

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: P459096

Luminaire Tested: **GALN-SA6A-735-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459096
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-SA6A-735-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 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: 20697 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

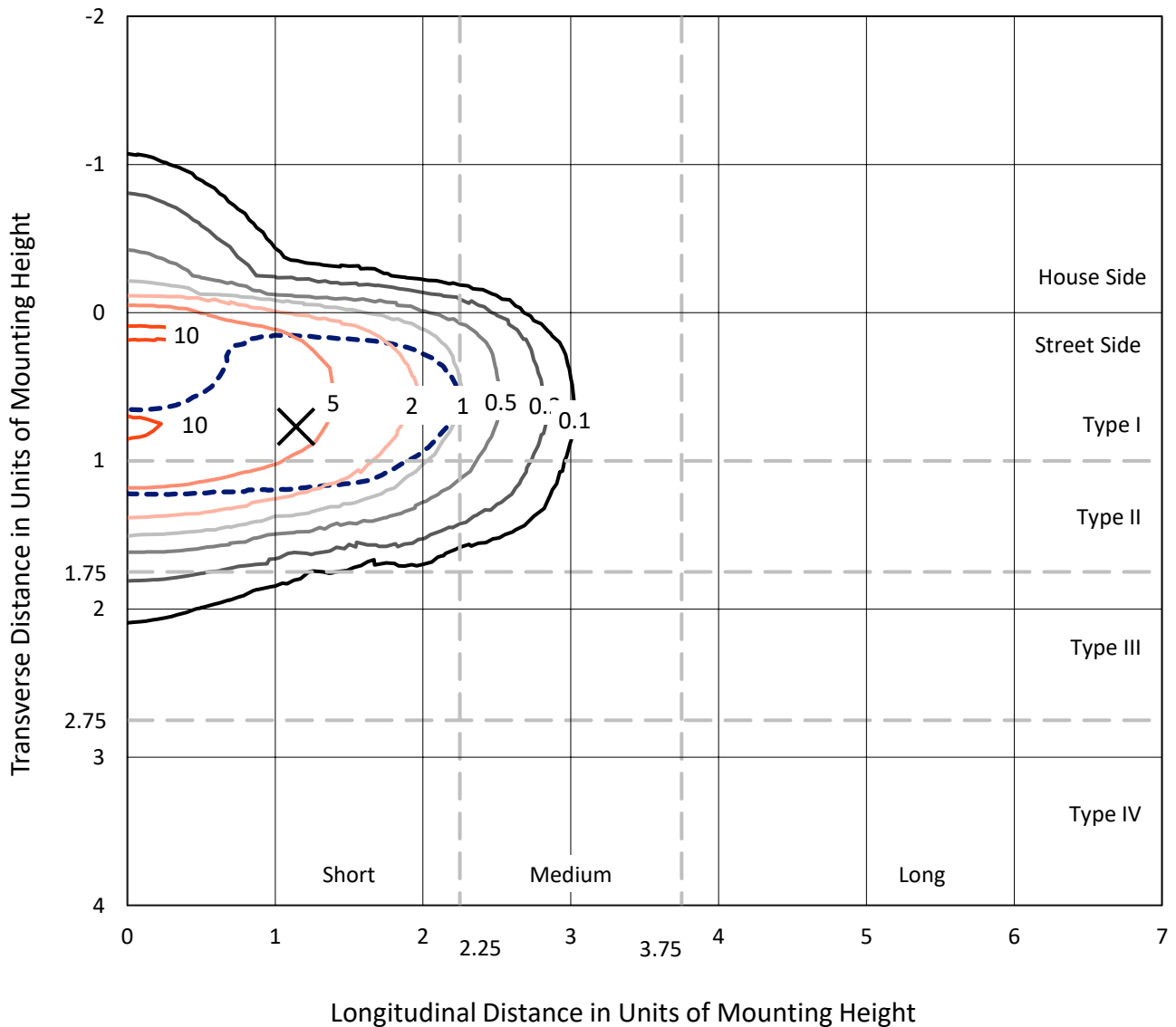
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

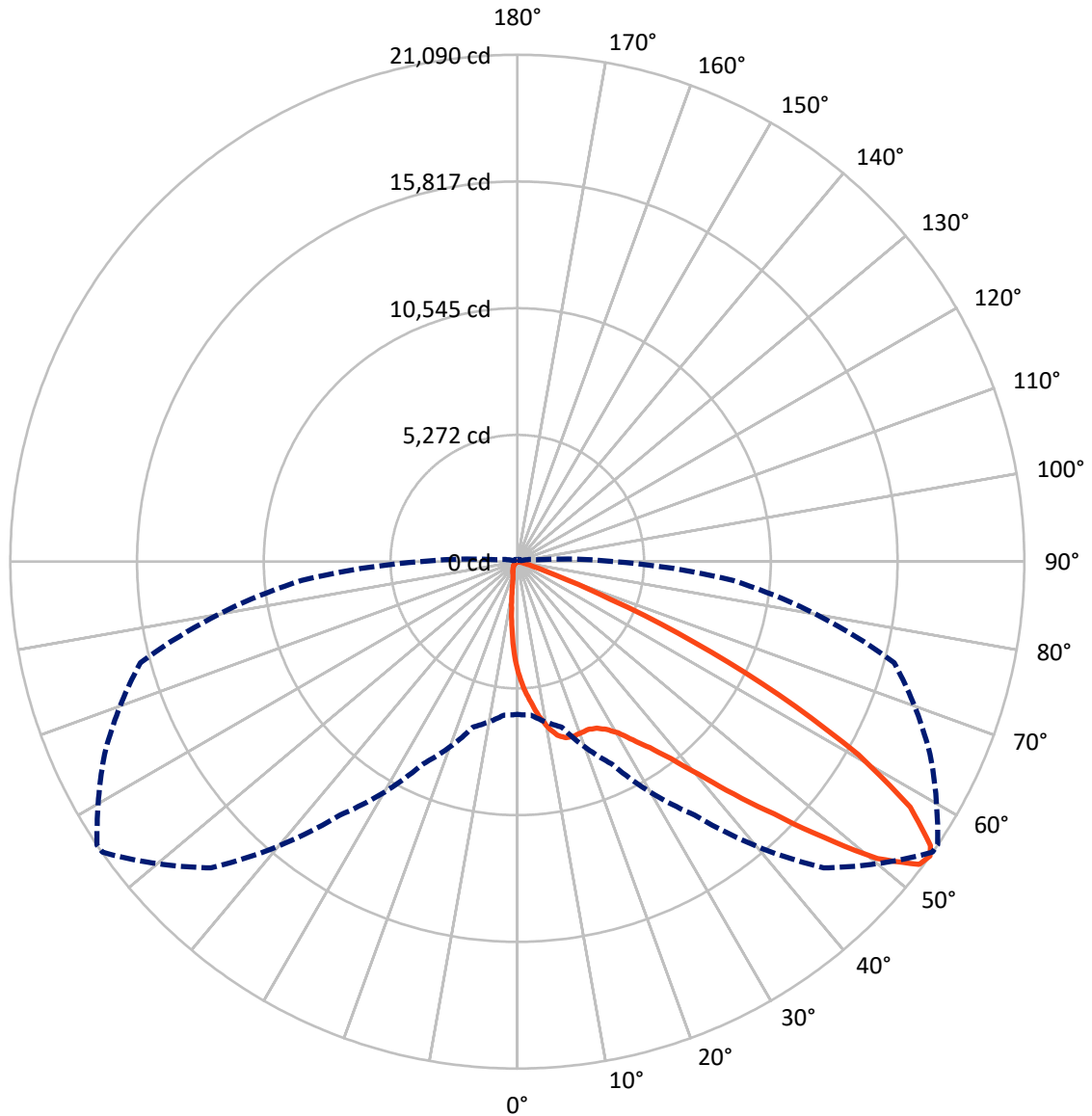
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11 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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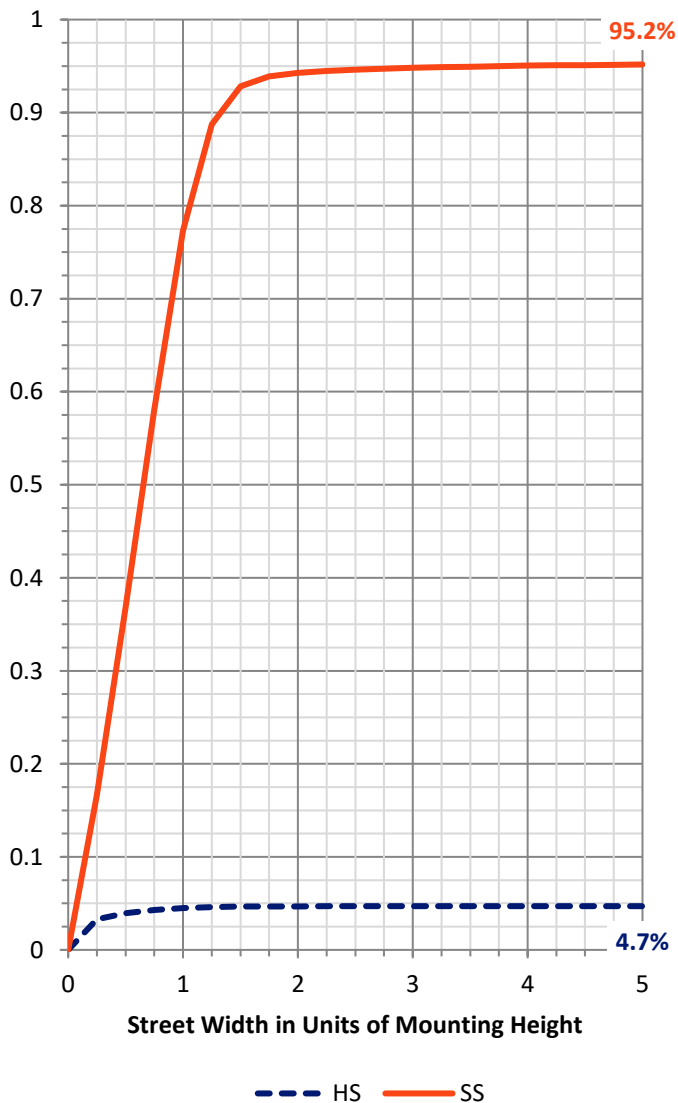
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	978.7	0.0	978.7
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	19718.3	0.0	19718.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	20697.0	0.0	20697.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	406.3	2.0
10°-20°	1098.5	5.3
20°-30°	1902.4	9.2
30°-40°	3283.9	15.9
40°-50°	5589.3	27.0
50°-60°	5531.3	26.7
60°-70°	2524.6	12.2
70°-80°	324.2	1.6
80°-90°	36.5	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°	20697.0	100.0
