

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: P456697

Luminaire Tested: **GALN-SA8A-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30230 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

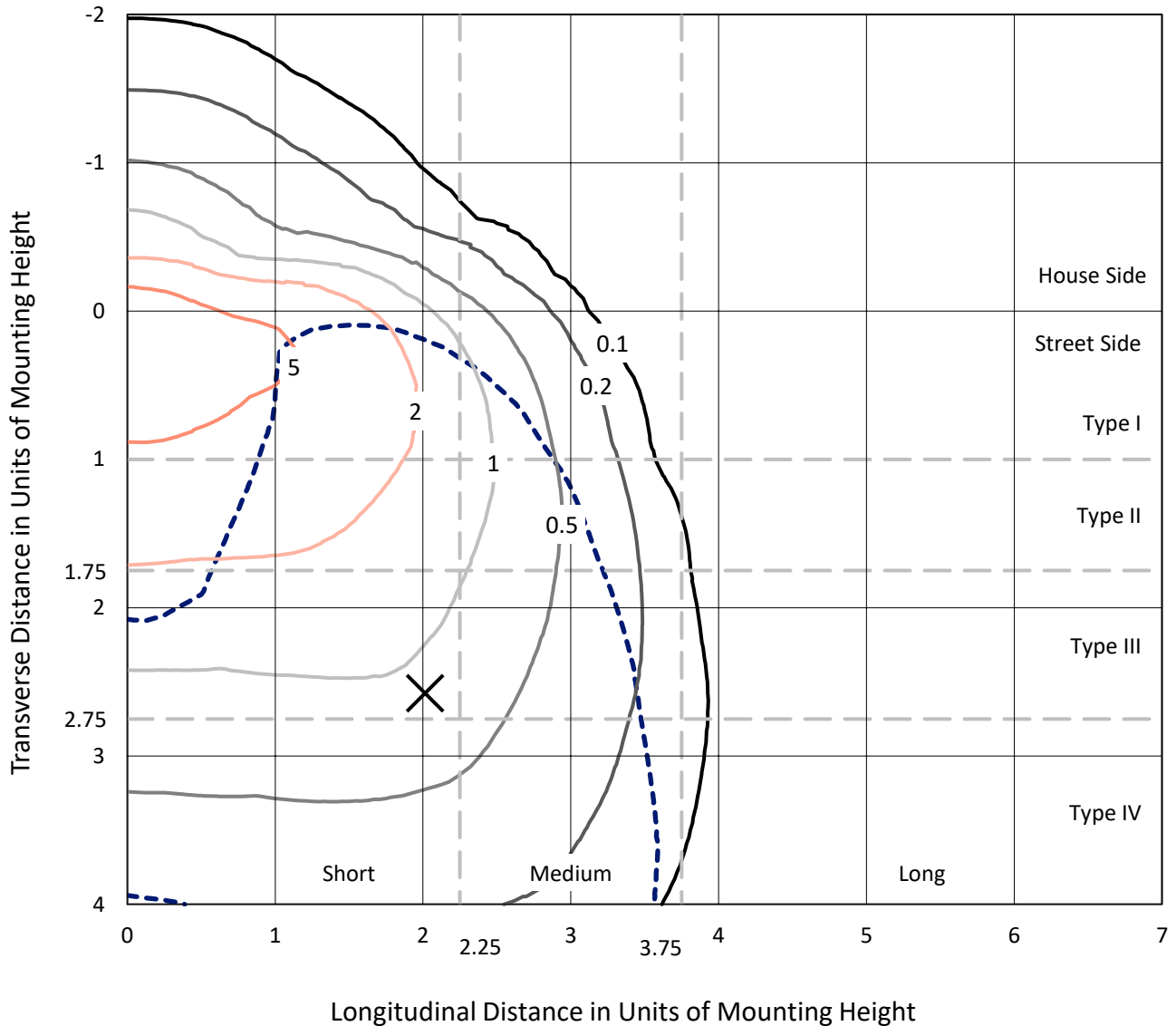
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456697
 CATALOG NUMBER: GALN-SA8A-727-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

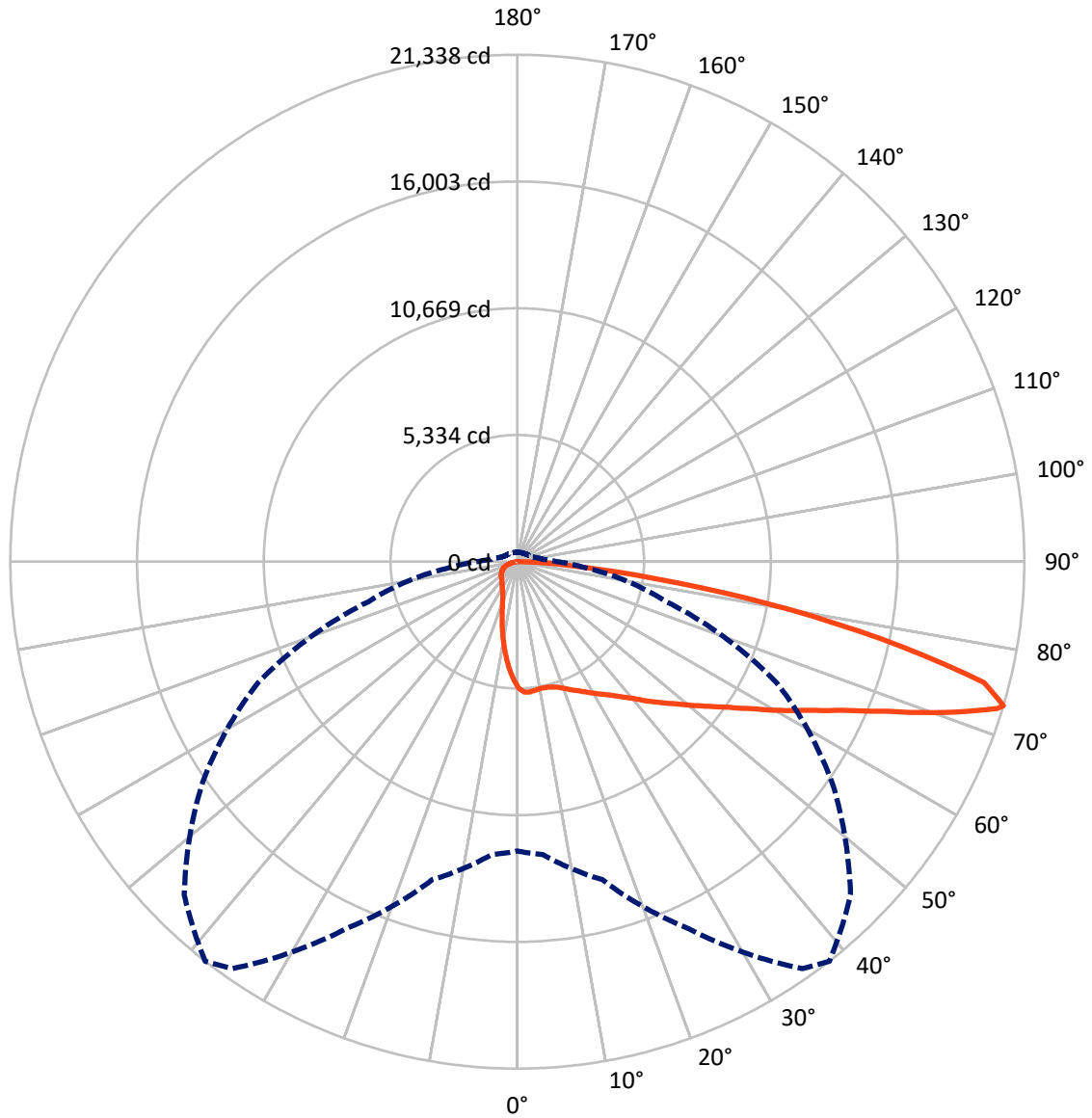
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P456697
CATALOG NUMBER: GALN-SA8A-727-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

REPORT NUMBER: P456697

CATALOG NUMBER: GALN-SA8A-727-U-SL4

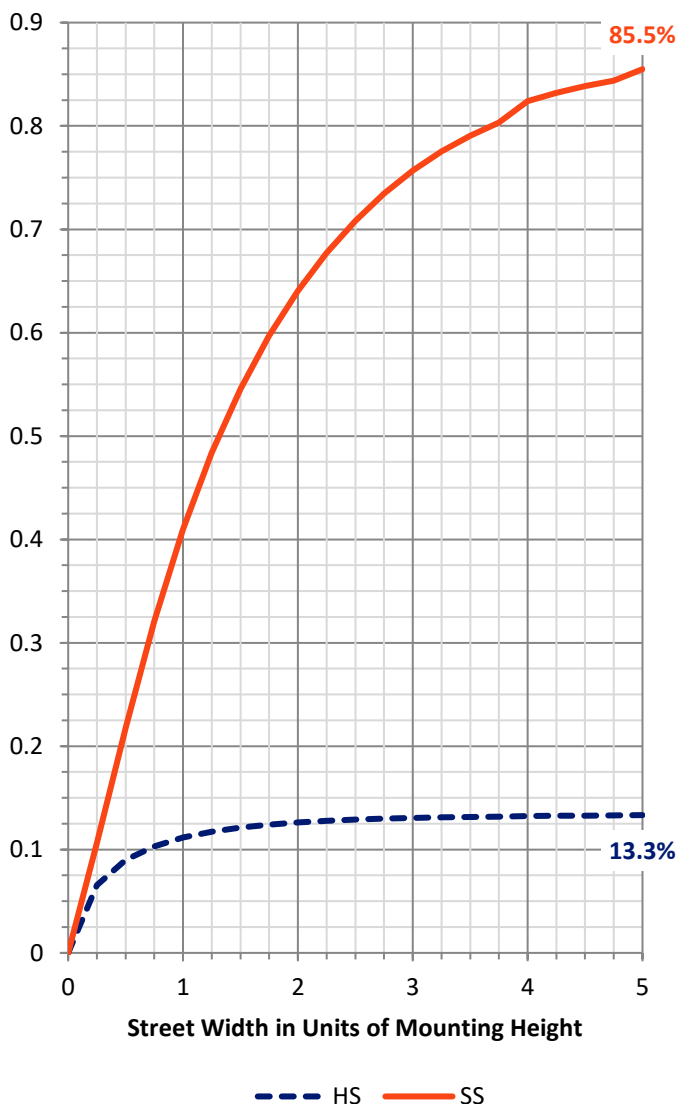
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4063.8	0.0	4063.8
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	26166.2	0.0	26166.2
	% Fixture	86.6	0.0	86.6
Total	Lumens	30230.0	0.0	30230.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.6	1.5
10°-20°	1188.8	3.9
20°-30°	1851.2	6.1
30°-40°	2715.2	9.0
40°-50°	4027.7	13.3
50°-60°	5706.5	18.9
60°-70°	7238.8	23.9
70°-80°	6025.8	19.9
80°-90°	1012.4	3.3
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°	30230.0	100.0
0°-180°	30230.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456697

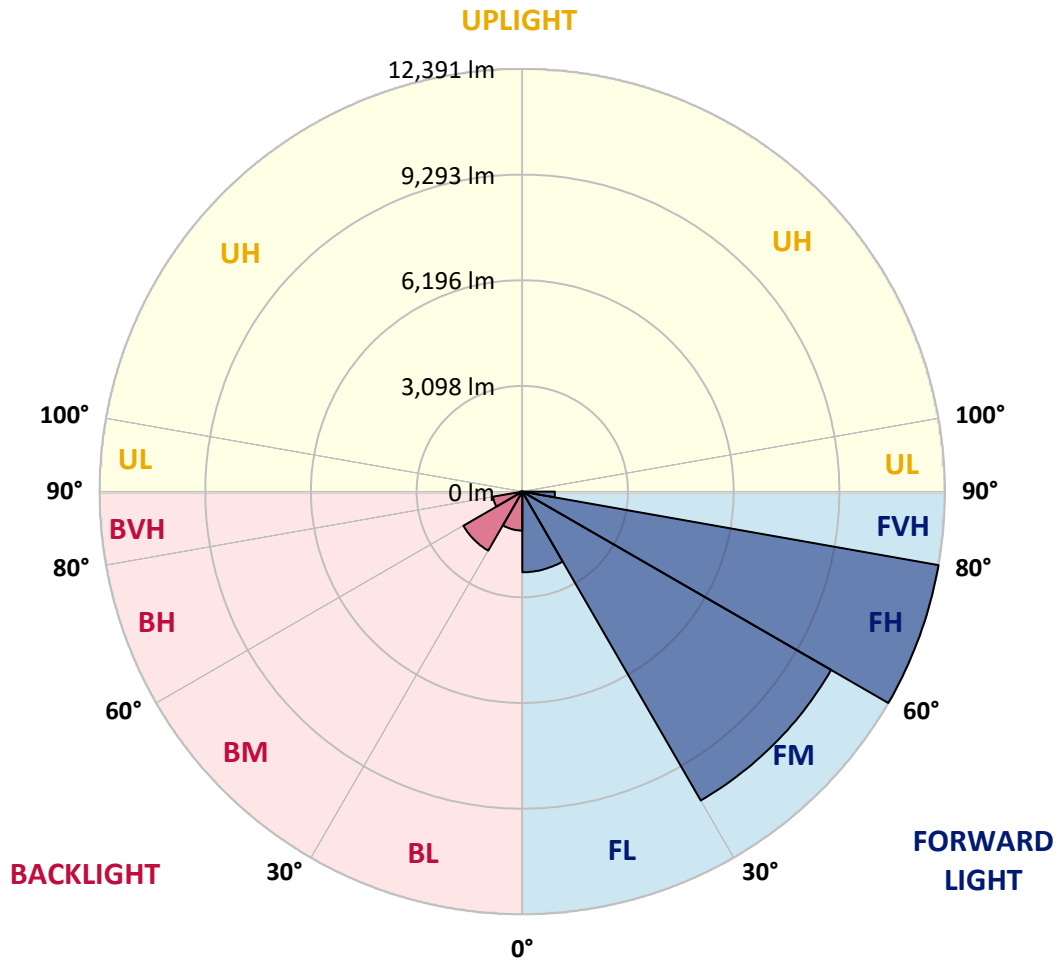
