

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: P457229

Luminaire Tested: **GALN-SA8C-740-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457229
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41680 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

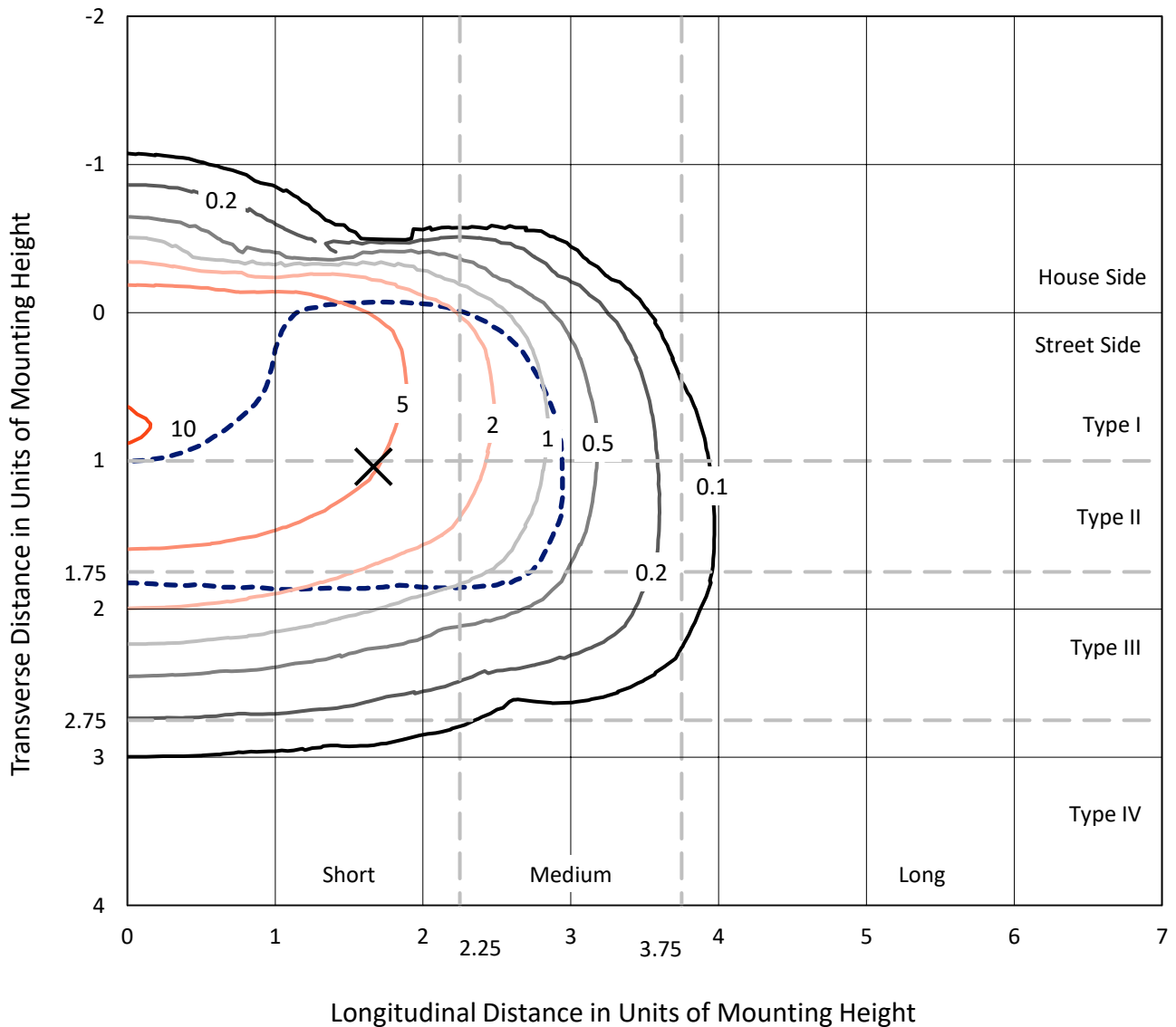
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

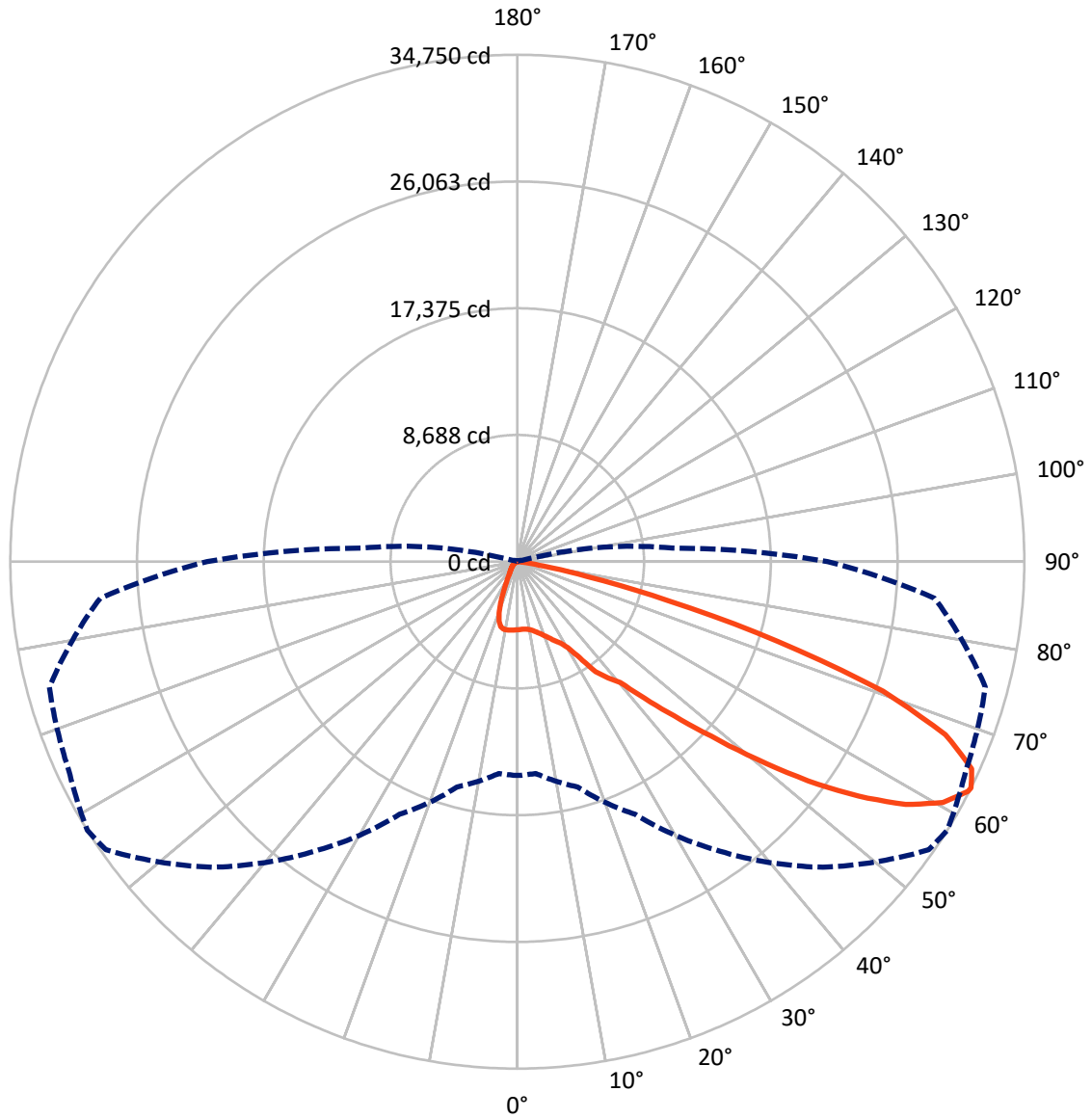
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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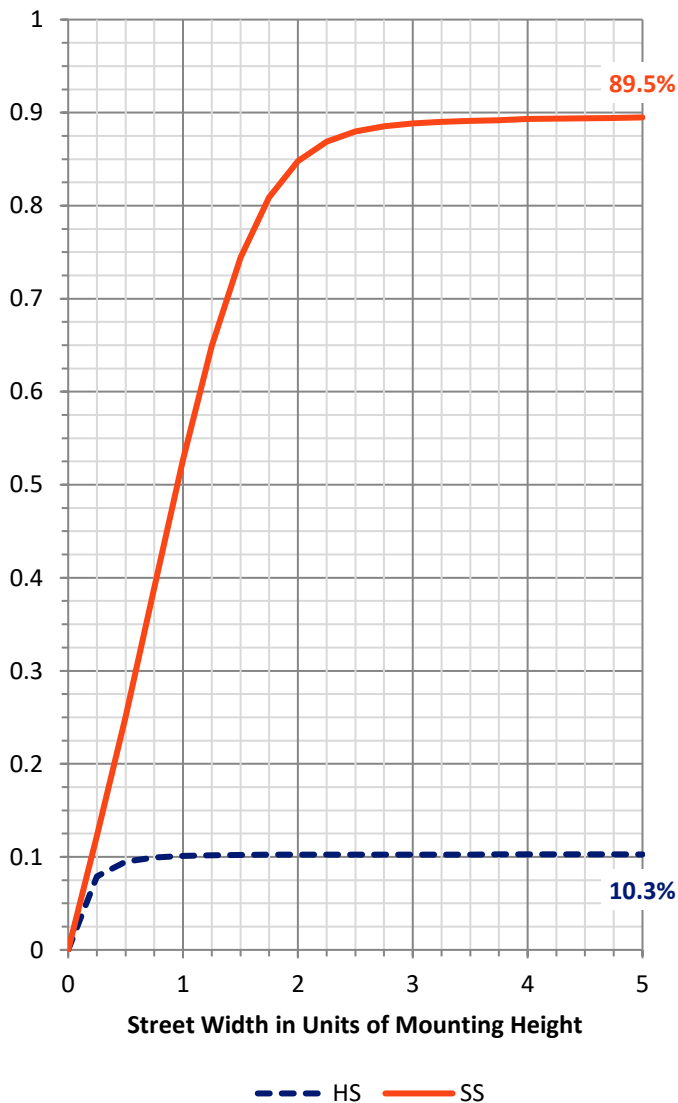
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4315.7	0.0	4315.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	37364.3	0.0	37364.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	41680.0	0.0	41680.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.8	1.0
10°-20°	1189.8	2.9
20°-30°	2064.9	5.0
30°-40°	3794.4	9.1
40°-50°	7142.9	17.1
50°-60°	12217.4	29.3
60°-70°	11698.2	28.1
70°-80°	2983.1	7.2
80°-90°	152.5	0.4
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°	41680.0	100.0
0°-180°	41680.0	100.0

Coefficient of Utilization



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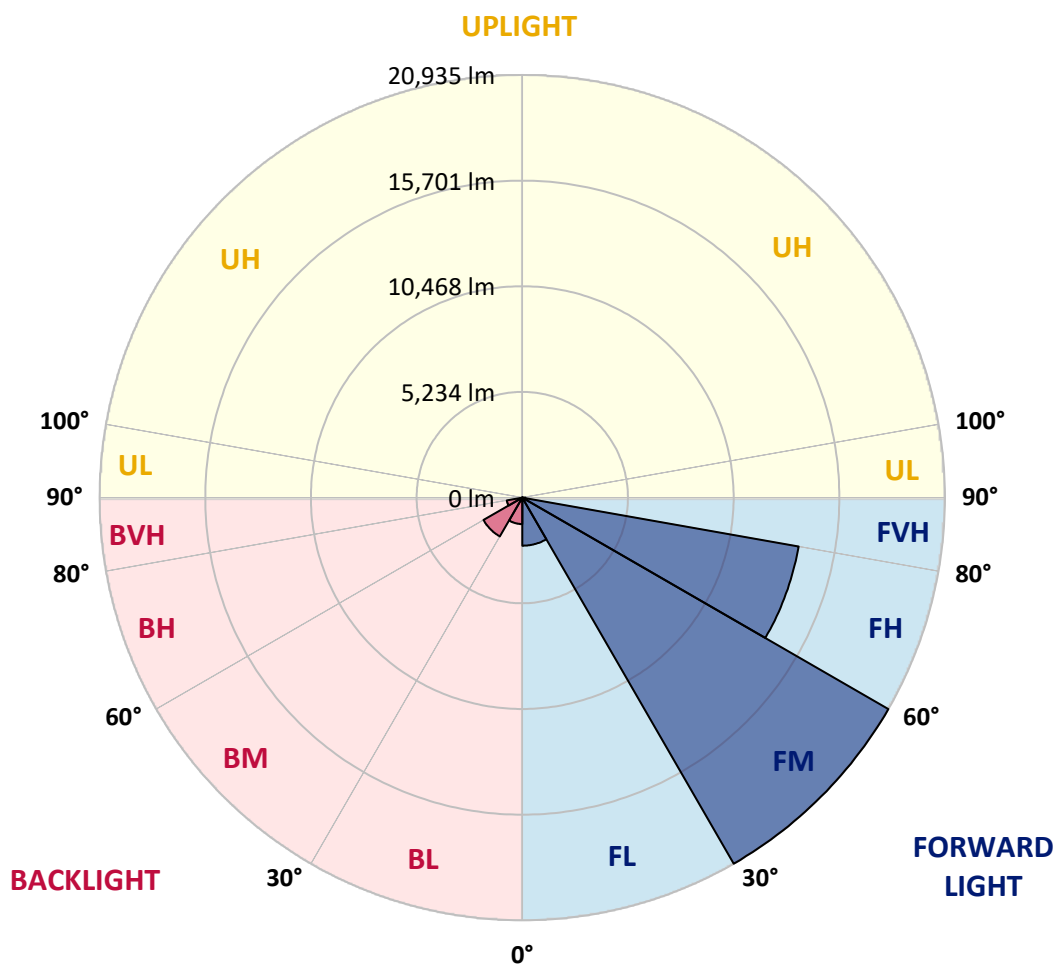
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2382.6	5.7			