0°-180°	20697.0	100.0



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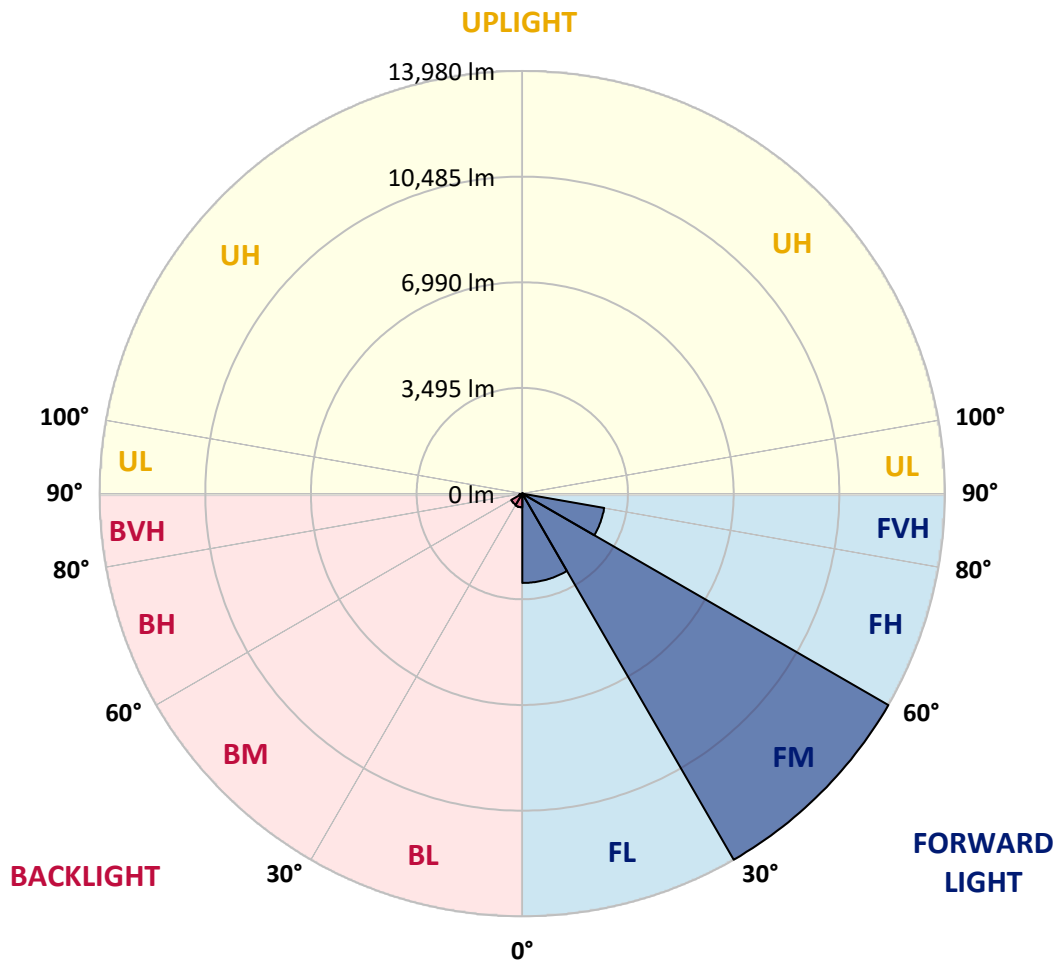
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2954.6	14.3			
FM (30°-60°)	13980.3	67.5			
FH (60°-80°)	2750.8	13.3			G2/5000
FVH (80°-90°)	32.6	0.2			G1/100
BL (0°-30°)	452.6	2.2	B1/500		
BM (30°-60°)	424.2	2.0	B1/1000		
BH (60°-80°)	98.0	0.5	B0/110		G0/110
BVH (80°-90°)	3.9	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°	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3
2.5°	5843.8	5803.4	5747.5	5704.2	5602.3	5455.7	5300.7	5300.7	5151.2	4943.2	4730.9
5°	6740.3	6713.8	6659.3	6547.6	6433.1	6227.9	5916.5	5862.0	5595.3	5218.3	4821.7
7.5°	7104.8	7117.3	7120.1	7090.8	7036.4	6833.9	6525.3	6487.6	6061.7	5556.2	4940.4
10°	6755.7	6817.1	6877.2	6998.7	7170.4	7219.3	7044.7	7005.6	6586.7	5898.3	5068.9
12.5°	6236.2	6269.7	6303.3	6494.6	6839.5	7234.6	7417.6	7416.2	7061.5	6239.0	5232.2
15°	5994.7	6024.0	6026.8	6112.0	6410.8	6986.1	7576.8	7597.7	7525.1	6659.3	5408.2
17.5°	6044.9	6068.7	6049.1	6070.1	6226.5	6712.4	7558.6	7628.4	7900.7	7062.9	5567.4
20°	6373.1	6419.2	6343.8	6285.1	6332.6	6639.8	7497.2	7594.9	8166.0	7456.7	5712.6