CATALOG NUMBER: GALN-SA8A-727-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2363.2	7.8			
FM	(30°-60°)	10454.3	34.6			
FH	(60°-80°)	12391.2	41.0			G5
FVH	(80°-90°)	957.5	3.2			G5
BL	(0°-30°)	1140.3	3.8	B3/2500		
BM	(30°-60°)	1995.1	6.6	B2/2500		
BH	(60°-80°)	873.5	2.9	B2/1000		G2/1000
BVH	(80°-90°)	54.9	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P456697

CATALOG NUMBER: GALN-SA8A-727-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	5310.9	5310.9	5310.9	5310.9	5310.9	5310.9	5310.9	5310.9	5310.9	5310.9	5310.9
2.5°	5524.3	5551.6	5537.9	5519.2	5507.2	5495.3	5478.2	5428.7	5389.4	5346.7	5280.2
5°	5565.3	5582.3	5570.4	5546.5	5519.2	5507.2	5474.8	5409.9	5346.7	5275.0	5176.0
7.5°	5541.4	5548.2	5534.5	5505.5	5481.6	5459.4	5421.9	5350.2	5273.3	5186.3	5056.5
10°	5456.0	5481.6	5481.6	5457.7	5433.8	5421.9	5384.3	5316.0	5246.0	5147.0	4993.4
12.5°	5386.0	5413.3	5435.5	5428.7	5427.0	5427.0	5398.0	5346.7	5264.8	5170.9	4988.3
15°	5338.2	5370.6	5418.4	5445.8	5462.8	5468.0	5456.0	5411.6	5328.0	5218.7	5008.7
17.5°	5328.0	5367.2	5454.3	5514.0	5558.4	5556.7	5553.3	5491.9	5399.7	5287.0	5034.3
20°	5374.1	5425.3	5546.5	5640.4	5705.2	5693.3	5674.5	5594.3	5486.7	5360.4	5058.2
22.5°	5512.3	5565.3	5698.4	5800.8	5864.0	5864.0	5807.7	5701.8	5587.5	5445.8	5090.7
25°	5710.4	5768.4	5910.1	6014.2	6043.3	6021.1	5964.7	5836.7	5705.2	5568.7	5159.0