FM	(30°-60°)	20935.0	50.2			
FH	(60°-80°)	13900.1	33.3			G5
FVH	(80°-90°)	146.6	0.4			G2/225
BL	(0°-30°)	1308.8	3.1	B3/2500		
BM	(30°-60°)	2219.7	5.3	B2/2500		
BH	(60°-80°)	781.2	1.9	B2/1000		G2/1000
BVH	(80°-90°)	5.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4666.2	4666.2	4666.2	4666.2	4666.2	4666.2	4666.2	4666.2	4666.2	4666.2	4666.2
2.5°	4550.1	4565.8	4581.5	4587.8	4609.8	4631.7	4647.4	4644.3	4669.4	4681.9	4681.9
5°	4368.1	4368.1	4408.9	4446.6	4509.3	4572.1	4631.7	4644.3	4691.3	4735.3	4751.0
7.5°	4214.4	4223.8	4255.2	4324.2	4408.9	4518.8	4638.0	4666.2	4747.8	4845.1	4885.9
10°	4142.2	4148.5	4189.3	4261.4	4368.1	4518.8	4685.1	4738.4	4863.9	5017.7	5074.2
12.5°	4126.5	4135.9	4176.7	4258.3	4380.7	4562.7	4788.6	4845.1	5027.1	5224.8	5309.5
15°	4154.7	4161.0	4201.8	4289.7	4424.6	4641.1	4926.7	5005.1	5221.7	5450.7	5560.6
17.5°	4255.2	4248.9	4277.1	4349.3	4499.9	4738.4	5093.0	5187.1	5441.3	5755.1	5827.3
20°	4681.9	4641.1	4616.0	4553.3	4612.9	4876.5	5293.8	5431.9	5745.7	6065.8	6116.0
22.5°	5601.4	5510.4	5331.5	5086.7	4898.5	5064.8	5535.5	5695.5	6100.3	6414.1	6414.1
25°	6771.8	6655.7	6476.9	5943.4	5482.1	5375.4	5808.5	6009.3	6486.3	6803.2	6699.7
27.5°	8237.3	8146.3	7798.0	7176.7	6470.6	5918.3	6125.4	6310.6	6828.3	7211.2	6994.6
