

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: P455848

Luminaire Tested: **GALN-SA7A-750-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455848
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-SA7A-750-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 26097 lumens
Efficiency: N/A
Efficacy: 121.4 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

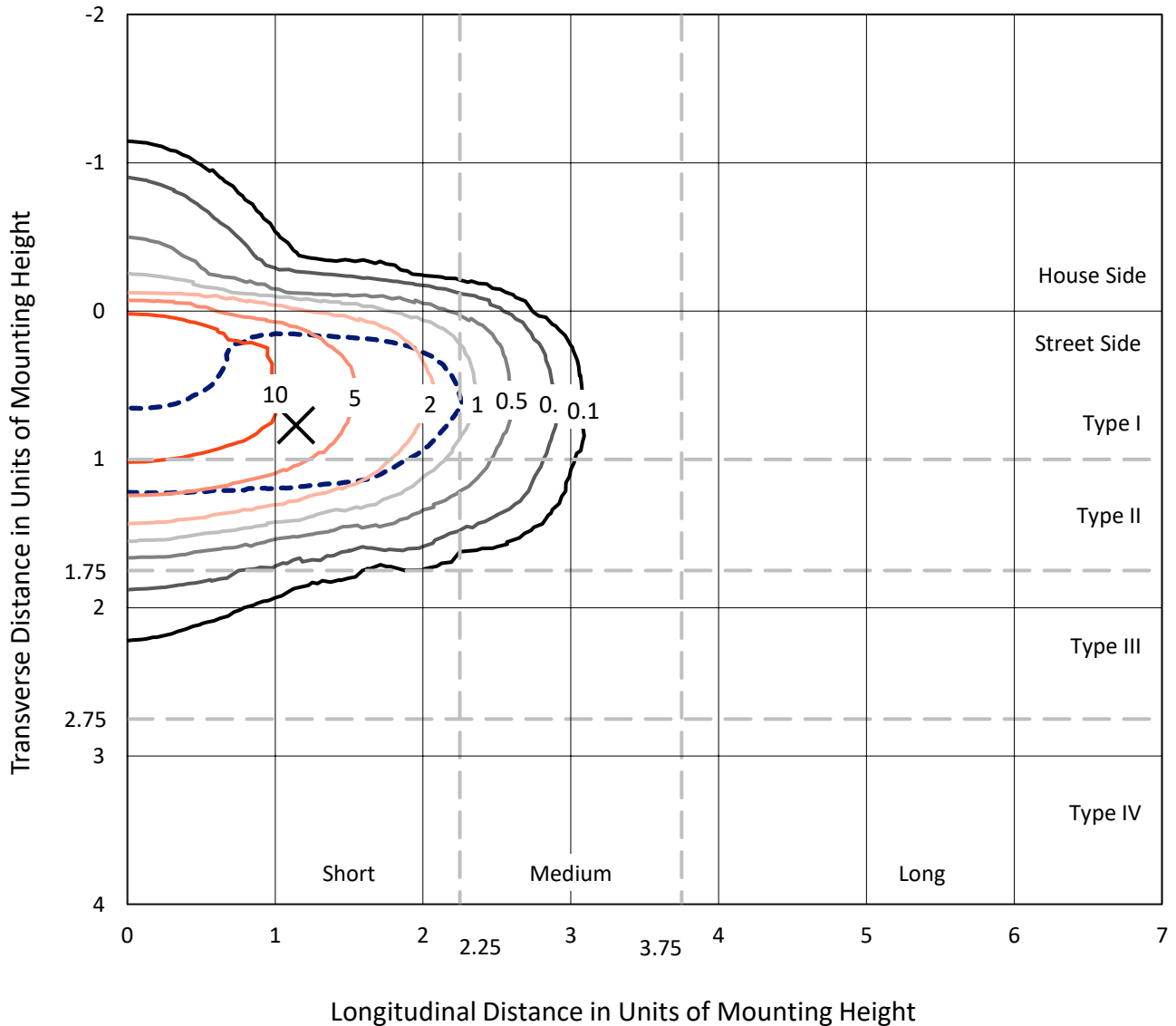
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

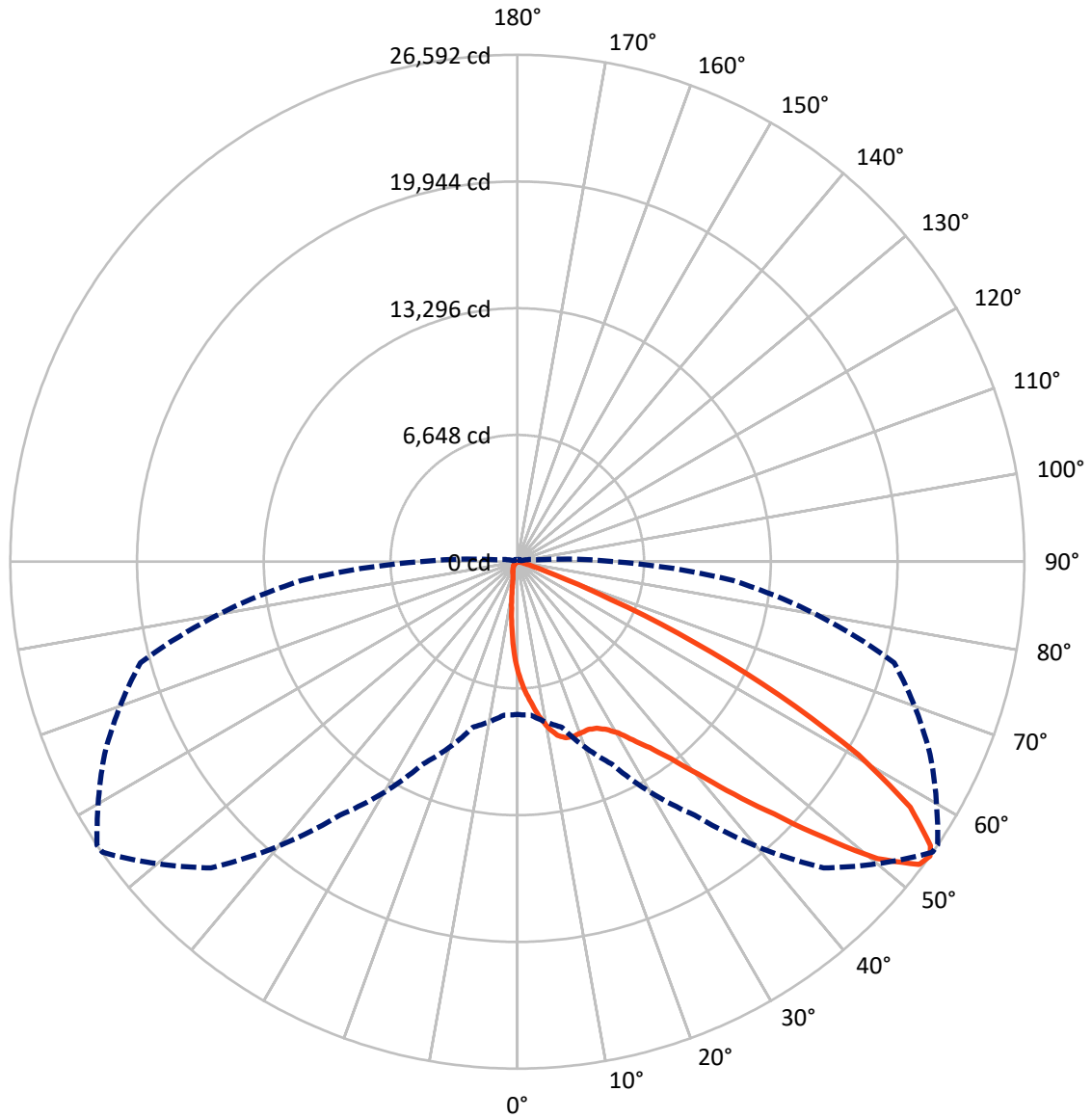
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 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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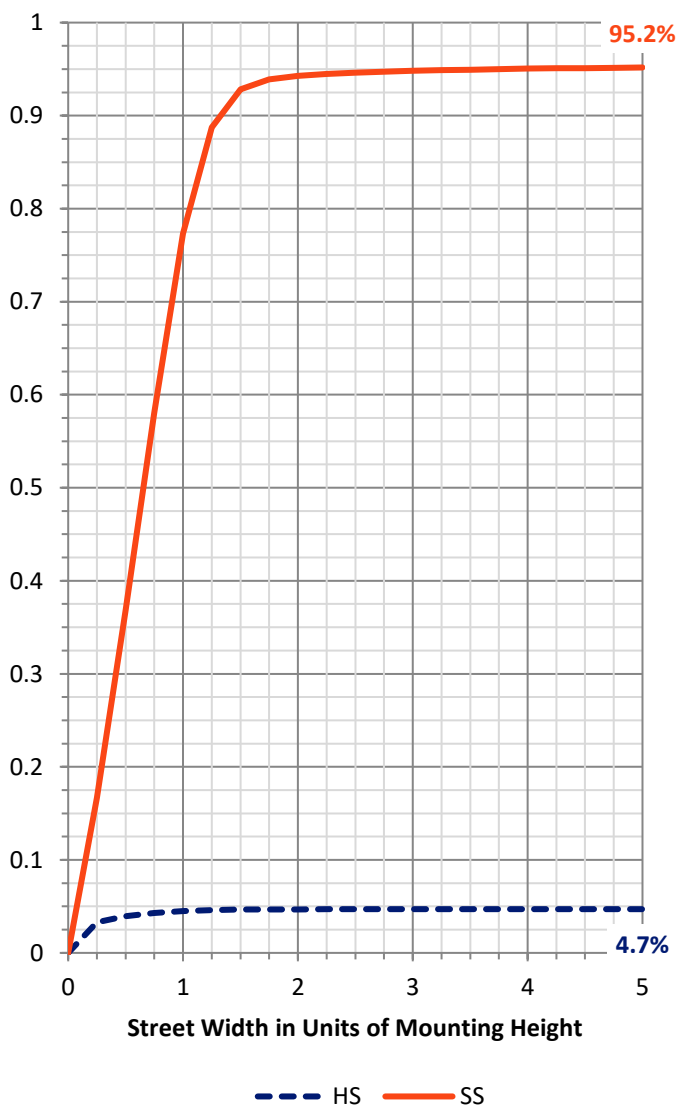
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1234.1	0.0	1234.1
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	24862.9	0.0	24862.9
	% Fixture	95.3	0.0	95.3
Total	Lumens	26097.0	0.0	26097.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	512.3	2.0
10°-20°	1385.1	5.3
20°-30°	2398.8	9.2
30°-40°	4140.7	15.9
40°-50°	7047.6	27.0
50°-60°	6974.4	26.7
60°-70°	3183.3	12.2
70°-80°	408.8	1.6
80°-90°	46.1	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°	26097.0	100.0
0°-180°	26097.0	100.0