22.5°	6962.3	6987.5	6892.5	6731.9	6648.2	6792.0	7480.4	7576.8	8392.2	7779.2	5796.4
25°	7617.3	7608.9	7504.1	7324.0	7148.1	7099.2	7590.7	7677.3	8579.4	8069.7	5821.5
27.5°	8272.2	8297.3	8121.3	7897.9	7687.1	7560.0	7837.9	7902.1	8790.2	8400.6	5852.2
30°	9033.2	8992.7	8819.5	8564.0	8322.4	8145.1	8235.8	8254.0	9080.7	8839.1	5933.2
32.5°	10023.2	9911.5	9717.4	9270.6	9097.4	8797.2	8819.5	8841.9	9433.9	9273.4	6031.0
35°	11366.5	11360.9	10981.1	10379.3	9957.6	9584.8	9487.0	9505.2	9968.8	9918.5	6247.4
37.5°	12983.5	13005.9	12573.0	11967.0	11190.6	10598.5	10397.4	10400.2	10781.4	10809.4	6576.9
40°	14300.3	14359.0	14100.6	13691.5	12924.9	11999.1	11661.2	11630.4	11923.7	11888.8	7047.5
42.5°	14867.3	14921.7	15018.1	15160.5	14738.8	13975.0	13177.6	13219.5	13308.9	13064.5	7575.4
45°	14589.4	14676.0	15054.4	15934.1	16330.7	16073.7	15122.8	14976.2	14597.8	14342.2	8106.0
47.5°	13431.8	13642.6	14275.2	15740.0	17128.0	17996.5	17317.9	17123.8	15888.0	15275.0	8443.9
50°	11528.5	11541.1	12422.2	14294.7	16714.7	19210.0	19559.1	19413.9	17090.3	15798.6	8614.3
52.5°	8357.3	8632.4	9439.5	11608.1	14924.5	19025.7	20987.6	20927.5	18330.3	16066.7	8860.0
54°	6353.5	6406.6	7124.3	9276.2	12867.6	18013.3	21075.6	21089.5	18946.1	16228.7	9005.3
