

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: P457633

Luminaire Tested: **GALN-SA9A-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457633
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9A-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27759 lumens
Efficiency: N/A
Efficacy: 101.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G3

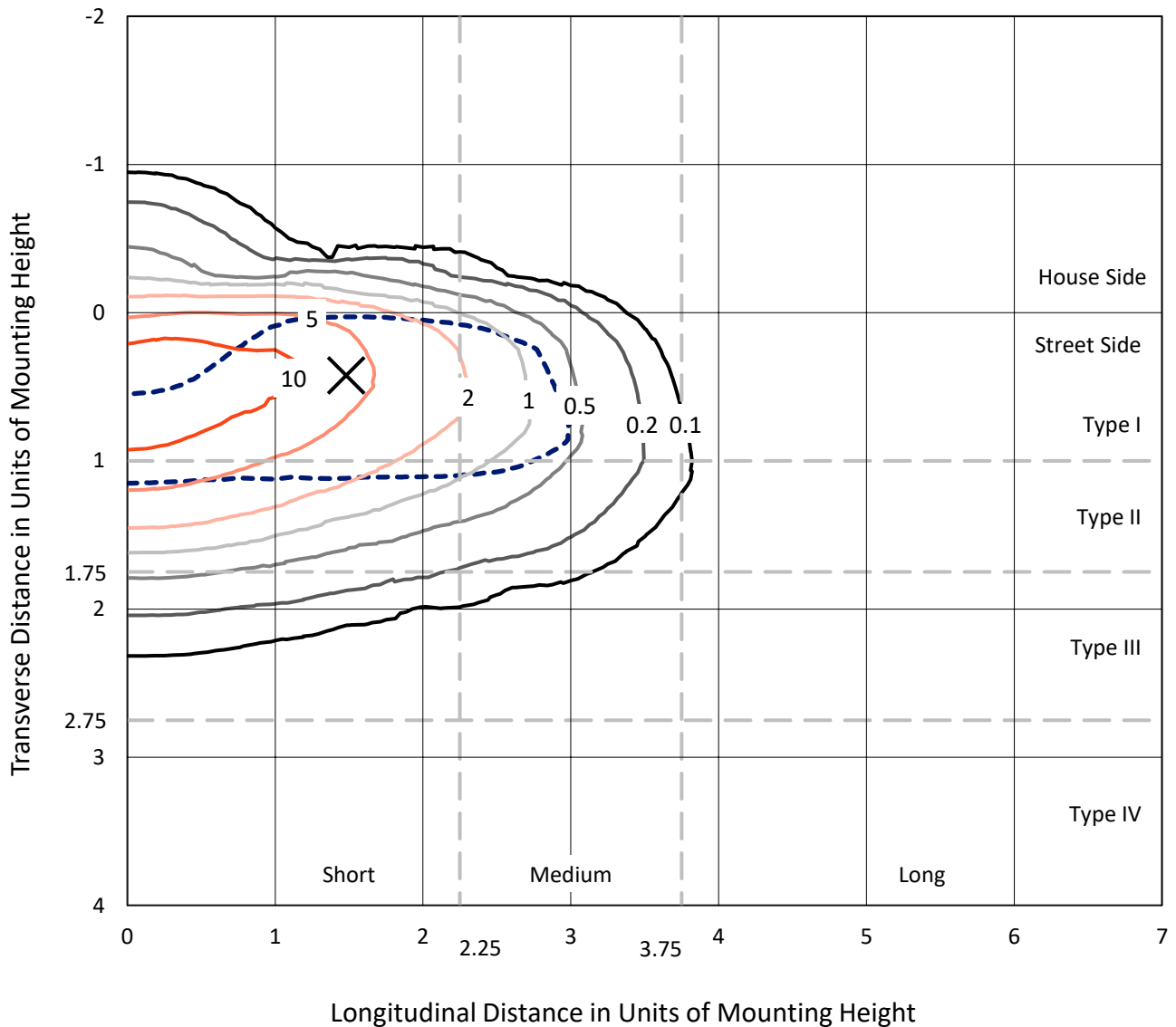
Input Watts (W): 274
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

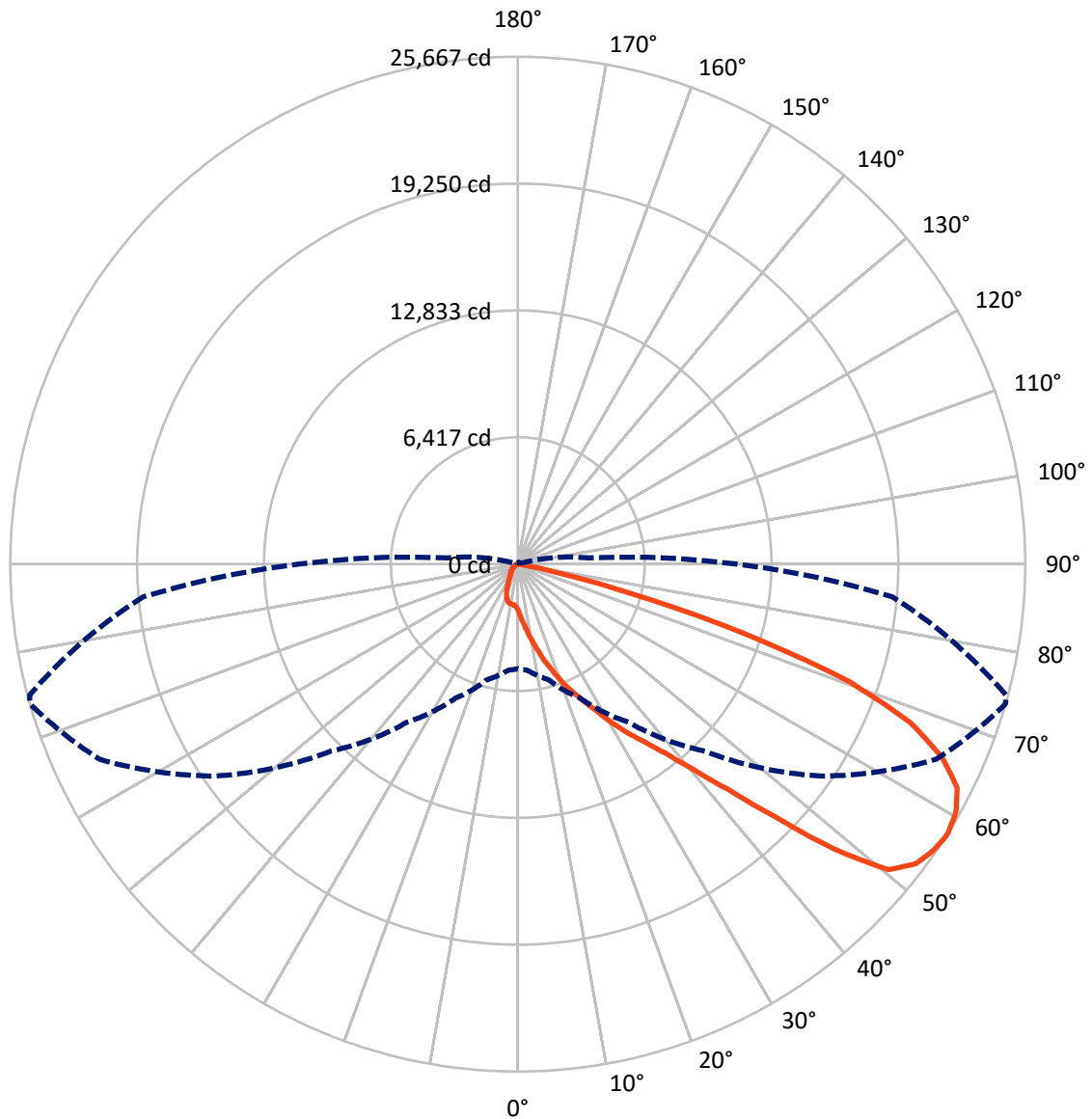
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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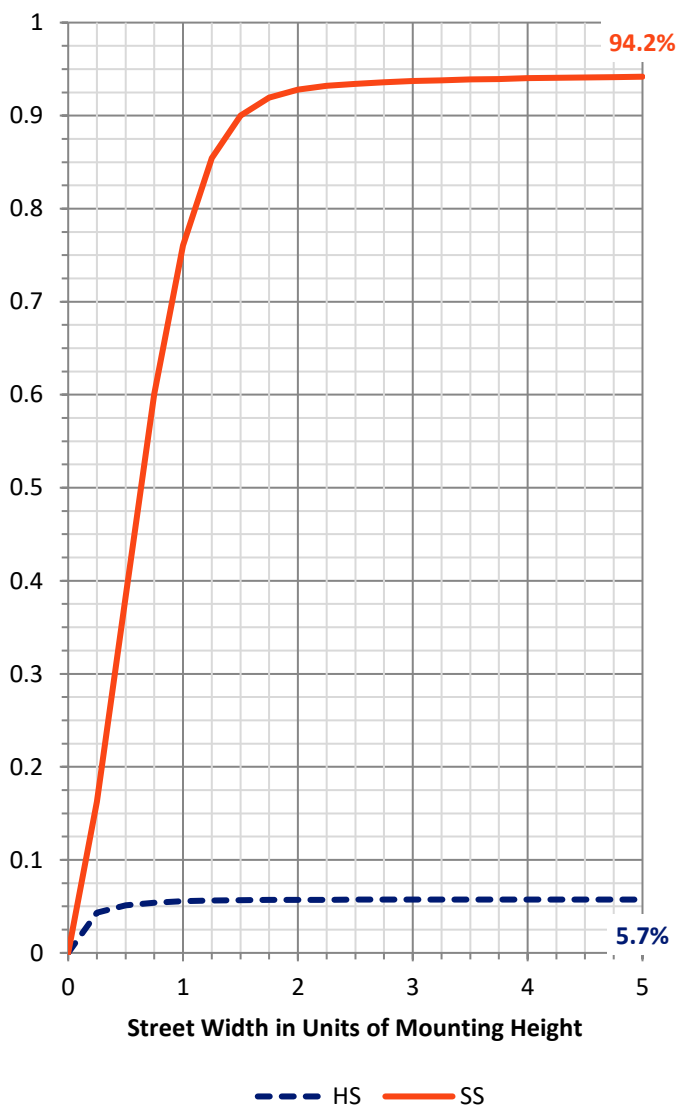
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1601.0	0.0	1601.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	26158.0	0.0	26158.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	27759.0	0.0	27759.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	280.6	1.0
10°-20°	1106.0	4.0
20°-30°	2366.6	8.5
30°-40°	4349.9	15.7
40°-50°	6668.4	24.0
50°-60°	7054.3	25.4
60°-70°	4606.6	16.6
70°-80°	1258.7	4.5
80°-90°	67.8	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°	27759.0	100.0
0°-180°	27759.0	100.0

Coefficient of Utilization



