

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: P456718

Luminaire Tested: **GALN-SA8A-730-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456718
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-SA8A-730-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 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: 27554 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

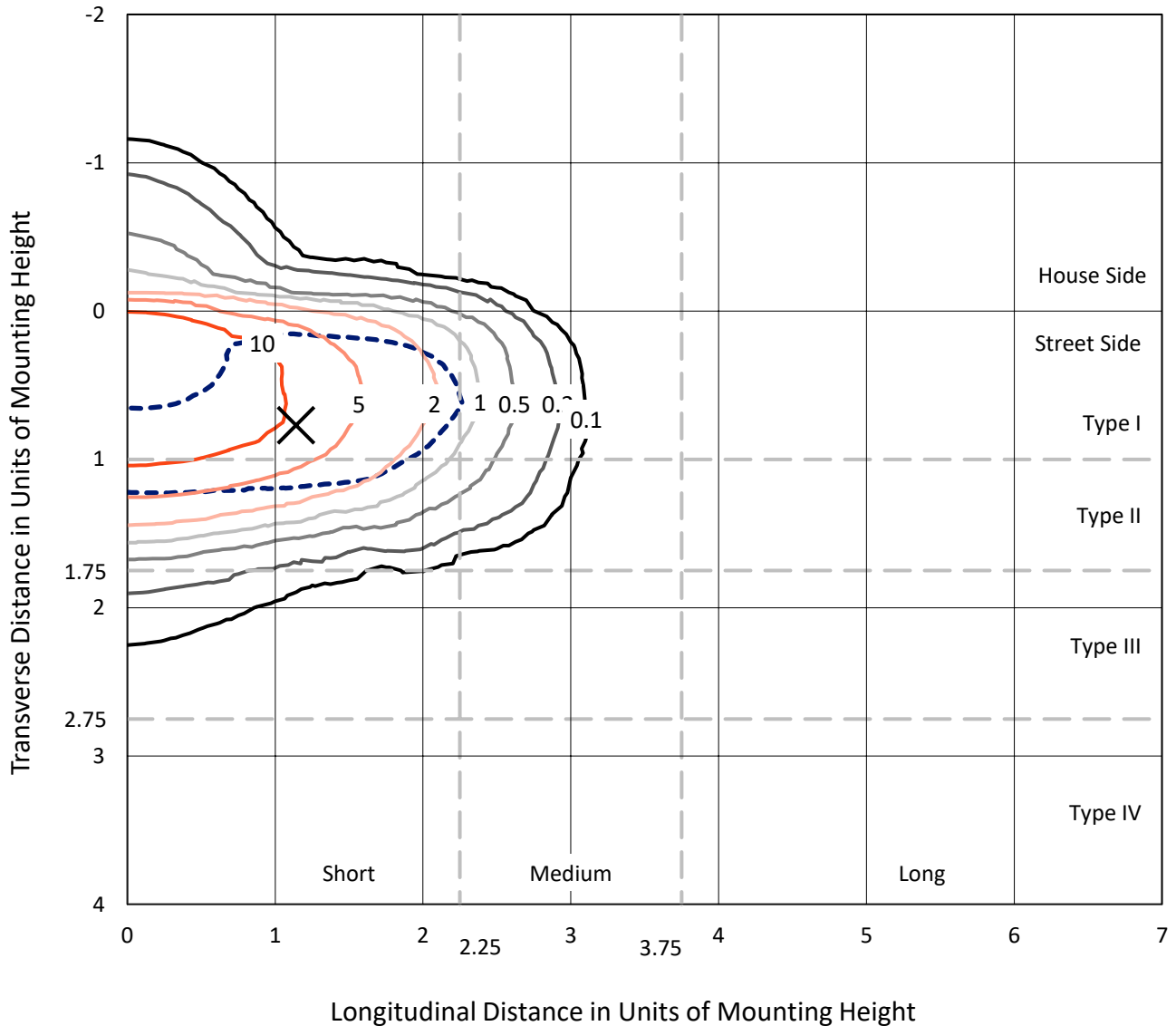
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

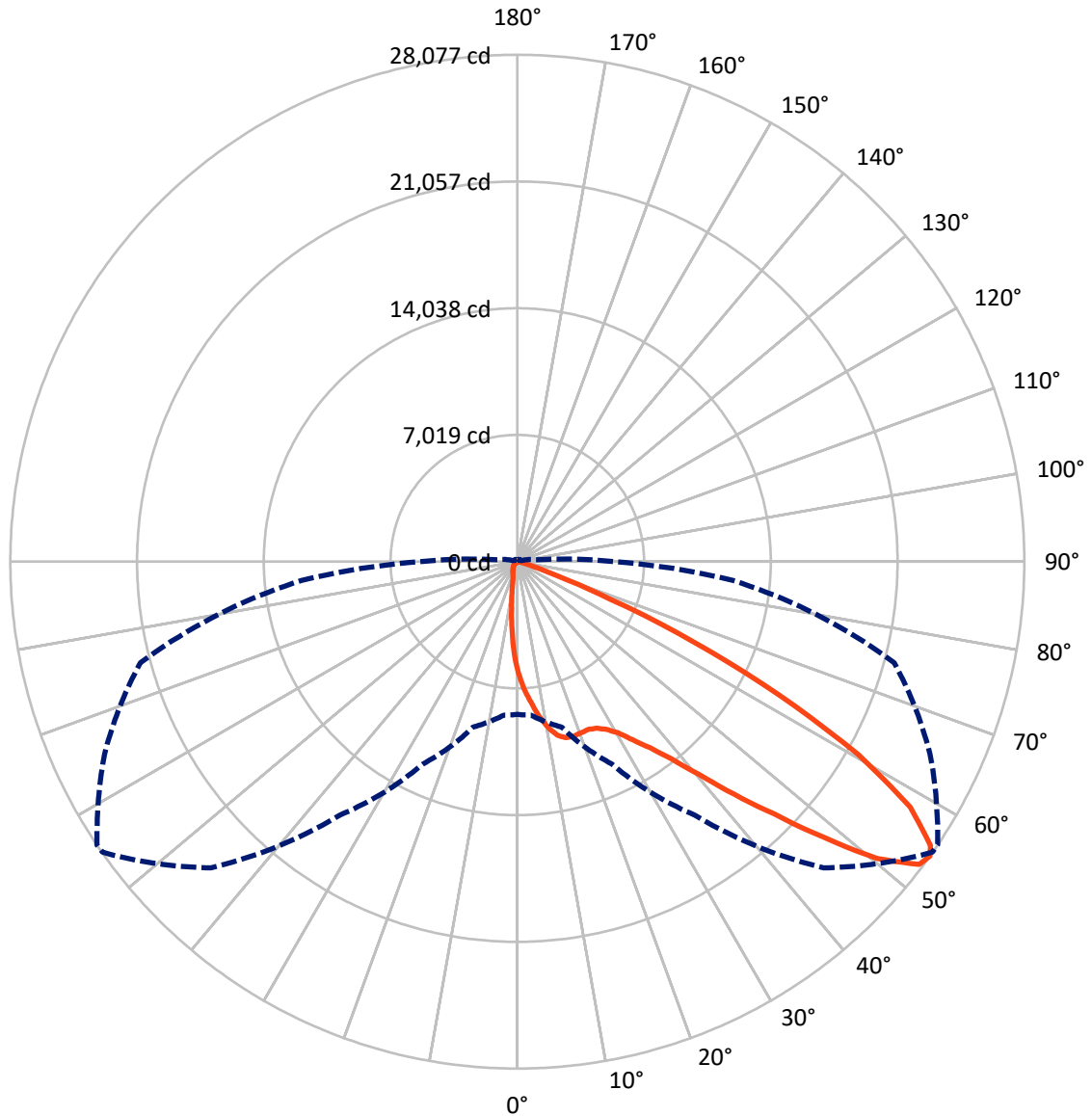
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.7 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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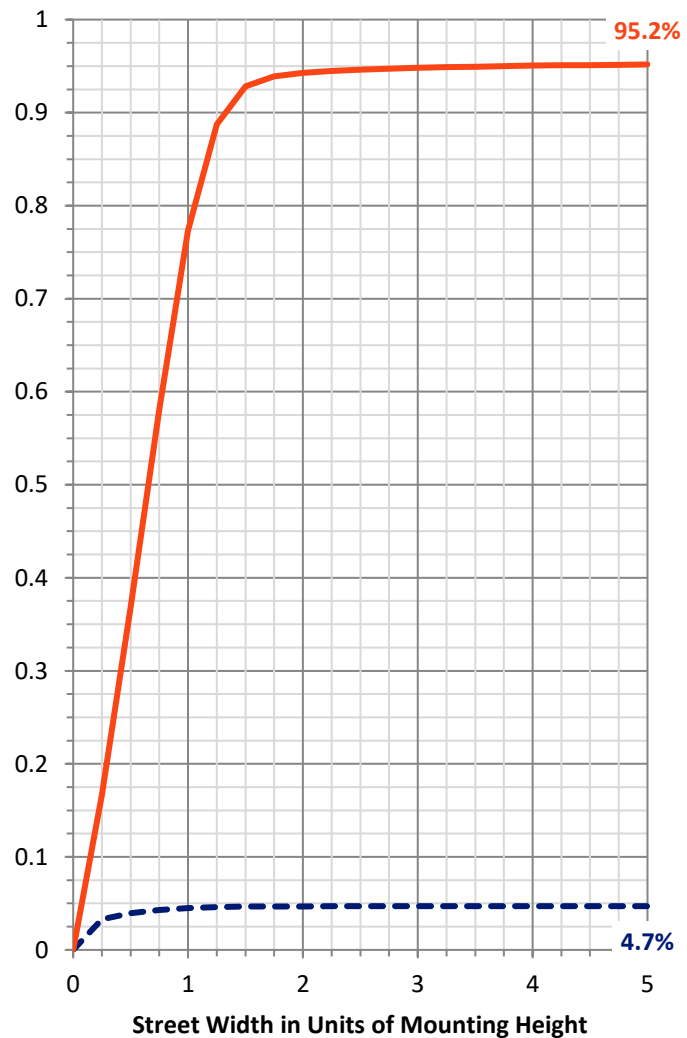
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1303.0	0.0	1303.0
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	26251.0	0.0	26251.0
	% Fixture	95.3	0.0	95.3
Total	Lumens	27554.0	0.0	27554.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	540.9	2.0
10°-20°	1462.4	5.3
20°-30°	2532.7	9.2
30°-40°	4371.8	15.9
40°-50°	7441.0	27.0
50°-60°	7363.8	26.7
60°-70°	3361.0	12.2
70°-80°	431.6	1.6
80°-90°	48.6	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°	27554.0	100.0