55°	5208.5	5081.4	5835.5	7902.1	11464.3	17118.2	20787.9	20854.9	19222.6	16312.5	9112.8
57.5°	2468.8	2470.2	3046.9	4168.2	7180.2	13292.1	19029.9	19267.2	19253.3	16456.3	9443.7
60°	1249.8	1258.1	1385.2	1924.2	3546.8	8836.3	15734.4	16299.9	17771.7	16477.3	9552.6
62.5°	874.1	864.4	843.4	925.8	1492.7	4490.8	11714.2	12205.8	15099.1	15679.9	9206.3
65°	748.5	727.5	668.9	656.3	754.0	1788.8	7296.1	8097.6	11528.5	13577.0	8220.5
67.5°	639.5	631.2	578.1	546.0	533.4	779.2	3764.6	4186.3	7879.8	9759.3	6226.5
70°	543.2	539.0	506.9	466.4	431.5	466.4	1396.4	1730.1	4391.6	5254.6	2938.0
72.5°	441.3	445.4	451.0	399.4	363.1	330.9	596.3	694.0	1837.6	1878.1	1027.7
75°	386.8	382.6	382.6	347.7	303.0	245.8	328.1	353.3	562.7	522.2	238.8
77.5°	272.3	262.5	307.2	286.3	252.7	174.5	187.1	198.3	233.2	199.7	111.7
80°	188.5	188.5	196.9	256.9	227.6	127.1	114.5	122.9	138.2	118.7	64.2
82.5°	106.1	108.9	128.5	136.8	132.7	85.2	75.4	76.8	92.2	81.0	40.5
85°	12.6	20.9	74.0	72.6	54.5	37.7	41.9	43.3	57.3	50.3	23.7
87.5°	1.4	2.8	15.4	19.5	14.0	15.4	15.4	15.4	19.5	22.3	16.8
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°	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3	4598.3
2.5°	4616.4	4510.3	4257.6	3964.3	3777.2	3472.8	3215.9	3030.1	2984.1	2894.7	2921.2
