

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: P456016

Luminaire Tested: **GALN-SA7B-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P456016
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33072 lumens
Efficiency: N/A
Efficacy: 115.6 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

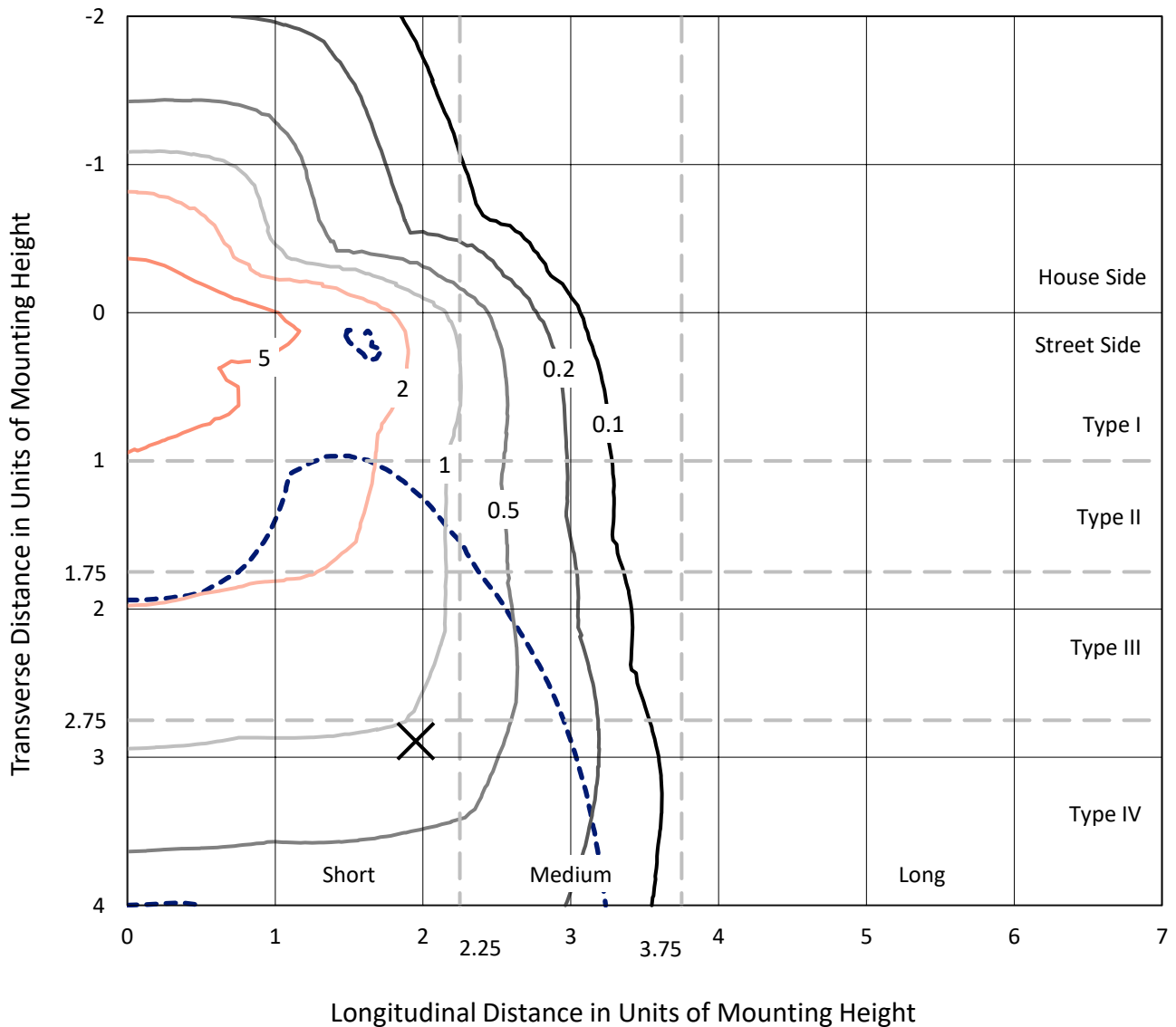
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P456016
 CATALOG NUMBER: GALN-SA7B-727-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