30°	9429.8	9385.8	9100.3	8544.8	7766.6	6960.1	6715.4	6837.7	7283.3	7725.8	7503.0
32.5°	10437.1	10437.1	10145.2	9627.4	8899.4	8184.0	7716.4	7804.3	8231.0	8742.5	8328.3
35°	11544.8	11507.1	11271.8	10779.1	9963.2	9332.5	9141.1	9260.3	9646.3	10026.0	9006.1
37.5°	12709.0	12696.4	12451.7	11974.7	11309.4	10515.5	10066.8	10098.2	10295.8	10528.1	9800.0
40°	13973.6	13992.4	13672.4	13377.4	12749.8	11937.0	11077.2	10879.5	11064.7	11720.5	11265.5
42.5°	15467.3	15423.4	15285.3	14883.6	14378.4	13892.0	12859.6	12787.4	12950.6	13653.5	13160.9
45°	17202.6	17265.4	17026.9	16804.1	16465.2	16060.4	15197.4	15071.9	15250.8	16342.8	15643.0
47.5°	18941.1	18881.5	19035.2	18994.4	19176.4	18875.2	18112.7	17855.3	18285.2	19320.8	18291.5
50°	20265.3	20331.2	20651.3	21118.9	21900.2	22069.7	21338.5	21250.7	21442.1	22107.4	20660.7
52.5°	21125.2	21344.8	21846.9	23048.8	24457.7	25552.9	24997.5	24950.4	24872.0	25050.8	22926.4
55°	21686.9	21909.7	22565.5	24335.4	26761.0	28540.3	28568.5	28367.7	27849.9	27721.3	25044.5
57.5°	21341.7	21385.6	22320.7	24686.8	28038.2	30671.0	31593.6	31392.8	30435.7	29949.3	26914.8
60°	19182.7	19273.7	20576.0	23356.3	27482.8	31367.7	33598.8	33507.8	32459.7	31910.5	28370.8