Coefficient of Utilization



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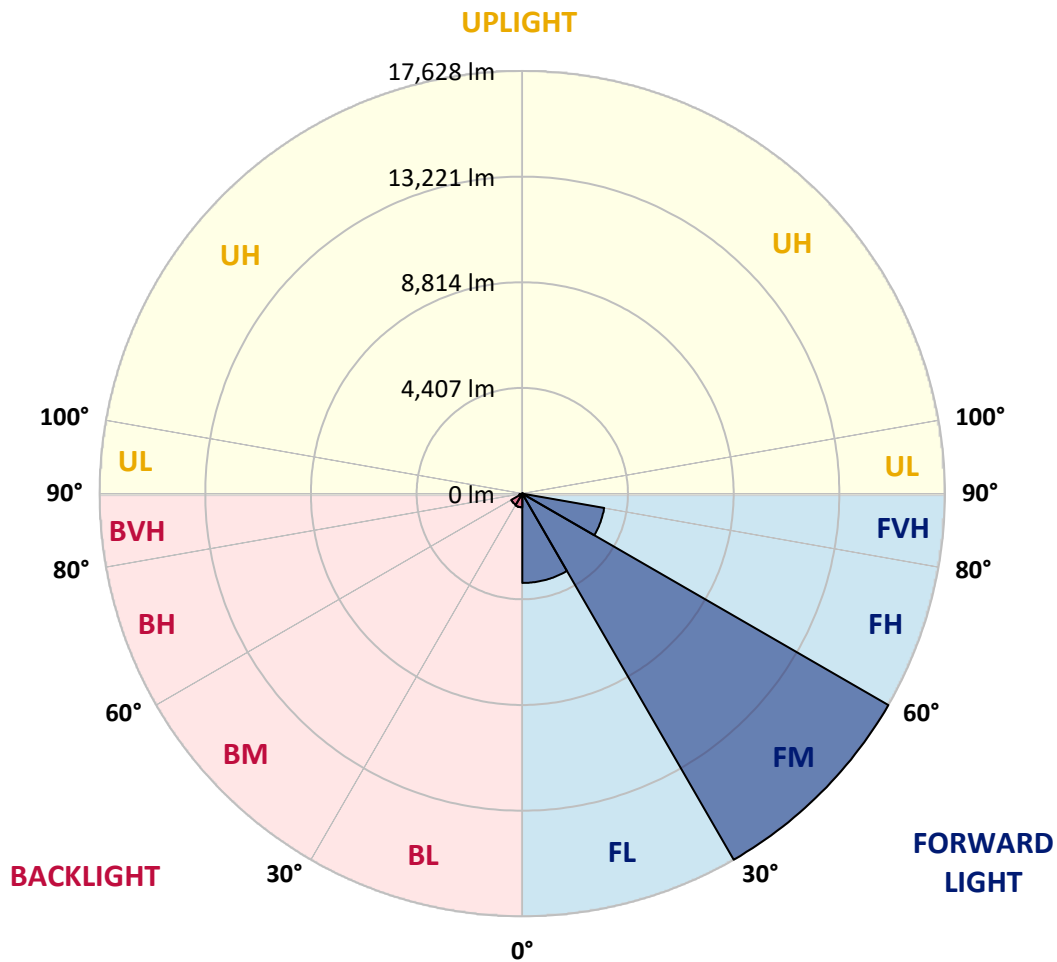
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3725.4	14.3			
FM (30°-60°)	17627.8	67.5			
FH (60°-80°)	3468.5	13.3			G2/5000
FVH (80°-90°)	41.1	0.2			G1/100
BL (0°-30°)	570.7	2.2	B2/1000		
BM (30°-60°)	534.8	2.0	B1/1000		
BH (60°-80°)	123.6	0.5	B1/500		G1/500
BVH (80°-90°)	4.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	5798.0	5798.0	5798.0	5798.0	5798.0	5798.0	5798.0	5798.0	5798.0	5798.0	5798.0
2.5°	7368.6	7317.5	7247.1	7192.5	7064.0	6879.1	6683.6	6683.6	6495.2	6232.9	5965.3
5°	8498.9	8465.5	8396.8	8255.9	8111.6	7852.7	7460.1	7391.4	7055.1	6579.8	6079.7
7.5°	8958.5	8974.3	8977.8	8940.9	8872.2	8616.9	8227.8	8180.2	7643.2	7005.8	6229.4
10°	8518.3	8595.8	8671.5	8824.7	9041.2	9102.8	8882.8	8833.5	8305.2	7437.2	6391.4
12.5°	7863.3	7905.6	7947.8	8189.0	8623.9	9122.2	9352.9	9351.1	8903.9	7866.8	6597.4
15°	7558.7	7595.7	7599.2	7706.6	8083.4	8808.8	9553.6	9580.0	9488.4	8396.8	6819.2
17.5°	7622.1	7652.0	7627.4	7653.8	7851.0	8463.7	9530.7	9618.7	9962.1	8905.6	7019.9
20°	8035.9	8094.0	7998.9	7924.9	7984.8	8372.2	9453.2	9576.5	10296.6	9402.2	7203.0
22.5°	8778.9	8810.6	8690.8	8488.4	8382.7	8564.1	9432.1	9553.6	10581.8	9808.9	7308.7