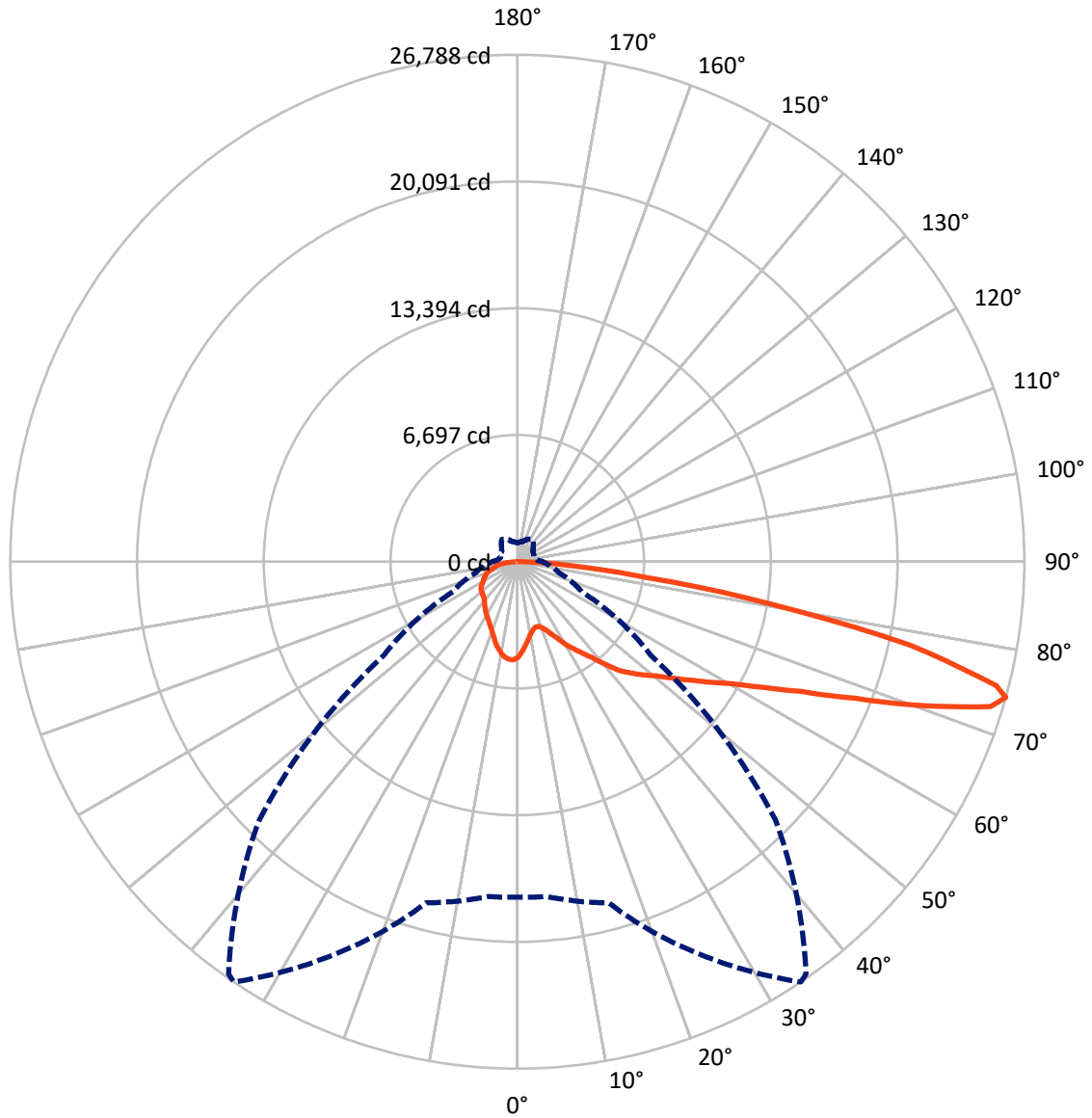
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P456016
CATALOG NUMBER: GALN-SA7B-727-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P456016