0°-180°	27554.0	100.0



--- HS — SS

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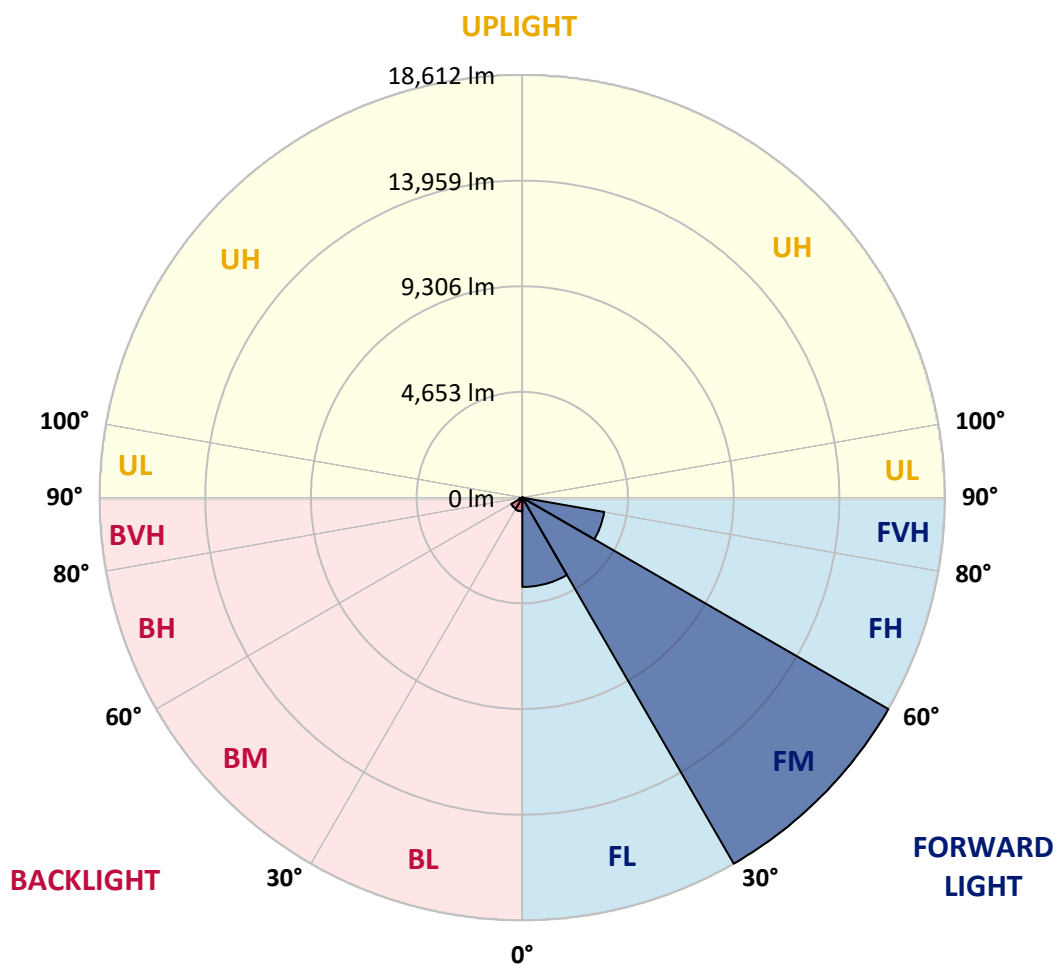
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3933.4	14.3			
FM	(30°-60°)	18612.0	67.5			
FH	(60°-80°)	3662.2	13.3			G2/5000
FVH	(80°-90°)	43.4	0.2			G1/100
BL	(0°-30°)	602.6	2.2	B2/1000		
BM	(30°-60°)	564.7	2.0	B1/1000		
BH	(60°-80°)	130.5	0.5	B1/500		G1/500
BVH	(80°-90°)	5.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7
2.5°	7779.9	7726.0	7651.7	7594.0	7458.3	7263.1	7056.8	7056.8	6857.9	6580.9	6298.3
5°	8973.4	8938.1	8865.6	8716.9	8564.4	8291.2	7876.6	7804.1	7449.0	6947.1	6419.1
7.5°	9458.6	9475.4	9479.1	9440.0	9367.5	9098.0	8687.1	8636.9	8069.9	7397.0	6577.2
10°	8993.9	9075.7	9155.6	9317.3	9546.0	9611.1	9378.7	9326.6	8768.9	7852.4	6748.2
12.5°	8302.3	8346.9	8391.6	8646.2	9105.4	9631.5	9875.0	9873.2	9401.0	8306.0	6965.7
15°	7980.7	8019.8	8023.5	8136.9	8534.7	9300.6	10087.0	10114.9	10018.2	8865.6	7199.9
17.5°	8047.6	8079.2	8053.2	8081.1	8289.3	8936.2	10062.8	10155.7	10518.3	9402.9	7411.9
20°	8484.5	8545.9	8445.5	8367.4	8430.6	8839.6	9981.0	10111.1	10871.5	9927.1	7605.2
22.5°	9269.0	9302.5	9176.1	8962.3	8850.7	9042.2	9958.7	10087.0	11172.6	10356.5	7716.7