27.5°	5952.8	6022.8	6154.2	6241.3	6232.8	6215.7	6157.6	5993.8	5862.3	5737.7	5275.0
30°	6254.9	6306.2	6442.7	6463.2	6432.5	6429.1	6347.1	6183.2	6060.3	5964.7	5440.6
32.5°	6540.0	6586.1	6695.4	6703.9	6649.3	6656.1	6579.3	6429.1	6359.1	6324.9	5718.9
35°	6842.2	6866.1	6960.0	6949.7	6913.9	6908.8	6878.0	6734.6	6756.8	6818.3	6113.3
37.5°	7094.9	7142.7	7195.6	7204.1	7202.4	7219.5	7240.0	7171.7	7299.7	7492.6	6630.5
40°	7327.0	7368.0	7446.5	7473.8	7540.4	7574.6	7644.6	7646.3	7941.6	8259.1	7267.3
42.5°	7484.1	7554.1	7700.9	7750.4	7912.6	8015.0	8119.1	8230.1	8658.6	9066.6	8018.4
45°	7620.7	7712.8	7957.0	8110.6	8330.8	8455.4	8675.7	8907.8	9524.1	10058.4	8781.5
47.5°	7827.2	7909.2	8189.1	8460.6	8793.5	8936.9	9266.3	9612.9	10418.6	11004.2	9512.2
50°	8114.0	8163.5	8448.6	8890.8	9315.8	9500.2	9935.5	10435.7	11374.6	11938.0	10154.0
52.5°	8481.0	8501.5	8728.6	9317.5	9877.5	10106.2	10683.3	11267.1	12211.1	12748.9	10662.8
55°	8914.7	8880.5	9058.1	9769.9	10519.4	10818.1	11437.8	12108.7	13151.8	13404.4	11033.2
57.5°	9343.2	9290.2	9431.9	10319.6	11311.5	11671.7	12393.8	12975.9	13991.7	14017.3	11292.7
60°	9797.3	9758.0	9927.0	10964.9	12282.8	12709.6	13377.1	13875.6	14804.3	14444.1	11333.7
62.5°	10263.3	10200.1	10440.8	11690.5	13377.1	13764.6	14411.6	14831.6	15601.5	14602.8	10939.3