CATALOG NUMBER: GALN-SA7B-727-U-T4FT

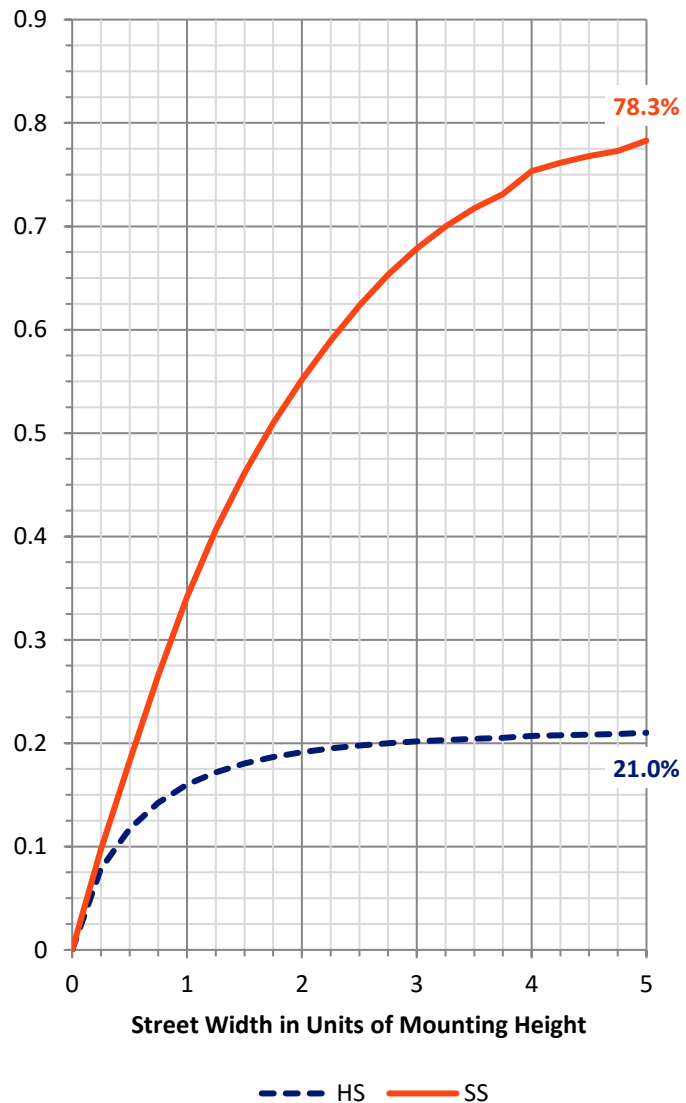
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7038.0	0.0	7038.0
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	26034.0	0.0	26034.0
	% Fixture	78.7	0.0	78.7
Total	Lumens	33072.0	0.0	33072.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.2	1.4
10°-20°	1257.1	3.8
20°-30°	2072.6	6.3
30°-40°	3104.6	9.4
40°-50°	4513.2	13.6
50°-60°	6303.9	19.1
60°-70°	7892.1	23.9
70°-80°	6526.2	19.7
80°-90°	943.0	2.9
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°	33072.0	100.0
0°-180°	33072.0	100.0