25°	10140.9	10129.7	9990.3	9750.5	9516.3	9451.2	10105.6	10220.8	11421.7	10743.2	7750.2
27.5°	11012.8	11046.2	10812.0	10514.5	10233.8	10064.7	10434.6	10520.1	11702.4	11183.8	7791.1
30°	12025.9	11972.0	11741.5	11401.3	11079.7	10843.6	10964.4	10988.6	12089.1	11767.5	7898.9
32.5°	13343.9	13195.2	12936.8	12341.9	12111.4	11711.7	11741.5	11771.2	12559.4	12345.7	8029.0
35°	15132.3	15124.9	14619.2	13818.0	13256.6	12760.2	12630.1	12654.3	13271.4	13204.5	8317.2
37.5°	17285.0	17314.8	16738.5	15931.7	14898.1	14109.9	13842.2	13845.9	14353.4	14390.6	8755.9
40°	19038.1	19116.2	18772.2	18227.6	17207.0	15974.4	15524.6	15483.7	15874.1	15827.6	9382.4
42.5°	19792.8	19865.3	19993.6	20183.2	19621.8	18604.9	17543.4	17599.2	17718.2	17392.9	10085.1
45°	19422.9	19538.2	20041.9	21213.1	21741.1	21399.0	20133.0	19937.8	19434.0	19093.9	10791.5
47.5°	17881.8	18162.5	19004.6	20954.7	22802.6	23958.9	23055.4	22797.0	21151.8	20335.7	11241.4
50°	15348.0	15364.7	16537.7	19030.6	22252.3	25574.3	26039.1	25845.8	22752.4	21032.8	11468.2
52.5°	11126.2	11492.4	12566.9	15453.9	19869.1	25329.0	27940.9	27860.9	24403.2	21389.7	11795.4
54°	8458.5	8529.1	9484.6	12349.4	17130.7	23981.2	28058.0	28076.6	25223.0	21605.4	11988.7