62.5°	15357.5	15621.1	16961.0	20061.4	24900.2	30194.0	34411.5	34668.9	33853.0	33096.7	28829.0
63°	14654.6	14569.8	15985.1	19101.1	24216.1	29613.5	34424.1	34750.4	33915.7	33209.7	28703.5
65°	10848.1	11102.3	12021.8	15062.5	20152.4	26911.7	33649.0	34226.4	33683.5	32710.7	27313.3
67.5°	6090.9	6078.3	7095.1	9856.5	14105.4	21109.5	30426.3	31646.9	31534.0	29353.0	22640.8
70°	2981.1	3028.2	3445.5	5108.7	8180.8	14563.6	25283.0	26601.0	26641.8	23055.0	15655.6
72.5°	1349.3	1371.3	1669.4	2488.5	4204.9	7754.0	17422.3	18680.6	18448.4	14692.2	8645.2
75°	712.3	759.4	919.4	1252.1	2027.2	3197.6	9476.8	10694.4	10208.0	6712.2	3182.0
77.5°	527.2	542.9	624.5	797.1	1085.8	1245.8	4088.8	4863.9	4556.4	2428.8	1054.4
80°	386.0	398.5	464.4	564.8	684.1	633.9	1540.8	1766.7	1584.7	825.3	323.2
82.5°	235.4	238.5	338.9	420.5	429.9	354.6	508.4	546.0	571.1	464.4	175.7
85°	84.7	106.7	229.1	304.4	254.2	178.9	213.4	235.4	257.3	295.0	103.6
87.5°	9.4	12.6	109.8	147.5	72.2	65.9	78.5	87.9	94.1	109.8	50.2
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°	4666.2	4666.2	4666.2	4666.2	4666.2	4666.2	4666.2	4666.2	4666.2	4666.2	4666.2
2.5°	4694.5	4707.0	4697.6	4681.9	4678.8	4669.4	4650.5	4650.5	4650.5	4656.8	4650.5
5°	4763.5	4772.9	4751.0	4719.6	4685.1	4641.1	4594.1	4565.8	4562.7	4556.4	4540.7