65°	10715.7	10686.7	11058.8	12552.6	14623.3	15063.8	15692.0	15977.1	16240.0	14363.8	9961.1
67.5°	11197.1	11255.1	11849.2	13703.2	16248.5	16801.6	17479.4	17211.3	16422.6	13232.0	8388.9
70°	11931.2	11968.7	12887.2	15210.6	18343.2	19010.7	19338.4	17650.1	15541.8	11082.7	6306.2
72.5°	12247.0	12412.6	13814.1	16793.1	20722.9	21130.9	19963.2	16671.9	12946.9	7528.5	3313.6
73°	12177.0	12375.0	13856.8	17033.8	20909.0	21337.5	19830.1	16168.3	12035.3	6483.7	2840.7
75°	11304.7	11548.8	13302.0	16832.4	20547.1	20291.0	17689.3	13780.0	8132.8	2948.2	1294.0
77.5°	8919.8	8989.8	10539.9	13592.2	16180.2	15705.6	13238.8	8612.5	3322.1	1096.0	734.1
80°	4474.4	4732.2	5940.8	7786.2	10819.8	10664.5	8356.4	4073.2	1384.5	643.6	486.5
82.5°	2152.7	2335.4	2893.6	3796.7	5978.4	5836.7	4138.1	2226.1	879.2	375.6	286.8
85°	1386.2	1522.8	1842.0	1811.3	2458.3	2347.3	1859.1	1684.9	520.7	196.3	199.7
87.5°	915.0	1002.1	1201.8	961.1	894.5	809.2	821.1	949.2	102.4	75.1	27.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P456697
 CATALOG NUMBER: GALN-SA8A-727-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5310.9	5310.9	5310.9	5310.9	5310.9	5310.9	5310.9	5310.9	5310.9	5310.9	5310.9
2.5°	5252.9	5230.7	5157.3	5085.6	5017.3	4952.4	4909.7	4853.4	4815.8	4826.1	4841.4
5°	5121.4	5071.9	4942.2	4815.8	4696.3	4554.6	4440.3	4348.1	4278.1	4252.5	4247.4