55°	6934.1	6764.9	7768.8	10520.1	15262.4	22789.6	27675.0	27764.3	25591.1	21716.9	12131.9
57.5°	3286.7	3288.6	4056.4	5549.1	9559.0	17695.9	25334.5	25650.6	25632.0	21908.4	12572.5
60°	1663.8	1675.0	1844.1	2561.7	4721.9	11763.8	20947.3	21700.2	23659.6	21936.3	12717.5
62.5°	1163.7	1150.7	1122.8	1232.5	1987.3	5978.6	15595.2	16249.6	20101.4	20874.8	12256.4
65°	996.4	968.5	890.5	873.7	1003.9	2381.4	9713.3	10780.4	15348.0	18075.1	10944.0
67.5°	851.4	840.3	769.6	726.9	710.1	1037.3	5011.9	5573.3	10490.4	12992.6	8289.3
70°	723.2	717.6	674.8	620.9	574.4	620.9	1859.0	2303.3	5846.6	6995.4	3911.3
72.5°	587.4	593.0	600.5	531.7	483.3	440.6	793.8	923.9	2446.5	2500.4	1368.2
75°	514.9	509.4	509.4	462.9	403.4	327.2	436.9	470.3	749.2	695.3	317.9
77.5°	362.5	349.5	409.0	381.1	336.5	232.4	249.1	264.0	310.5	265.8	148.7
80°	251.0	251.0	262.1	342.1	303.0	169.2	152.4	163.6	184.0	158.0	85.5
82.5°	141.3	145.0	171.0	182.2	176.6	113.4	100.4	102.2	122.7	107.8	53.9
85°	16.7	27.9	98.5	96.7	72.5	50.2	55.8	57.6	76.2	66.9	31.6
87.5°	1.9	3.7	20.4	26.0	18.6	20.4	20.4	20.4	26.0	29.7	22.3
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°	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7	6121.7
2.5°	6145.9	6004.6	5668.1	5277.7	5028.6	4623.3	4281.3	4034.0	3972.7	3853.7	3889.0