25°	9604.6	9594.1	9462.0	9234.9	9013.1	8951.4	9571.2	9680.4	10817.8	10175.1	7340.4
27.5°	10430.4	10462.1	10240.3	9958.6	9692.7	9532.5	9882.8	9963.8	11083.6	10592.4	7379.1
30°	11390.0	11338.9	11120.6	10798.4	10493.8	10270.2	10384.6	10407.5	11449.9	11145.3	7481.2
32.5°	12638.3	12497.5	12252.7	11689.3	11471.0	11092.4	11120.6	11148.8	11895.3	11692.8	7604.5
35°	14332.1	14325.1	13846.2	13087.3	12555.6	12085.5	11962.2	11985.1	12569.7	12506.3	7877.4
37.5°	16371.0	16399.2	15853.4	15089.2	14110.3	13363.8	13110.2	13113.7	13594.4	13629.6	8292.9
40°	18031.4	18105.3	17779.6	17263.7	16297.1	15129.7	14703.7	14664.9	15034.7	14990.6	8886.3
42.5°	18746.2	18814.9	18936.4	19116.0	18584.2	17621.1	16615.8	16668.6	16781.3	16473.2	9551.8
45°	18395.9	18505.0	18982.2	20091.4	20591.5	20267.5	19068.4	18883.6	18406.4	18084.2	10220.9
47.5°	16936.2	17202.1	17999.7	19846.7	21596.8	22692.0	21836.3	21591.5	20033.3	19260.4	10647.0
50°	14536.4	14552.2	15663.2	18024.3	21075.6	24222.0	24662.2	24479.1	21549.3	19920.6	10861.8
52.5°	10537.8	10884.7	11902.4	14636.7	18818.4	23989.6	26463.4	26387.7	23112.8	20258.7	11171.7
54°	8011.2	8078.1	8983.1	11696.4	16224.9	22713.1	26574.3	26591.9	23889.3	20462.9	11354.8