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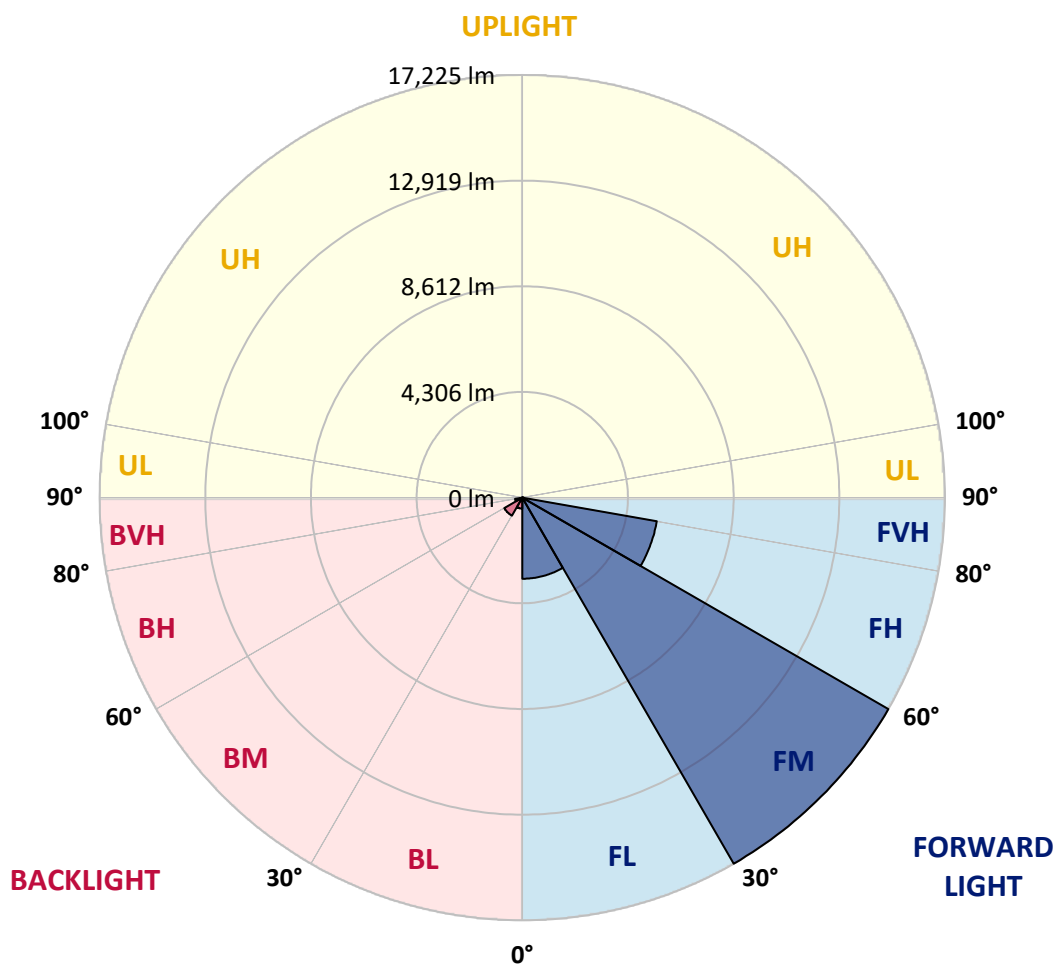
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3306.1	11.9			
FM (30°-60°)	17225.0	62.1			
FH (60°-80°)	5564.8	20.0			G3/7500
FVH (80°-90°)	62.2	0.2			G1/100
BL (0°-30°)	447.2	1.6	B1/500		
BM (30°-60°)	847.6	3.1	B1/1000		
BH (60°-80°)	300.6	1.1	B1/500		G1/500
BVH (80°-90°)	5.6	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-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8
2.5°	3401.9	3371.2	3309.9	3288.8	3198.7	3058.8	2936.2	2771.3	2641.0	2627.6	2470.4
5°	4555.6	4486.7	4457.9	4319.9	4103.3	3900.2	3551.4	3286.9	2982.2	2959.2	2642.9
7.5°	5667.3	5571.4	5542.7	5412.3	5159.4	4839.3	4387.0	3905.9	3423.0	3378.9	2874.8
10°	6472.2	6485.6	6433.9	6347.6	6142.6	5816.7	5259.0	4601.6	3913.6	3858.0	3135.5
12.5°	7049.1	7047.2	7056.8	7054.8	6945.6	6698.4	6111.9	5354.9	4454.1	4344.8	3434.5
15°	7424.7	7430.5	7459.2	7558.9	7570.4	7417.1	6928.3	6075.5	5080.8	4944.7	3758.4
17.5°	7804.2	7844.5	7890.5	7984.4	8068.7	8007.4	7662.4	6826.8	5648.1	5546.5	4105.3
20°	8430.9	8486.5	8459.7	8517.2	8561.2	8567.0	8300.6	7520.6	6336.1	6165.6	4502.0
22.5°	9433.3	9431.4	9362.4	9258.9	9172.6	9168.8	8927.3	8233.5	6960.9	6796.1	4900.6