7.5°	4983.1	4899.5	4713.4	4496.6	4293.4	4117.6	3914.5	3813.7	3695.9	3655.0	3641.3
10°	4899.5	4786.8	4525.6	4223.5	3917.9	3626.0	3405.7	3226.5	3064.3	3033.6	3018.2
12.5°	4875.6	4727.1	4375.4	3986.2	3579.9	3221.4	2895.3	2659.7	2502.7	2466.8	2413.9
15°	4861.9	4677.6	4235.4	3747.2	3231.6	2794.6	2451.4	2176.6	2033.2	1937.6	1939.3
17.5°	4850.0	4621.2	4078.3	3486.0	2931.2	2427.5	2048.6	1801.0	1669.6	1618.4	1613.2
20°	4832.9	4554.6	3897.4	3211.1	2588.0	2092.9	1749.8	1565.4	1476.7	1434.0	1432.3
22.5°	4826.1	4489.8	3719.8	2931.2	2284.1	1835.2	1551.8	1422.0	1365.7	1336.7	1336.7
25°	4843.1	4443.7	3533.8	2664.8	2014.4	1615.0	1415.2	1326.4	1294.0	1278.6	1273.5
27.5°	4896.1	4423.2	3349.4	2398.5	1766.9	1464.7	1323.0	1261.6	1237.7	1225.7	1227.4
30°	4996.8	4421.5	3168.4	2135.6	1582.5	1350.3	1249.6	1206.9	1188.2	1181.3	1179.6
32.5°	5159.0	4459.0	2990.9	1918.8	1427.2	1254.7	1181.3	1150.6	1142.1	1137.0	1135.2
35°	5433.8	4564.9	2815.1	1720.8	1307.7	1169.4	1116.5	1101.1	1089.2	1094.3	1096.0
37.5°	5804.3	4747.5	2647.8	1565.4	1217.2	1106.2	1061.8	1048.2	1041.4	1046.5	1051.6
40°	6301.0	5010.4	2507.8	1440.8	1152.3	1053.3	1014.0	1002.1	995.3	1003.8	1005.5
42.5°	6849.0	5314.3	2391.7	1343.5	1099.4	1008.9	971.4	957.7	952.6	957.7	959.4
45°	7412.4	5667.7	2331.9	1273.5	1055.0	976.5	937.2	921.9	909.9	906.5	911.6
