

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: P647195

Luminaire Tested: **GALN-SA9C-835-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647195
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-SA9C-835-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA 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: 49794.1 lumens
Efficiency: N/A
Efficacy: 103.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

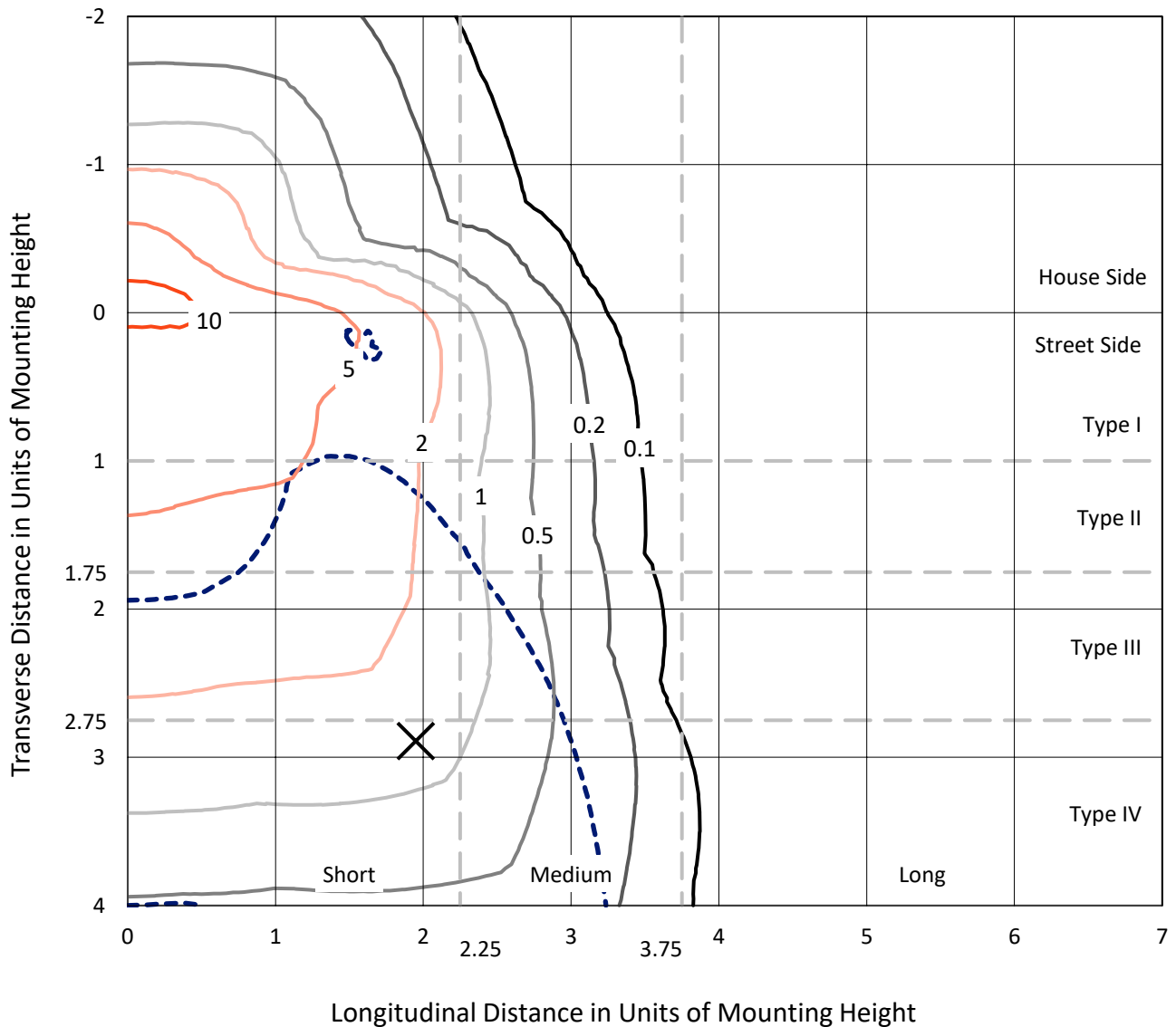
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P647195
 CATALOG NUMBER: GALN-SA9C-835-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