25°	10700.1	10705.9	10571.7	10276.6	10061.9	9799.3	9521.4	8858.3	7629.8	7426.6	5320.4
27.5°	12152.9	12116.5	11913.3	11507.0	11081.5	10633.0	10232.5	9584.7	8338.9	8170.3	5801.4
30°	13458.0	13444.6	13207.0	12710.6	12151.0	11700.6	11119.8	10495.1	9257.0	9050.0	6340.0
32.5°	14673.1	14692.3	14362.7	13849.0	13308.6	12789.2	12175.9	11365.2	10157.7	9864.5	6926.4
35°	15621.8	15641.0	15299.9	14872.5	14316.7	13885.4	13300.9	12292.8	11047.0	10799.8	7601.1
37.5°	16127.8	16152.7	15955.3	15633.3	15286.4	15069.9	14525.6	13486.8	12128.0	11978.5	8398.3
40°	16223.6	16252.4	16166.1	16079.9	16060.7	16216.0	16056.9	14893.5	13626.7	13392.9	9586.6
42.5°	15936.1	15974.5	16012.8	16204.5	16595.4	17164.7	17718.5	16802.4	15556.7	15242.4	11039.4
45°	15181.0	15177.2	15328.6	15825.0	16700.9	17915.9	19454.9	19192.4	18186.2	17812.5	13092.0
47.5°	13889.3	13870.1	14197.8	14905.0	16269.6	18053.9	20871.3	22094.0	21542.1	21197.1	15297.9
50°	11921.0	12014.9	12530.4	13517.5	15198.3	17636.1	21308.2	23997.2	24296.2	23930.1	17080.3
52.5°	9615.4	9611.5	10420.3	11760.0	13611.4	16716.2	21003.5	24342.2	25191.2	24911.4	17958.1
55°	7116.2	7166.0	8007.4	9358.5	11551.1	15037.3	20008.8	23987.6	25532.3	25334.9	18536.9
57°	5293.5	5381.7	6056.3	7486.1	9757.2	13375.6	18684.5	23353.2	25666.5	25559.2	19018.0
