

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: P942979

Luminaire Tested: **GALN-SB7B-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942979
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB7B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36712 lumens
Efficiency: N/A
Efficacy: 143.0 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): 256.7
Input Voltage (V): NR
Input Current (Ain): 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

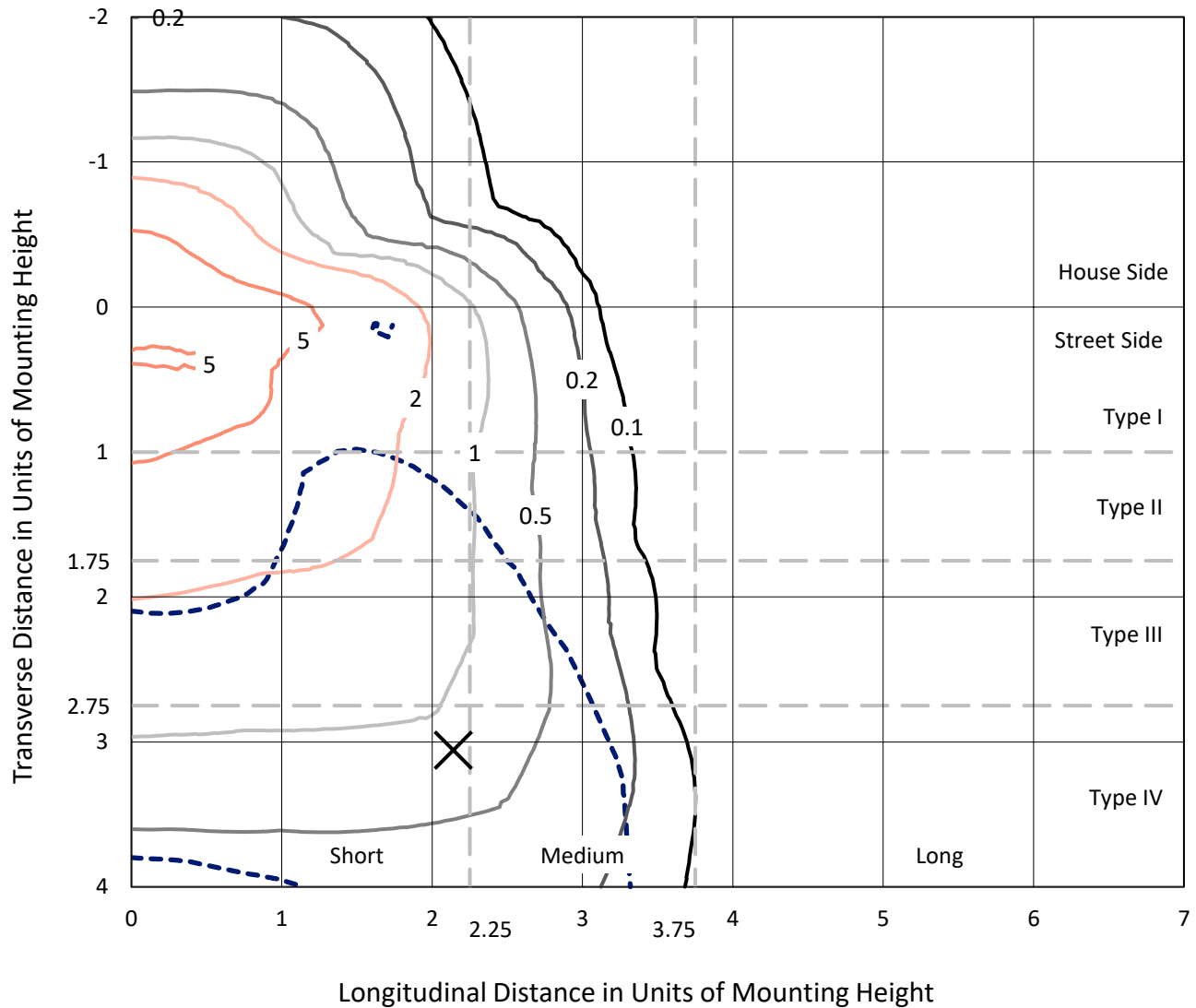


REPORT NUMBER: P942979

CATALOG NUMBER: GALN-SB7B-727-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