Coefficient of Utilization



REPORT NUMBER: P456016

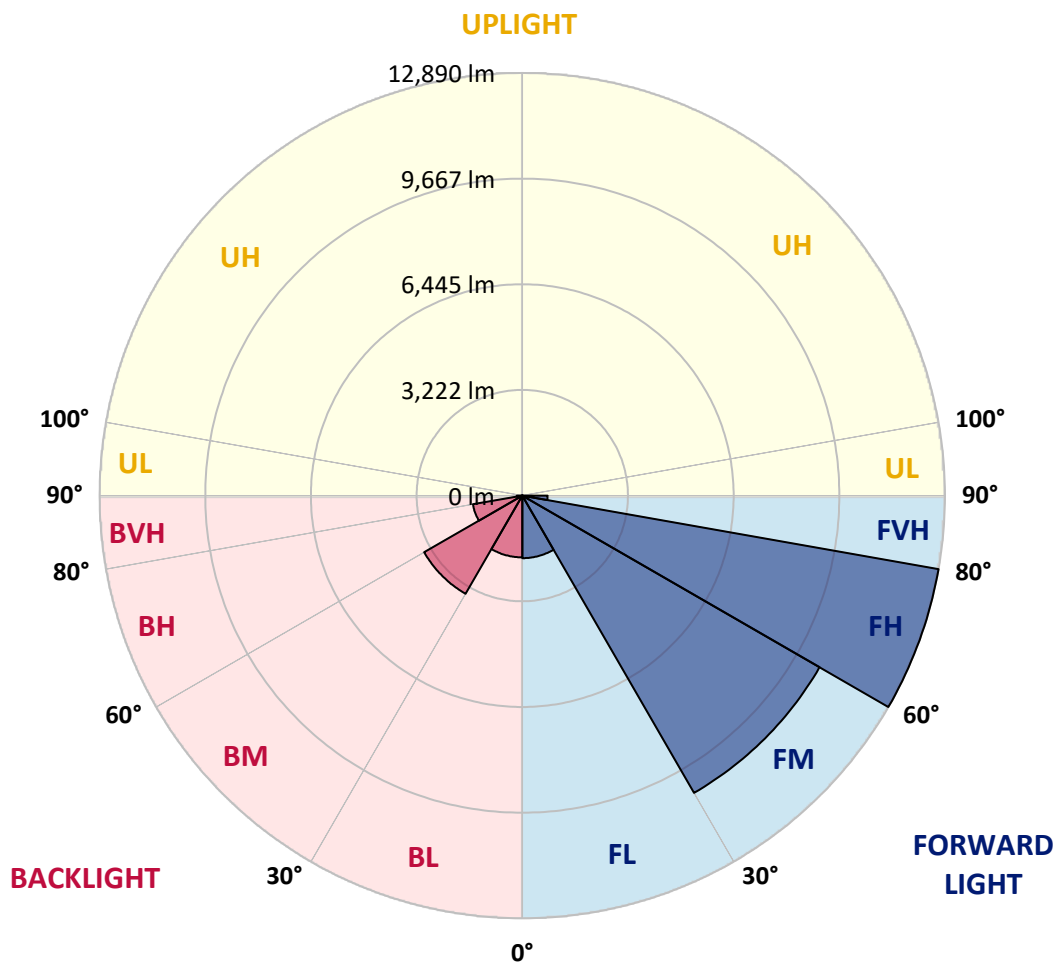
CATALOG NUMBER: GALN-SA7B-727-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1906.4	5.8			
FM	(30°-60°)	10465.4	31.6			
FH	(60°-80°)	12889.7	39.0			G5
FVH	(80°-90°)	772.5	2.3			G5
BL	(0°-30°)	1882.5	5.7	B3/2500		
BM	(30°-60°)	3456.4	10.5	B3/5000		
BH	(60°-80°)	1528.6	4.6	B3/2500		G3/2500
BVH	(80°-90°)	170.5	0.5			G2/225
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: P456016

