30°	3293.8	1720.1	453.1	333.2	295.1	269.8	257.1	254.8	254.8	255.9	257.1
32.5°	3134.7	1467.6	379.3	303.2	266.3	244.4	237.5	237.5	239.8	239.8	242.1
35°	3034.4	1250.9	333.2	274.4	244.4	226.0	221.4	222.5	226.0	230.6	232.9
37.5°	2980.2	1078.0	303.2	251.3	223.7	211.0	206.4	208.7	216.7	224.8	226.0
40°	2984.8	947.7	279.0	231.7	207.5	193.7	190.2	197.1	205.2	213.3	214.4
42.5°	3035.6	850.8	255.9	208.7	193.7	174.1	172.9	179.9	183.3	191.4	192.5
45°	3095.5	780.5	231.7	184.5	168.3	151.0	152.2	157.9	162.6	175.2	177.5
47.5°	3114.0	732.1	204.1	156.8	138.3	132.6	133.7	137.2	146.4	157.9	159.1
50°	3134.7	702.1	177.5	132.6	117.6	116.4	117.6	119.9	125.7	130.3	129.1
52.5°	3223.5	701.0	155.6	115.3	100.3	102.6	103.8	102.6	98.0	91.1	88.8
54°	3306.5	704.4	145.3	107.2	92.2	95.7	94.5	88.8	77.2	70.3	66.9
55°	3373.4	707.9	139.5	101.5	87.6	88.8	89.9	78.4	63.4	56.5	54.2
57.5°	3504.8	699.8	125.7	88.8	77.2	72.6	71.5	51.9	34.6	30.0	27.7
60°	3439.1	631.8	114.1	76.1	65.7	58.8	48.4	28.8	17.3	12.7	12.7
62.5°	3180.8	536.1	101.5	62.3	54.2	45.0	25.4	16.1	8.1	4.6	3.5
65°	2845.3	450.8	91.1	49.6	42.7	28.8	13.8	10.4	3.5	0.0	0.0
67.5°	2115.6	334.3	77.2	39.2	32.3	18.4	9.2	5.8	1.2	0.0	0.0
70°	980.0	204.1	65.7	30.0	23.1	13.8	6.9	3.5	0.0	0.0	0.0
72.5°	281.3	128.0	54.2	21.9	16.1	11.5	5.8	2.3	1.2	0.0	0.0
75°	98.0	102.6	40.4	16.1	12.7	8.1	4.6	2.3	1.2	0.0	0.0
77.5°	58.8	83.0	25.4	13.8	10.4	6.9	4.6	2.3	1.2	1.2	0.0
80°	33.4	55.3	16.1	11.5	9.2	5.8	3.5	2.3	1.2	1.2	0.0
82.5°	18.4	26.5	12.7	10.4	8.1	5.8	3.5	2.3	1.2	1.2	1.2
85°	15.0	13.8	10.4	9.2	6.9	4.6	3.5	1.2	0.0	0.0	0.0
87.5°	11.5	9.2	9.2	9.2	6.9	4.6	3.5	1.2	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)