55°	6567.4	6407.2	7358.0	9963.8	14455.4	21584.5	26211.6	26296.1	24237.9	20568.6	11490.4
57.5°	3112.9	3114.7	3841.9	5255.7	9053.5	16760.2	23994.9	24294.2	24276.6	20749.9	11907.7
60°	1575.8	1586.4	1746.6	2426.3	4472.2	11141.7	19839.6	20552.7	22408.5	20776.3	12045.0
62.5°	1102.2	1089.9	1063.5	1167.3	1882.2	5662.4	14770.6	15390.3	19038.5	19771.0	11608.3
65°	943.7	917.3	843.4	827.5	950.8	2255.5	9199.7	10210.3	14536.4	17119.3	10365.3
67.5°	806.4	795.8	728.9	688.4	672.6	982.5	4746.9	5278.6	9935.7	12305.6	7851.0
70°	684.9	679.6	639.1	588.1	544.1	588.1	1760.7	2181.5	5537.4	6625.5	3704.5
72.5°	556.4	561.7	568.7	503.6	457.8	417.3	751.8	875.1	2317.1	2368.1	1295.9
75°	487.7	482.4	482.4	438.4	382.1	309.9	413.8	445.5	709.6	658.5	301.1
77.5°	343.3	331.0	387.4	360.9	318.7	220.1	235.9	250.0	294.0	251.8	140.9
80°	237.7	237.7	248.3	324.0	287.0	160.2	144.4	154.9	174.3	149.7	81.0
82.5°	133.8	137.3	162.0	172.5	167.3	107.4	95.1	96.8	116.2	102.1	51.1
85°	15.8	26.4	93.3	91.6	68.7	47.5	52.8	54.6	72.2	63.4	29.9
87.5°	1.8	3.5	19.4	24.6	17.6	19.4	19.4	19.4	24.6	28.2	21.1
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°	5798.0	5798.0	5798.0	5798.0	5798.0	5798.0	5798.0	5798.0	5798.0	5798.0	5798.0
2.5°	5820.9	5687.1	5368.4	4998.6	4762.7	4378.9	4054.9	3820.7	3762.6	3649.9	3683.4