5°	4610.8	4390.2	3875.0	3330.4	2749.5	2316.6	1994.0	1739.9	1628.2	1554.2	1502.5
7.5°	4613.6	4268.7	3442.1	2574.9	1880.9	1456.4	1157.6	1002.6	899.3	856.0	861.6
10°	4622.0	4131.9	2939.4	1907.5	1269.3	941.2	758.2	684.2	649.3	643.7	642.3
12.5°	4641.6	3982.5	2459.0	1415.9	888.1	684.2	614.4	589.3	578.1	578.1	573.9
15°	4662.5	3817.7	2059.7	1052.9	684.2	587.9	555.8	543.2	536.2	536.2	534.8
17.5°	4662.5	3627.8	1686.8	816.9	589.3	540.4	515.3	498.5	492.9	492.9	491.5
20°	4633.2	3407.2	1355.9	657.7	534.8	495.7	470.6	452.4	445.4	442.7	441.3
22.5°	4531.3	3112.5	1079.4	565.5	490.1	456.6	424.5	403.6	398.0	395.2	396.6
25°	4349.7	2780.2	854.6	497.1	449.6	409.1	381.2	365.9	360.3	360.3	361.7
27.5°	4162.6	2432.5	677.2	445.4	400.8	364.5	342.1	332.3	330.9	335.1	336.5
30°	3989.5	2083.4	548.8	403.6	357.5	326.8	311.4	308.6	308.6	310.0	311.4
32.5°	3796.8	1777.6	459.4	367.2	322.6	296.0	287.7	287.7	290.4	290.4	293.2
35°	3675.3	1515.1	403.6	332.3	296.0	273.7	268.1	269.5	273.7	279.3	282.1
37.5°	3609.6	1305.6	367.2	304.4	270.9	255.5	250.0	252.7	262.5	272.3	273.7
40°	3615.2	1147.8	337.9	280.7	251.3	234.6	230.4	238.8	248.6	258.3	259.7
42.5°	3676.7	1030.5	310.0	252.7	234.6	210.9	209.5	217.8	222.0	231.8	233.2