57.5°	4940.9	4944.7	5602.1	6901.5	9232.0	12737.4	18305.0	23088.7	25662.7	25603.2	19096.5
60°	3041.6	3137.4	3591.6	4664.9	6757.8	9941.2	15761.7	21568.9	25463.3	25549.6	19431.9
62.5°	1820.7	1861.0	2156.1	2811.6	4356.3	7256.1	12898.4	19623.6	24944.0	25206.5	19408.9
65°	1171.0	1180.6	1314.8	1701.9	2723.4	4904.5	9939.2	17053.5	23600.4	24083.4	18650.0
67.5°	904.6	919.9	973.6	1117.4	1579.2	3055.0	7029.9	14310.9	21427.1	22050.0	16810.1
70°	803.0	810.7	829.9	875.9	1044.5	1724.9	4373.6	11179.3	17768.4	17944.7	13155.2
72.5°	655.5	676.5	736.0	751.3	828.0	1077.1	2434.0	7503.3	11938.2	11982.3	7359.6
75°	507.9	511.7	599.9	644.0	697.6	741.7	1086.7	3783.3	5734.3	5427.7	2836.5
77.5°	379.5	396.7	437.0	492.6	569.2	530.9	486.8	1425.9	1780.5	1747.9	824.1
80°	243.4	253.0	304.7	369.9	442.7	346.9	274.1	417.8	391.0	402.5	197.4
82.5°	122.7	124.6	195.5	300.9	281.7	174.4	172.5	170.6	145.7	143.7	92.0
85°	13.4	28.7	126.5	172.5	126.5	57.5	80.5	78.6	76.7	78.6	53.7
87.5°	1.9	1.9	21.1	24.9	17.2	19.2	23.0	24.9	30.7	28.7	23.0
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°	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8	2324.8
2.5°	2393.8	2317.1	2175.3	2039.2	1937.6	1872.5	1788.1	1757.5	1713.4	1707.6	1686.6