5°	5813.8	5535.7	4886.0	4199.3	3466.8	2921.0	2514.3	2193.8	2053.0	1959.7	1894.5
7.5°	5817.4	5382.5	4340.1	3246.7	2371.7	1836.4	1459.6	1264.2	1133.9	1079.3	1086.4
10°	5827.9	5209.9	3706.3	2405.1	1600.5	1186.7	956.1	862.7	818.7	811.7	809.9
12.5°	5852.6	5021.5	3100.6	1785.4	1119.8	862.7	774.7	743.0	728.9	728.9	723.6
15°	5879.0	4813.8	2597.0	1327.6	862.7	741.3	700.8	684.9	676.1	676.1	674.4
17.5°	5879.0	4574.3	2126.9	1030.0	743.0	681.4	649.7	628.6	621.5	621.5	619.8
20°	5842.0	4296.1	1709.6	829.3	674.4	625.1	593.4	570.5	561.7	558.1	556.4
22.5°	5713.5	3924.6	1361.0	713.1	618.0	575.8	535.3	508.8	501.8	498.3	500.0
25°	5484.6	3505.6	1077.6	626.8	566.9	515.9	480.7	461.3	454.3	454.3	456.0
27.5°	5248.7	3067.1	853.9	561.7	505.3	459.5	431.4	419.0	417.3	422.6	424.3
30°	5030.3	2627.0	692.0	508.8	450.7	412.0	392.6	389.1	389.1	390.9	392.6
32.5°	4787.4	2241.4	579.3	463.1	406.7	373.3	362.7	362.7	366.2	366.2	369.7
35°	4634.2	1910.4	508.8	419.0	373.3	345.1	338.1	339.8	345.1	352.1	355.7
37.5°	4551.4	1646.3	463.1	383.8	341.6	322.2	315.2	318.7	331.0	343.3	345.1
40°	4558.5	1447.3	426.1	353.9	316.9	295.8	290.5	301.1	313.4	325.7	327.5
42.5°	4635.9	1299.4	390.9	318.7	295.8	265.9	264.1	274.7	280.0	292.3	294.0