5°	6138.4	5844.7	5158.7	4433.7	3660.4	3084.1	2654.7	2316.3	2167.6	2069.1	2000.3
7.5°	6142.2	5683.0	4582.4	3428.0	2504.1	1938.9	1541.1	1334.8	1197.2	1139.6	1147.0
10°	6153.3	5500.8	3913.2	2539.4	1689.8	1253.0	1009.4	910.9	864.4	857.0	855.1
12.5°	6179.3	5301.9	3273.7	1885.0	1182.3	910.9	818.0	784.5	769.6	769.6	764.1
15°	6207.2	5082.5	2742.0	1401.7	910.9	782.6	739.9	723.2	713.9	713.9	712.0
17.5°	6207.2	4829.7	2245.7	1087.5	784.5	719.4	686.0	663.7	656.2	656.2	654.4
20°	6168.2	4536.0	1805.1	875.6	712.0	659.9	626.5	602.3	593.0	589.3	587.4
22.5°	6032.5	4143.7	1437.0	752.9	652.5	607.9	565.1	537.3	529.8	526.1	528.0
25°	5790.8	3701.3	1137.7	661.8	598.6	544.7	507.5	487.1	479.6	479.6	481.5
27.5°	5541.7	3238.4	901.6	593.0	533.5	485.2	455.5	442.4	440.6	446.2	448.0
30°	5311.2	2773.6	730.6	537.3	475.9	435.0	414.6	410.8	410.8	412.7	414.6
32.5°	5054.6	2366.5	611.6	488.9	429.4	394.1	383.0	383.0	386.7	386.7	390.4
35°	4892.9	2017.0	537.3	442.4	394.1	364.4	356.9	358.8	364.4	371.8	375.5
37.5°	4805.5	1738.2	488.9	405.3	360.6	340.2	332.8	336.5	349.5	362.5	364.4
40°	4813.0	1528.1	449.9	373.7	334.6	312.3	306.7	317.9	330.9	343.9	345.8
42.5°	4894.8	1371.9	412.7	336.5	312.3	280.7	278.9	290.0	295.6	308.6	310.5