47.5°	7967.2	5975.0	2330.2	1230.8	1019.2	947.5	904.8	887.7	872.3	863.8	862.1
50°	8419.6	6219.1	2371.2	1212.1	988.4	915.0	872.3	855.3	834.8	817.7	821.1
52.5°	8761.0	6377.9	2390.0	1203.5	971.4	880.9	838.2	822.8	798.9	776.7	776.7
55°	8981.2	6415.4	2343.9	1195.0	957.7	845.0	798.9	785.3	761.4	739.2	739.2
57.5°	9056.4	6299.3	2178.3	1174.5	944.0	814.3	759.7	747.7	728.9	706.8	703.3
60°	8882.2	5906.7	1888.1	1113.1	916.7	781.9	717.0	711.9	705.0	686.3	684.6
62.5°	8211.3	5073.6	1572.3	1032.8	870.6	747.7	677.7	686.3	691.4	681.1	679.4
65°	7094.9	4119.3	1343.5	921.9	809.2	699.9	635.1	657.2	670.9	670.9	667.5
67.5°	5754.8	3163.3	1131.8	826.3	732.4	635.1	587.3	604.3	614.6	611.2	619.7
70°	4090.3	2142.5	921.9	717.0	635.1	561.6	525.8	525.8	519.0	515.6	515.6
72.5°	1983.7	1224.0	747.7	599.2	541.2	479.7	450.7	438.7	425.1	423.4	414.8
73°	1657.6	1097.7	713.6	577.0	519.0	467.8	435.3	416.5	408.0	401.2	399.5
75°	1008.9	833.1	595.8	486.5	442.1	402.9	373.9	356.8	348.3	343.1	341.4
77.5°	664.1	621.4	462.6	372.2	338.0	314.1	302.2	285.1	280.0	273.1	273.1
80°	495.1	474.6	331.2	262.9	242.4	221.9	218.5	215.1	201.4	192.9	189.5
82.5°	319.2	338.0	225.3	175.8	153.6	136.6	138.3	143.4	129.7	117.8	114.4
85°	227.0	244.1	136.6	80.2	64.9	56.3	63.2	56.3	58.0	46.1	37.6
87.5°	37.6	64.9	23.9	10.2	5.1	3.4	0.0	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)