CATALOG NUMBER: GALN-SA7B-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	5049.4	5049.4	5049.4	5049.4	5049.4	5049.4	5049.4	5049.4	5049.4	5049.4	5049.4
2.5°	4666.5	4690.3	4703.2	4749.0	4760.0	4774.6	4813.1	4864.4	4930.3	4989.0	5040.3
5°	4278.1	4314.7	4336.7	4377.0	4455.8	4463.1	4565.7	4683.0	4816.8	4941.3	5043.9
7.5°	3909.8	3950.1	3968.5	4041.8	4146.2	4162.7	4312.9	4498.0	4721.5	4910.2	5067.8
10°	3633.2	3653.3	3693.6	3748.6	3873.2	3884.2	4080.2	4327.6	4617.0	4895.5	5108.1
12.5°	3482.9	3493.9	3503.1	3561.7	3684.5	3701.0	3906.2	4186.5	4534.6	4906.5	5174.0
15°	3504.9	3508.6	3468.3	3479.3	3578.2	3602.0	3805.4	4093.1	4483.3	4934.0	5273.0
17.5°	3690.0	3677.2	3578.2	3526.9	3596.5	3607.5	3785.2	4056.4	4459.5	4985.3	5375.6
20°	3981.3	3963.0	3792.6	3679.0	3719.3	3728.5	3851.2	4083.9	4483.3	5069.6	5535.0
22.5°	4344.1	4336.7	4078.4	3941.0	3939.1	3939.1	4003.3	4182.8	4554.8	5185.0	5701.7
25°	4851.6	4813.1	4476.0	4298.3	4248.8	4245.1	4237.8	4345.9	4646.4	5307.8	5899.6
27.5°	5371.9	5305.9	5005.5	4732.5	4626.2	4613.4	4565.7	4576.7	4763.6	5447.0	6124.9
30°	5839.1	5797.0	5514.8	5212.5	5086.1	5056.8	4924.9	4864.4	4959.7	5698.0	6484.0
32.5°	6196.4	6170.7	5950.9	5676.0	5489.2	5483.7	5291.3	5241.8	5265.6	6002.2	6894.4
35°	6485.9	6495.0	6383.3	6145.1	5930.7	5899.6	5771.3	5709.0	5639.4	6441.9	7411.1
37.5°	6881.6	6901.8	6894.4	6689.2	6427.2	6434.6	6405.2	6302.6	6117.6	6932.9	7984.6
40°	7317.7	7332.3	7330.5	7251.7	7114.3	7121.6	7110.6	6993.4	6716.7	7557.7	8622.2
42.5°	7920.4	7850.8	7669.4	7748.2	7828.8	7863.6	7938.8	7827.0	7447.7	8224.6	9221.3
45°	8594.7	8462.8	8052.4	8089.0	8387.6	8453.6	8867.7	8713.8	8241.1	8990.4	9926.7
47.5°	9019.7	8889.7	8543.4	8536.0	8931.8	8995.9	9728.8	9672.0	8962.9	9816.7	10787.8
50°	9399.0	9380.7	8990.4	9083.9	9470.4	9565.7	10666.9	10613.7	9683.0	10791.4	11725.8
52.5°	9961.5	9813.1	9501.6	9694.0	10205.1	10329.7	11597.6	11441.9	10344.4	11652.6	12636.4
55°	10214.3	10179.5	10161.2	10327.9	11029.6	11119.4	12502.7	12145.4	10908.7	12381.8	13329.0
57.5°	10890.4	10826.2	11007.6	11121.2	12000.7	12138.1	13448.1	12880.1	11403.4	12960.7	13666.1
60°	11766.1	11731.3	11898.1	12103.3	13085.3	13294.2	14525.4	13506.7	11801.0	13252.0	13481.1
62.5°	13074.3	13070.6	13039.5	13479.2	14622.5	14814.9	15762.1	14116.8	11863.3	13034.0	12524.7
65°	14950.4	14884.5	14613.3	15093.4	16535.3	16760.6	17050.1	14457.6	11487.7	11914.6	10545.9
67.5°	16912.7	16909.0	16689.2	17312.1	19281.7	19514.4	18660.6	14382.5	10445.2	9651.8	7489.9
70°	18539.7	18460.9	18741.2	20401.1	22790.3	23059.6	20069.5	13497.5	8319.9	6374.1	4450.3
72.5°	18929.9	18933.6	19516.2	22782.9	26159.6	26201.8	20577.0	10939.8	5567.9	3515.9	2226.1
74°	17728.0	17759.2	18662.4	22902.0	26788.1	26597.5	19279.8	8598.3	3765.1	2295.7	1605.0
75°	16181.7	15985.6	17292.0	22108.7	26135.8	25930.6	17761.0	6899.9	2872.8	1834.0	1405.3
77.5°	8651.5	8851.2	10866.6	16498.6	21232.9	20996.6	12042.8	3308.9	1551.8	1277.0	1011.4
80°	3079.9	3396.8	4774.6	8633.2	13613.0	13686.3	5747.5	1517.0	1092.0	941.7	714.5
82.5°	1256.9	1291.7	2050.2	3831.1	6912.7	6978.7	2347.0	901.4	780.5	648.6	426.9
85°	491.0	505.7	906.9	1722.2	2949.8	3142.2	811.6	476.4	480.0	371.9	218.0
87.5°	164.9	186.9	371.9	573.5	1002.2	982.0	236.3	141.1	172.2	161.2	67.8
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: P456016
 CATALOG NUMBER: GALN-SA7B-727-U-T4FT