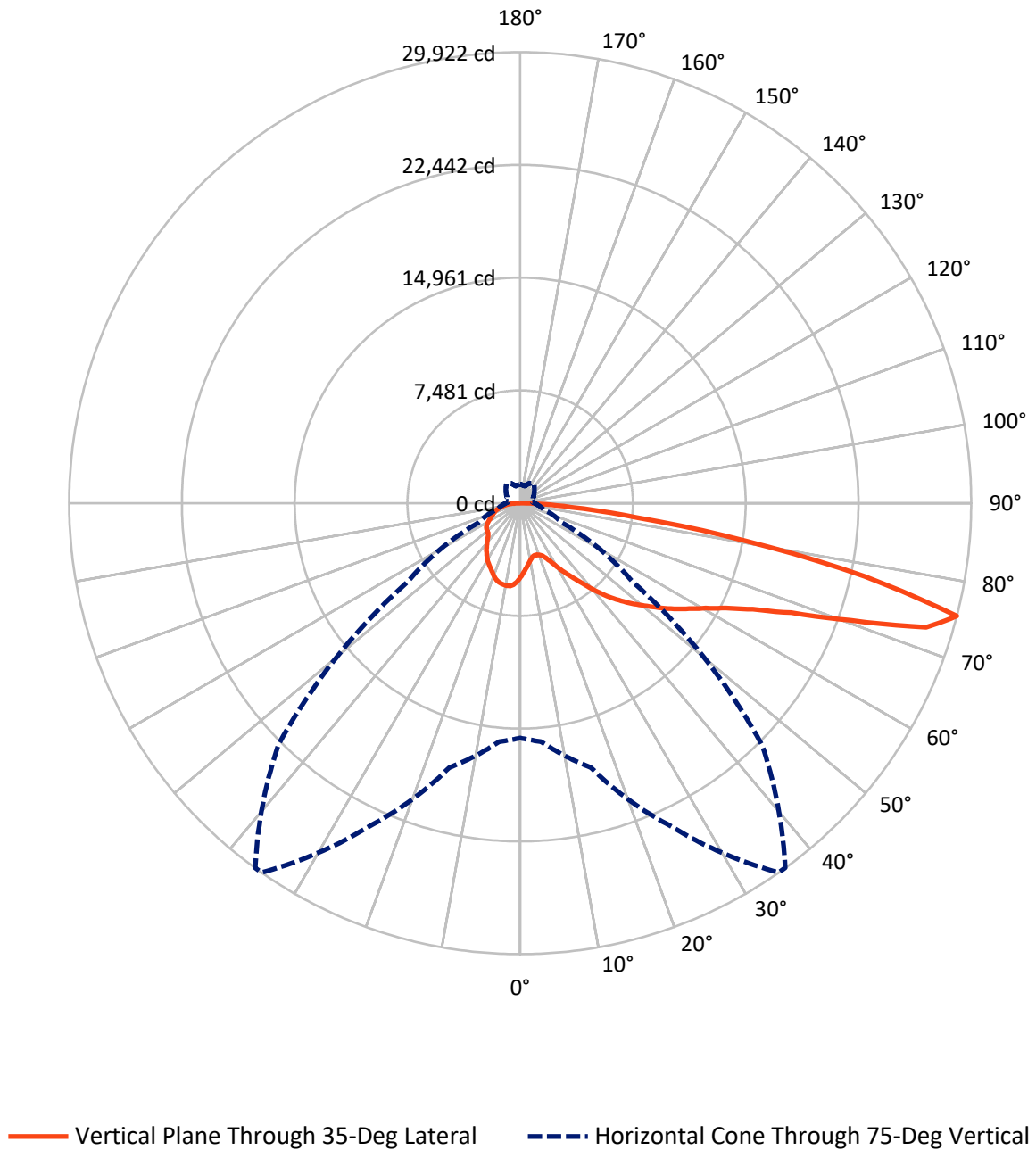


Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
Type IV - Short - N/A

REPORT NUMBER: P942979

CATALOG NUMBER: GALN-SB7B-727-U-T4FT

Luminous Intensity Polar Plot



REPORT NUMBER: P942979

CATALOG NUMBER: GALN-SB7B-727-U-T4FT

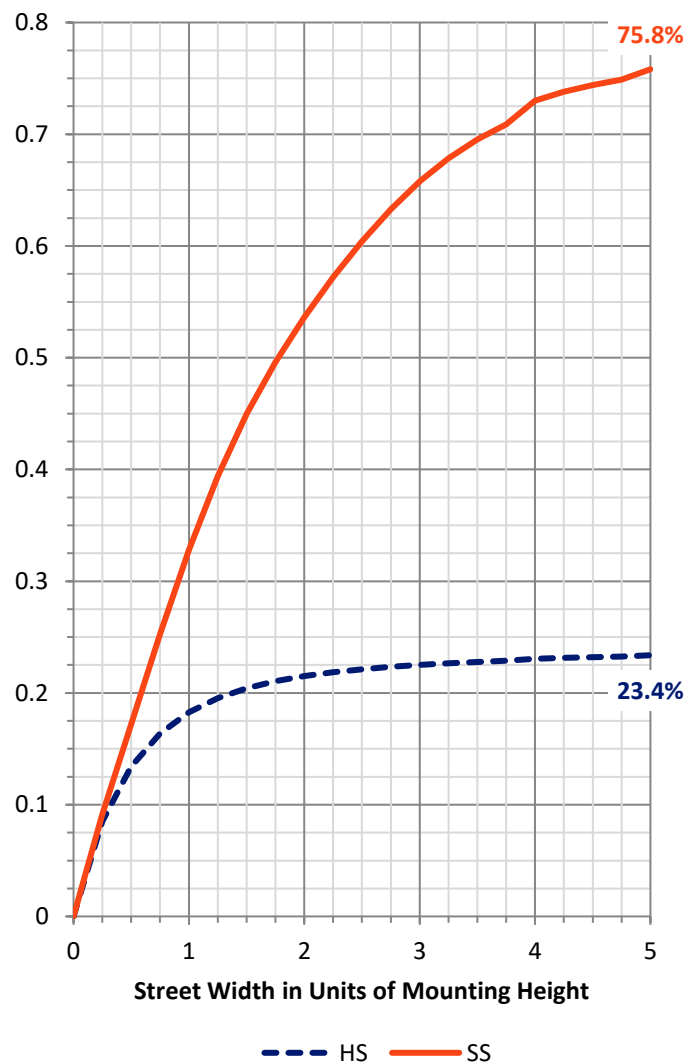
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8736.5	0.0	8736.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	27975.5	0.0	27975.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	36712.0	0.0	36712.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	463.2	1.3
10°-20°	1336.0	3.6
20°-30°	2243.5	6.1
30°-40°	3486.8	9.5
40°-50°	5175.3	14.1
50°-60°	7144.8	19.5
60°-70°	8668.3	23.6
70°-80°	7163.7	19.5
80°-90°	1030.4	2.8
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°	36712.0	100.0
0°-180°	36712.0	100.0