45°	4727.5	1192.0	353.9	281.7	257.1	230.7	232.4	241.2	248.3	267.6	271.1
47.5°	4755.7	1118.0	311.6	239.5	211.3	202.5	204.2	209.5	223.6	241.2	243.0
50°	4787.4	1072.3	271.1	202.5	179.6	177.8	179.6	183.1	191.9	199.0	197.2
52.5°	4922.9	1070.5	237.7	176.1	153.2	156.7	158.5	156.7	149.7	139.1	135.6
54°	5049.7	1075.8	221.8	163.7	140.9	146.1	144.4	135.6	118.0	107.4	102.1
55°	5151.8	1081.1	213.0	154.9	133.8	135.6	137.3	119.7	96.8	86.3	82.8
57.5°	5352.5	1068.7	191.9	135.6	118.0	110.9	109.2	79.2	52.8	45.8	42.3
60°	5252.2	964.9	174.3	116.2	100.4	89.8	73.9	44.0	26.4	19.4	19.4
62.5°	4857.8	818.7	154.9	95.1	82.8	68.7	38.7	24.6	12.3	7.0	5.3
65°	4345.4	688.4	139.1	75.7	65.1	44.0	21.1	15.8	5.3	0.0	0.0
67.5°	3230.9	510.6	118.0	59.9	49.3	28.2	14.1	8.8	1.8	0.0	0.0
70°	1496.6	311.6	100.4	45.8	35.2	21.1	10.6	5.3	0.0	0.0	0.0
72.5°	429.6	195.4	82.8	33.5	24.6	17.6	8.8	3.5	1.8	0.0	0.0
75°	149.7	156.7	61.6	24.6	19.4	12.3	7.0	3.5	1.8	0.0	0.0
77.5°	89.8	126.8	38.7	21.1	15.8	10.6	7.0	3.5	1.8	1.8	0.0
80°	51.1	84.5	24.6	17.6	14.1	8.8	5.3	3.5	1.8	1.8	0.0
82.5°	28.2	40.5	19.4	15.8	12.3	8.8	5.3	3.5	1.8	1.8	1.8
85°	22.9	21.1	15.8	14.1	10.6	7.0	5.3	1.8	0.0	0.0	0.0
87.5°	17.6	14.1	14.1	14.1	10.6	7.0	5.3	1.8	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)