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5049.4	5049.4	5049.4	5049.4	5049.4	5049.4	5049.4	5049.4	5049.4	5049.4	5049.4
2.5°	5065.9	5100.7	5124.6	5150.2	5174.0	5181.4	5175.9	5192.3	5194.2	5196.0	5197.8
5°	5095.2	5142.9	5188.7	5214.3	5225.3	5216.2	5185.0	5168.5	5153.9	5142.9	5146.5
7.5°	5135.6	5203.3	5245.5	5256.5	5227.2	5185.0	5108.1	5047.6	5009.1	4983.5	4981.7
10°	5197.8	5263.8	5298.6	5267.5	5186.9	5084.3	4963.3	4849.7	4763.6	4738.0	4736.1
12.5°	5276.6	5351.7	5349.9	5258.3	5117.2	4934.0	4738.0	4606.1	4488.8	4430.2	4454.0
15°	5379.2	5436.0	5382.9	5218.0	4994.5	4743.5	4501.6	4322.1	4190.2	4127.9	4131.5
17.5°	5498.3	5547.8	5406.7	5146.5	4822.3	4499.8	4219.5	4049.1	3944.6	3898.8	3895.2
20°	5646.7	5661.4	5406.7	5022.0	4600.6	4215.8	3948.3	3829.2	3770.6	3746.8	3754.1
22.5°	5806.1	5776.8	5377.4	4846.1	4309.2	3919.0	3739.4	3686.3	3657.0	3653.3	3657.0
25°	5985.7	5903.2	5316.9	4607.9	4005.1	3662.5	3558.1	3567.2	3572.7	3572.7	3585.5
27.5°	6205.5	6040.6	5216.2	4307.4	3649.7	3424.3	3395.0	3459.1	3488.4	3493.9	3503.1
30°	6495.0	6190.9	5049.4	3931.8	3347.4	3209.9	3261.2	3347.4	3380.3	3400.5	3396.8
32.5°	6839.5	6355.8	4824.1	3556.2	3103.7	3059.7	3122.0	3209.9	3246.6	3257.6	3242.9
35°	7244.4	6542.7	4527.3	3204.5	2891.2	2916.8	2990.1	3017.6	3050.6	3050.6	3057.9
37.5°	7680.4	6692.9	4164.5	2882.0	2726.3	2819.7	2872.8	2847.2	2832.5	2814.2	2823.4
40°	8123.8	6804.7	3693.6	2563.2	2561.4	2718.9	2733.6	2660.3	2601.7	2583.3	2574.2
42.5°	8510.4	6874.3	3268.6	2315.9	2405.6	2620.0	2631.0	2513.7	2420.3	2365.3	2347.0
45°	8966.6	6954.9	2852.7	2110.7	2260.9	2541.2	2568.7	2411.1	2273.7	2158.3	2129.0
47.5°	9591.4	7138.1	2524.7	1951.3	2156.5	2491.7	2530.2	2326.8	2145.5	1995.2	1971.4
50°	10296.8	7389.1	2270.0	1843.2	2075.8	2447.8	2495.4	2240.7	2026.4	1859.6	1841.3
52.5°	10943.5	7524.7	2050.2	1746.1	1997.1	2367.2	2449.6	2178.4	1909.1	1724.1	1707.6
55°	11297.1	7304.8	1834.0	1650.8	1889.0	2262.7	2385.5	2092.3	1795.5	1652.6	1628.8
57.5°	11344.8	6850.5	1638.0	1548.2	1775.4	2134.5	2266.4	1987.9	1722.2	1603.1	1583.0
60°	10976.5	6172.6	1485.9	1463.9	1659.9	1989.7	2132.6	1896.3	1647.1	1548.2	1528.0
62.5°	10060.4	5436.0	1379.6	1386.9	1542.7	1837.7	2033.7	1808.3	1575.7	1487.7	1469.4
65°	8484.7	4487.0	1277.0	1308.2	1438.2	1718.6	1943.9	1735.1	1504.2	1441.9	1425.4
67.5°	5894.1	3239.3	1192.7	1225.7	1339.3	1597.6	1839.5	1656.3	1423.6	1390.6	1365.0
70°	3263.1	1993.4	1093.8	1132.3	1236.7	1462.1	1722.2	1537.2	1306.3	1291.7	1255.0
72.5°	1714.9	1269.7	982.0	1024.2	1097.5	1288.0	1542.7	1407.1	1190.9	1128.6	1081.0
74°	1339.3	1040.7	906.9	950.9	1000.4	1185.4	1436.4	1313.7	1108.5	1035.2	998.5
75°	1167.1	927.1	842.8	899.6	943.6	1115.8	1354.0	1247.7	1062.7	993.0	960.1
77.5°	824.5	694.4	688.9	756.7	780.5	978.4	1220.2	1135.9	947.2	873.9	842.8
80°	579.0	520.3	546.0	588.1	621.1	864.8	1132.3	982.0	776.8	690.7	679.7
82.5°	377.4	340.8	390.3	428.7	439.7	637.6	914.2	745.7	566.1	459.9	426.9
85°	174.1	170.4	223.5	218.0	216.2	311.5	542.3	436.1	326.1	243.7	229.0
87.5°	44.0	42.1	55.0	45.8	55.0	47.6	49.5	12.8	1.8	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)