Coefficient of Utilization



REPORT NUMBER: P942979

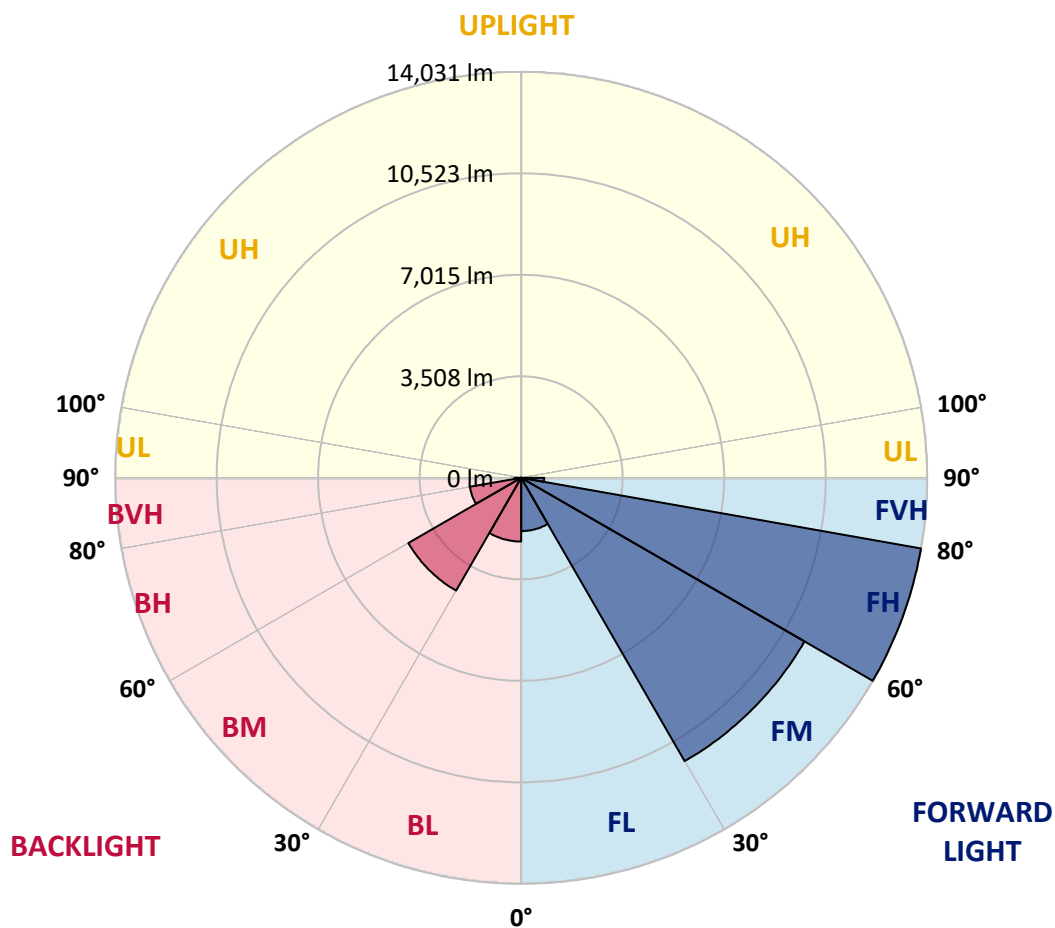
CATALOG NUMBER: GALN-SB7B-727-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1841.0	5.0			
FM	(30°-60°)	11305.3	30.8			
FH	(60°-80°)	14030.8	38.2			G5
FVH	(80°-90°)	798.3	2.2			G5
BL	(0°-30°)	2201.7	6.0	B3/2500		
BM	(30°-60°)	4501.6	12.3	B3/5000		
BH	(60°-80°)	1801.2	4.9	B3/2500		G3/2500
BVH	(80°-90°)	232.0	0.6			G3/500
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: P942979