7.5°	4895.3	4907.9	4857.7	4782.3	4688.2	4581.5	4481.1	4387.0	4343.0	4308.5	4308.5
10°	5086.7	5099.3	4998.9	4863.9	4675.7	4459.1	4220.6	4004.1	3834.7	3756.2	3737.4
12.5°	5315.8	5322.1	5155.8	4920.4	4609.8	4192.4	3684.0	3210.2	2880.7	2730.1	2714.4
15°	5566.8	5522.9	5303.3	4942.4	4421.5	3643.2	2764.6	2184.1	1842.0	1741.6	1779.3
17.5°	5821.0	5739.4	5416.2	4907.9	3997.8	2764.6	1857.7	1490.6	1383.9	1355.6	1355.6
20°	6059.5	5946.5	5497.8	4757.2	3263.5	1904.8	1377.6	1289.7	1270.9	1252.1	1255.2
22.5°	6298.0	6125.4	5570.0	4421.5	2432.0	1361.9	1233.2	1205.0	1179.9	1154.8	1151.7
25°	6530.2	6291.7	5598.2	3800.1	1656.9	1170.5	1126.5	1088.9	1038.7	1010.4	1004.2
27.5°	6771.8	6492.6	5579.4	3015.6	1208.1	1048.1	1004.2	950.8	891.2	841.0	841.0
30°	7236.3	6875.4	5513.5	2168.4	1016.7	922.6	866.1	781.4	715.5	665.3	662.1
32.5°	7870.2	7374.3	5287.6	1525.1	903.8	812.7	728.0	633.9	564.8	527.2	527.2
35°	8435.0	7876.4	4863.9	1123.4	812.7	706.1	602.5	511.5	458.2	433.0	423.6
37.5°	9294.8	8610.7	4280.3	913.2	724.9	611.9	505.2	420.5	376.6	357.7	357.7
40°	10584.5	9508.2	3564.8	800.2	640.2	520.9	420.5	354.6	320.1	298.1	298.1
42.5°	12184.9	10606.5	2839.9	718.6	561.7	448.7	351.5	301.3	269.9	254.2	251.0
45°	14199.5	11764.4	2187.2	643.3	498.9	382.8	298.1	254.2	222.8	213.4	216.5