5°	2497.3	2351.6	2104.4	1908.9	1751.7	1632.9	1529.4	1443.2	1374.2	1358.8	1366.5
7.5°	2644.8	2428.3	2083.3	1816.9	1598.4	1395.3	1230.4	1128.9	1056.0	1029.2	1033.0
10°	2811.6	2529.9	2079.5	1719.1	1385.7	1136.5	956.4	866.3	824.1	808.8	791.5
12.5°	3009.0	2646.8	2069.9	1567.7	1151.8	906.5	778.1	724.5	684.2	672.7	672.7
15°	3231.3	2771.3	2023.9	1379.9	935.3	749.4	663.1	621.0	607.5	596.0	596.0
17.5°	3463.2	2894.0	1928.1	1148.0	776.2	642.0	588.4	563.5	544.3	530.9	530.9
20°	3727.7	3014.7	1774.7	942.9	655.5	573.0	530.9	502.1	486.8	475.3	471.5
22.5°	3978.8	3112.5	1579.2	774.3	571.1	515.6	477.2	446.6	431.2	425.5	425.5
25°	4239.4	3171.9	1343.5	640.1	521.3	467.6	425.5	400.6	387.1	383.3	381.4
27.5°	4492.4	3206.4	1136.5	559.6	475.3	423.6	383.3	364.1	350.7	346.9	348.8
30°	4799.1	3212.1	935.3	502.1	435.1	381.4	345.0	327.7	320.1	316.2	314.3
32.5°	5109.5	3204.5	785.8	467.6	396.7	345.0	314.3	300.9	295.1	289.4	289.4
35°	5458.3	3164.2	668.9	433.1	360.3	314.3	287.5	276.0	268.3	262.6	260.7
37.5°	5891.5	3143.1	601.8	394.8	327.7	285.6	260.7	249.2	243.4	235.7	233.8
40°	6573.8	3237.1	580.7	360.3	295.1	258.7	235.7	222.3	214.7	207.0	205.1
42.5°	7424.7	3401.9	546.2	325.8	266.4	233.8	210.8	195.5	182.1	172.5	168.7