CATALOG NUMBER: GALN-SB7B-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4892.1	4892.1	4892.1	4892.1	4892.1	4892.1	4892.1	4892.1	4892.1	4892.1	4892.1
2.5°	4511.1	4538.9	4550.8	4544.8	4574.6	4570.6	4612.3	4663.9	4735.3	4804.8	4906.0
5°	4163.8	4193.5	4219.3	4243.1	4300.7	4318.6	4384.1	4483.3	4614.3	4747.2	4914.0
7.5°	3840.3	3866.1	3905.8	3949.4	4046.7	4064.5	4173.7	4328.5	4511.1	4705.6	4935.8
10°	3576.3	3602.1	3643.8	3693.4	3814.5	3836.3	3975.2	4181.6	4419.8	4665.9	4959.6
12.5°	3463.2	3471.1	3494.9	3544.6	3649.7	3663.6	3816.5	4052.6	4330.5	4636.1	4995.3
15°	3457.2	3473.1	3475.1	3500.9	3588.2	3594.2	3735.1	3969.3	4274.9	4630.2	5048.9
17.5°	3516.8	3528.7	3510.8	3526.7	3600.1	3610.0	3721.2	3929.6	4257.0	4656.0	5140.2
20°	3675.5	3685.5	3631.9	3610.0	3663.6	3671.6	3780.7	3955.4	4274.9	4709.5	5265.2
22.5°	4012.9	4018.9	3887.9	3798.6	3802.6	3806.5	3901.8	4060.6	4344.4	4806.8	5424.0
25°	4538.9	4534.9	4326.5	4153.8	4054.6	4032.8	4096.3	4231.2	4461.5	4935.8	5628.4
27.5°	5154.1	5124.3	4915.9	4657.9	4441.6	4409.9	4396.0	4453.5	4628.2	5106.5	5878.5
30°	5848.7	5820.9	5596.7	5259.3	4959.6	4908.0	4777.0	4747.2	4876.2	5338.7	6225.8
32.5°	6610.8	6593.0	6325.0	5916.2	5515.3	5455.8	5235.5	5156.1	5257.3	5689.9	6710.0
35°	7249.9	7234.0	7011.7	6591.0	6100.8	6027.3	5803.1	5713.8	5765.4	6140.5	7343.1
37.5°	7827.4	7819.5	7628.9	7297.5	6791.4	6702.1	6450.1	6420.3	6410.4	6733.9	8111.2
40°	8363.2	8343.4	8144.9	7970.3	7595.2	7513.8	7291.5	7265.7	7190.3	7464.2	8980.5
42.5°	8956.7	8905.1	8617.3	8535.9	8434.7	8367.2	8234.2	8238.2	8071.5	8287.8	9901.3
45°	9440.9	9411.1	9115.4	9067.8	9176.9	9149.2	9264.3	9294.0	8970.5	9151.1	10857.9
47.5°	9960.9	9933.1	9683.0	9649.3	9945.0	9952.9	10359.8	10369.7	9847.8	10048.2	11816.5
50°	10601.9	10562.2	10314.1	10355.8	10687.3	10717.0	11461.3	11393.8	10655.5	10959.1	12767.1
52.5°	11024.6	11048.5	10994.9	11062.3	11514.8	11542.6	12544.9	12372.2	11455.3	11858.2	13699.9
55°	11336.2	11383.9	11550.6	11705.4	12388.1	12415.9	13567.0	13303.0	12118.2	12691.7	14577.1
57.5°	11737.1	11669.6	11981.2	12282.9	13217.7	13291.1	14561.3	14200.1	12705.6	13410.2	15178.5
60°	12312.7	12265.0	12507.2	12953.7	14146.5	14263.6	15613.1	15007.8	13136.3	13979.8	15295.6
62.5°	13479.6	13360.6	13398.3	13793.2	15317.4	15472.2	16799.9	15712.3	13350.6	14202.0	14668.4
65°	15224.1	15019.7	14829.2	15103.1	16966.6	17119.5	18139.6	16266.1	13271.2	13771.4	13003.3
67.5°	17421.1	17218.7	16984.5	17242.5	19395.8	19516.9	19792.8	16577.6	12646.1	12112.2	10060.1
70°	19233.1	19157.7	19437.5	20499.3	23275.8	23279.8	21912.3	16319.6	10933.3	8587.5	5820.9
72.5°	18992.9	18947.3	20421.9	23704.5	28165.9	28060.7	23918.8	14366.8	7365.0	3874.0	2181.1
75°	15581.4	15877.1	18161.4	23646.9	29922.3	29908.4	22690.3	9133.3	3046.4	1605.6	1127.3
77.5°	8355.3	8823.7	11790.7	17458.8	23359.1	23710.4	15952.5	3195.3	1307.9	1028.0	780.0
80°	2724.9	3133.7	4699.6	8889.2	15178.5	15113.0	6837.1	1254.3	895.1	728.4	539.8
82.5°	1157.0	1204.7	2099.7	4197.5	7789.7	7668.6	2177.1	720.4	629.1	498.1	333.4
85°	452.5	506.1	926.8	1941.0	3373.9	3300.4	785.9	357.2	402.9	325.5	198.5
87.5°	148.8	180.6	331.4	664.9	1049.9	1012.2	192.5	123.0	174.6	148.8	71.4
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: P942979