47.5°	16302.0	12784.3	1694.5	577.4	433.0	323.2	254.2	219.7	197.7	185.1	185.1
50°	18097.0	13487.2	1286.6	502.1	382.8	273.0	222.8	197.7	178.9	172.6	169.5
52.5°	19596.9	13691.2	985.3	436.2	335.8	235.4	197.7	178.9	163.2	153.8	153.8
55°	20874.1	13512.3	772.0	367.1	282.4	204.0	175.7	160.0	141.2	131.8	128.7
57.5°	21621.0	12938.1	589.9	304.4	229.1	169.5	153.8	134.9	113.0	97.3	97.3
60°	21997.5	12103.3	451.9	251.0	175.7	134.9	125.5	100.4	78.5	65.9	62.8
62.5°	21545.7	10995.6	342.0	197.7	131.8	100.4	84.7	72.2	50.2	37.7	37.7
63°	21266.4	10675.5	329.5	188.3	122.4	94.1	78.5	65.9	43.9	34.5	31.4
65°	19386.7	9279.1	269.9	150.6	97.3	65.9	53.3	47.1	31.4	15.7	12.6
67.5°	15395.1	7098.2	213.4	113.0	69.0	47.1	31.4	28.2	9.4	0.0	0.0
70°	10408.8	4584.6	166.3	81.6	47.1	28.2	15.7	12.6	3.1	0.0	0.0
72.5°	5428.8	2350.4	128.7	59.6	28.2	18.8	9.4	3.1	0.0	0.0	0.0
75°	1920.5	800.2	94.1	37.7	18.8	9.4	3.1	0.0	0.0	0.0	0.0
77.5°	580.5	298.1	59.6	28.2	12.6	6.3	0.0	0.0	0.0	0.0	0.0
80°	204.0	109.8	34.5	18.8	9.4	3.1	0.0	0.0	0.0	0.0	0.0
82.5°	100.4	53.3	22.0	15.7	9.4	3.1	0.0	0.0	0.0	0.0	0.0
85°	56.5	34.5	18.8	15.7	9.4	6.3	0.0	0.0	0.0	0.0	0.0
87.5°	40.8	25.1	18.8	15.7	12.6	6.3	3.1	0.0	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)