45°	4991.4	1258.5	373.7	297.4	271.4	243.5	245.4	254.7	262.1	282.6	286.3
47.5°	5021.2	1180.5	329.0	252.8	223.1	213.8	215.6	221.2	236.1	254.7	256.5
50°	5054.6	1132.1	286.3	213.8	189.6	187.8	189.6	193.3	202.6	210.1	208.2
52.5°	5197.8	1130.3	251.0	185.9	161.7	165.5	167.3	165.5	158.0	146.9	143.1
54°	5331.6	1135.9	234.2	172.9	148.7	154.3	152.4	143.1	124.6	113.4	107.8
55°	5439.5	1141.4	224.9	163.6	141.3	143.1	145.0	126.4	102.2	91.1	87.4
57.5°	5651.4	1128.4	202.6	143.1	124.6	117.1	115.3	83.7	55.8	48.3	44.6
60°	5545.4	1018.7	184.0	122.7	106.0	94.8	78.1	46.5	27.9	20.4	20.4
62.5°	5129.0	864.4	163.6	100.4	87.4	72.5	40.9	26.0	13.0	7.4	5.6
65°	4588.0	726.9	146.9	79.9	68.8	46.5	22.3	16.7	5.6	0.0	0.0
67.5°	3411.3	539.1	124.6	63.2	52.1	29.7	14.9	9.3	1.9	0.0	0.0
70°	1580.2	329.0	106.0	48.3	37.2	22.3	11.2	5.6	0.0	0.0	0.0
72.5°	453.6	206.3	87.4	35.3	26.0	18.6	9.3	3.7	1.9	0.0	0.0
75°	158.0	165.5	65.1	26.0	20.4	13.0	7.4	3.7	1.9	0.0	0.0
77.5°	94.8	133.8	40.9	22.3	16.7	11.2	7.4	3.7	1.9	1.9	0.0
80°	53.9	89.2	26.0	18.6	14.9	9.3	5.6	3.7	1.9	1.9	0.0
82.5°	29.7	42.8	20.4	16.7	13.0	9.3	5.6	3.7	1.9	1.9	1.9
85°	24.2	22.3	16.7	14.9	11.2	7.4	5.6	1.9	0.0	0.0	0.0
87.5°	18.6	14.9	14.9	14.9	11.2	7.4	5.6	1.9	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)