CATALOG NUMBER: GALN-SB7B-727-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4892.1	4892.1	4892.1	4892.1	4892.1	4892.1	4892.1	4892.1	4892.1	4892.1	4892.1
2.5°	4933.8	4965.6	5003.3	5058.8	5106.5	5146.2	5187.8	5213.6	5223.6	5253.3	5251.3
5°	4969.5	5039.0	5132.3	5223.6	5312.9	5366.4	5414.1	5437.9	5459.7	5475.6	5479.6
7.5°	5029.1	5118.4	5265.2	5384.3	5459.7	5503.4	5535.1	5527.2	5535.1	5539.1	5545.1
10°	5080.7	5205.7	5380.3	5493.5	5551.0	5553.0	5545.1	5517.3	5503.4	5505.4	5509.3
12.5°	5142.2	5281.1	5469.7	5564.9	5580.8	5537.1	5503.4	5455.8	5437.9	5430.0	5426.0
15°	5225.5	5384.3	5566.9	5602.6	5562.9	5507.4	5449.8	5372.4	5332.7	5301.0	5310.9
17.5°	5326.8	5501.4	5642.3	5616.5	5531.2	5439.9	5346.6	5229.5	5148.1	5114.4	5116.4
20°	5467.7	5624.5	5699.9	5586.7	5457.7	5318.8	5160.0	5017.2	4941.7	4908.0	4904.0
22.5°	5638.3	5789.2	5755.4	5535.1	5352.6	5130.3	4931.8	4826.6	4788.9	4765.1	4769.1
25°	5842.8	5971.8	5795.1	5459.7	5179.9	4880.2	4727.4	4693.7	4675.8	4657.9	4657.9
27.5°	6108.7	6178.2	5824.9	5348.6	4910.0	4614.3	4558.7	4564.7	4558.7	4528.9	4534.9
30°	6460.0	6446.1	5852.7	5168.0	4600.4	4374.1	4378.1	4403.9	4407.9	4388.0	4397.9
32.5°	6922.4	6781.5	5866.6	4933.8	4304.7	4163.8	4167.7	4195.5	4215.4	4181.6	4197.5
35°	7482.1	7172.5	5844.7	4640.1	4076.4	3963.3	3933.5	3941.5	3947.4	3915.7	3937.5
37.5°	8135.0	7611.1	5747.5	4314.6	3887.9	3766.8	3703.3	3649.7	3618.0	3588.2	3608.1
40°	8851.5	8089.4	5568.9	3997.1	3677.5	3558.4	3463.2	3362.0	3254.8	3215.1	3233.0
42.5°	9601.7	8581.6	5352.6	3693.4	3435.4	3338.2	3236.9	3090.1	2929.3	2847.9	2857.9
45°	10379.6	9085.7	5140.2	3393.7	3187.3	3145.6	3028.6	2851.9	2677.3	2574.1	2566.1
47.5°	11141.7	9562.0	4828.6	3092.1	2955.1	3000.8	2909.5	2746.7	2552.2	2389.5	2371.6
50°	11870.1	10008.5	4318.6	2786.4	2766.6	2957.1	2869.8	2635.6	2413.3	2204.9	2187.1
52.5°	12592.5	10369.7	3665.6	2508.6	2665.4	2945.2	2818.2	2560.2	2288.3	2070.0	2046.2
55°	13205.8	10556.3	3036.5	2270.4	2518.5	2844.0	2756.7	2470.9	2111.7	1879.4	1859.6
57.5°	13555.0	10405.4	2512.5	2036.2	2316.1	2677.3	2651.5	2280.3	1901.3	1722.7	1698.8
60°	13404.2	9794.2	2083.9	1831.8	2123.6	2496.7	2468.9	2091.8	1740.5	1571.8	1548.0
62.5°	12572.7	8629.2	1744.5	1653.2	1948.9	2312.1	2286.3	1946.9	1617.5	1454.7	1428.9
65°	10897.6	7019.6	1480.5	1504.4	1772.3	2089.8	2127.5	1825.9	1520.2	1361.5	1335.7
67.5°	8311.6	5084.6	1274.1	1375.4	1599.6	1871.5	1980.7	1738.5	1438.9	1288.0	1264.2
70°	4737.3	2887.6	1099.5	1250.3	1446.8	1669.1	1867.5	1669.1	1351.5	1226.5	1210.6
72.5°	1796.1	1325.7	950.6	1125.3	1299.9	1498.4	1742.5	1559.9	1250.3	1157.0	1141.2
75°	958.6	807.7	799.8	978.4	1131.2	1331.7	1585.7	1452.8	1174.9	1222.5	1262.2
77.5°	652.9	571.6	668.8	837.5	946.7	1147.1	1419.0	1290.0	1018.1	1014.1	934.8
80°	452.5	404.9	543.8	674.8	732.3	964.5	1238.4	1107.4	829.6	774.0	740.3
82.5°	271.9	264.0	406.8	504.1	518.0	744.2	1026.1	928.8	678.7	591.4	595.4
85°	148.8	156.8	260.0	295.7	301.7	520.0	803.8	718.4	522.0	438.6	442.6
87.5°	41.7	53.6	95.3	117.1	144.9	269.9	478.3	426.7	262.0	182.6	182.6
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)