45°	3749.3	945.3	280.7	223.4	203.9	182.9	184.3	191.3	196.9	212.2	215.0
47.5°	3771.6	886.7	247.2	189.9	167.6	160.6	162.0	166.2	177.3	191.3	192.7
50°	3796.8	850.4	215.0	160.6	142.4	141.0	142.4	145.2	152.2	157.8	156.4
52.5°	3904.3	849.0	188.5	139.6	121.5	124.3	125.7	124.3	118.7	110.3	107.5
54°	4004.8	853.2	175.9	129.9	111.7	115.9	114.5	107.5	93.6	85.2	81.0
55°	4085.8	857.4	169.0	122.9	106.1	107.5	108.9	95.0	76.8	68.4	65.6
57.5°	4245.0	847.6	152.2	107.5	93.6	88.0	86.6	62.8	41.9	36.3	33.5
60°	4165.4	765.2	138.2	92.2	79.6	71.2	58.6	34.9	20.9	15.4	15.4
62.5°	3852.6	649.3	122.9	75.4	65.6	54.5	30.7	19.5	9.8	5.6	4.2
65°	3446.3	546.0	110.3	60.0	51.7	34.9	16.8	12.6	4.2	0.0	0.0
67.5°	2562.4	405.0	93.6	47.5	39.1	22.3	11.2	7.0	1.4	0.0	0.0
70°	1186.9	247.2	79.6	36.3	27.9	16.8	8.4	4.2	0.0	0.0	0.0
72.5°	340.7	155.0	65.6	26.5	19.5	14.0	7.0	2.8	1.4	0.0	0.0
75°	118.7	124.3	48.9	19.5	15.4	9.8	5.6	2.8	1.4	0.0	0.0
77.5°	71.2	100.5	30.7	16.8	12.6	8.4	5.6	2.8	1.4	1.4	0.0
80°	40.5	67.0	19.5	14.0	11.2	7.0	4.2	2.8	1.4	1.4	0.0
82.5°	22.3	32.1	15.4	12.6	9.8	7.0	4.2	2.8	1.4	1.4	1.4
85°	18.2	16.8	12.6	11.2	8.4	5.6	4.2	1.4	0.0	0.0	0.0
87.5°	14.0	11.2	11.2	11.2	8.4	5.6	4.2	1.4	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)