45°	8526.7	3618.5	492.6	289.4	241.5	207.0	185.9	166.7	149.5	141.8	139.9
47.5°	9682.4	3827.4	444.6	260.7	214.7	184.0	161.0	139.9	124.6	118.8	116.9
50°	10391.6	3869.5	414.0	228.1	187.8	159.1	136.1	116.9	107.3	101.6	101.6
52.5°	10715.5	3802.4	371.8	199.3	162.9	139.9	116.9	101.6	95.8	92.0	90.1
55°	10941.6	3698.9	316.2	172.5	139.9	118.8	103.5	92.0	84.3	80.5	78.6
57°	11073.8	3559.0	274.1	151.4	120.7	103.5	92.0	82.4	74.7	67.1	67.1
57.5°	11079.6	3505.4	262.6	149.5	115.0	99.7	90.1	80.5	70.9	63.2	61.3
60°	10909.0	3137.4	210.8	126.5	92.0	84.3	74.7	63.2	49.8	42.2	40.2
62.5°	10360.9	2669.8	174.4	107.3	74.7	65.2	53.7	47.9	34.5	24.9	24.9
65°	9531.0	2165.7	149.5	86.2	61.3	47.9	36.4	34.5	21.1	11.5	9.6
67.5°	8331.3	1686.6	126.5	70.9	51.7	34.5	24.9	23.0	11.5	3.8	0.0
70°	6347.6	1149.9	105.4	57.5	38.3	24.9	17.2	13.4	7.7	1.9	0.0
72.5°	3658.7	632.5	88.2	44.1	28.7	19.2	13.4	7.7	7.7	0.0	0.0
75°	1307.1	272.2	67.1	32.6	23.0	15.3	9.6	3.8	5.7	1.9	0.0
77.5°	415.9	145.7	44.1	24.9	19.2	11.5	7.7	3.8	3.8	1.9	0.0
80°	122.7	76.7	26.8	21.1	13.4	9.6	5.7	1.9	3.8	1.9	0.0
82.5°	67.1	38.3	21.1	15.3	13.4	7.7	5.7	1.9	1.9	1.9	0.0
85°	34.5	23.0	17.2	15.3	13.4	7.7	5.7	1.9	0.0	1.9	1.9
87.5°	19.2	17.2	17.2	15.3	13.4	9.6	5.7	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)