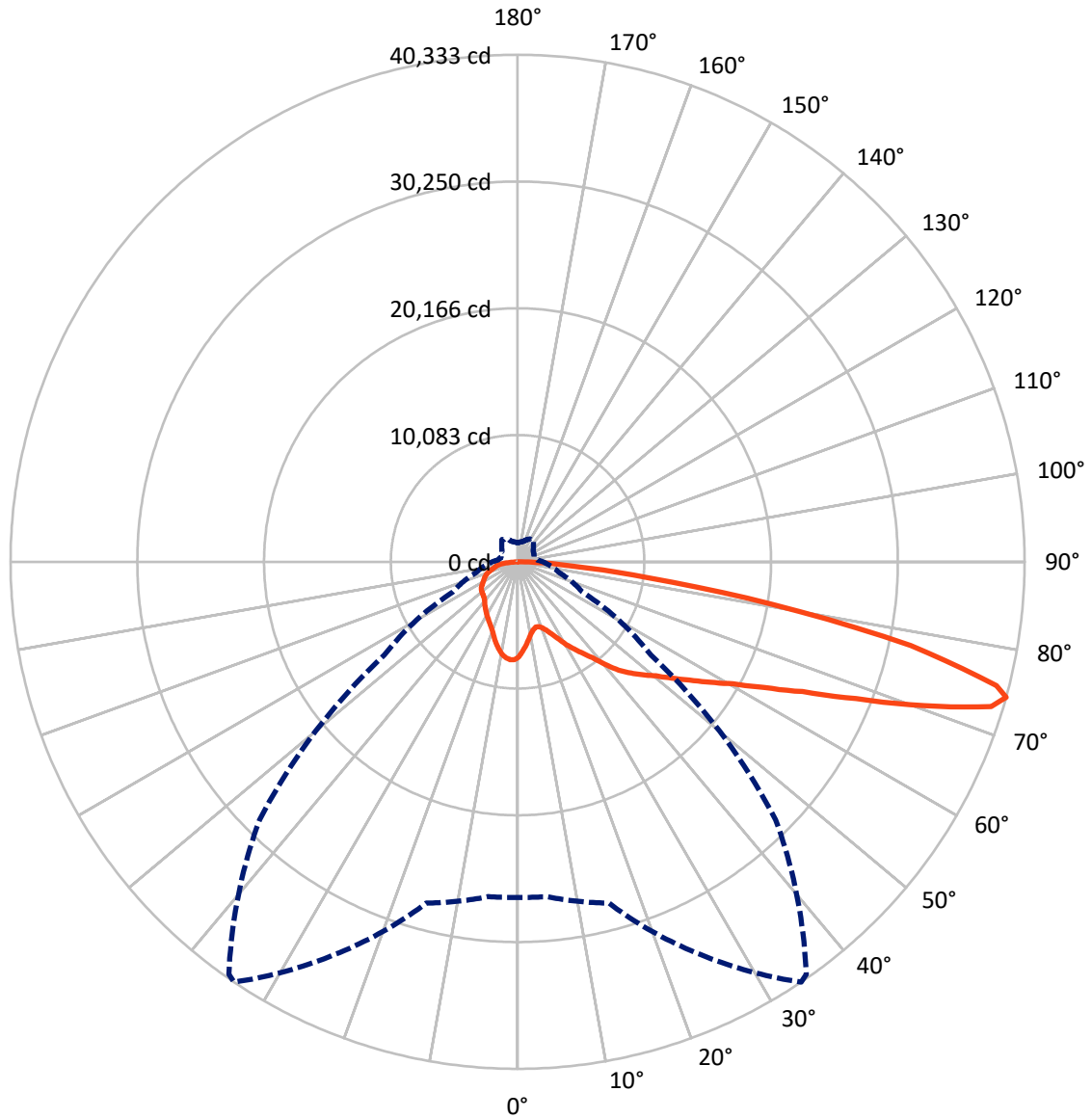
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P647195
CATALOG NUMBER: GALN-SA9C-835-U-T4FT

Luminous Intensity Polar Plot



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



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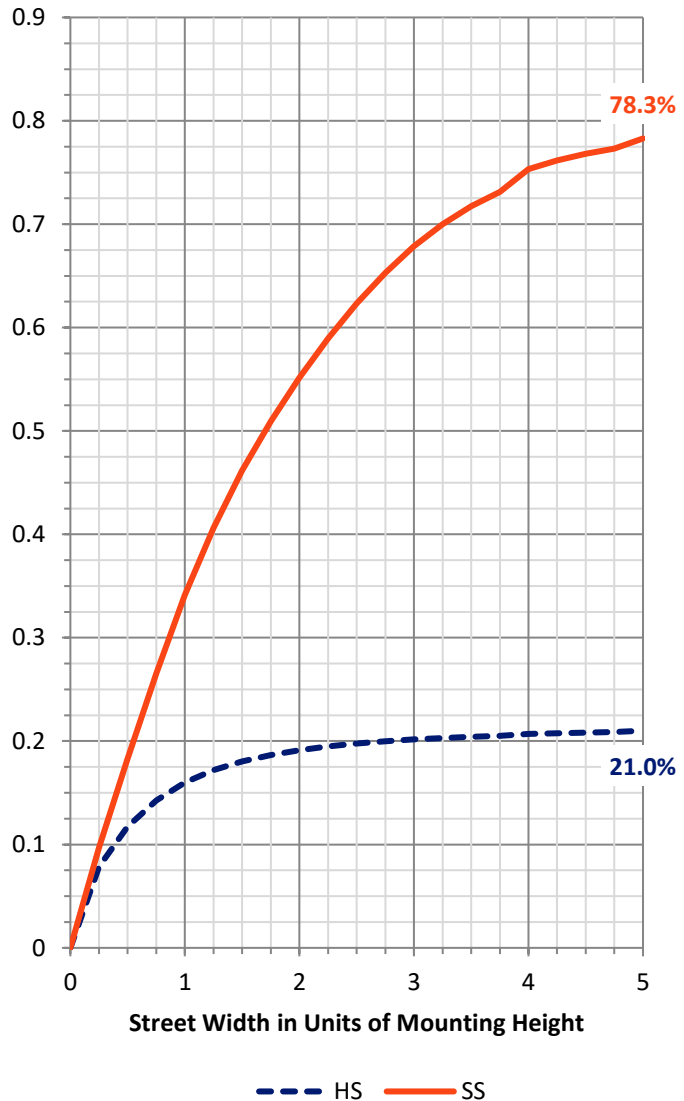
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10596.5	0.0	10596.5
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	39197.6	0.0	39197.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	49794.1	0.0	49794.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	691.4	1.4
10°-20°	1892.7	3.8
20°-30°	3120.6	6.3
30°-40°	4674.3	9.4
40°-50°	6795.2	13.6
50°-60°	9491.3	19.1
60°-70°	11882.6	23.9
70°-80°	9826.0	19.7
80°-90°	1419.8	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°	49794.1	100.0
0°-180°	49794.1	100.0

Coefficient of Utilization



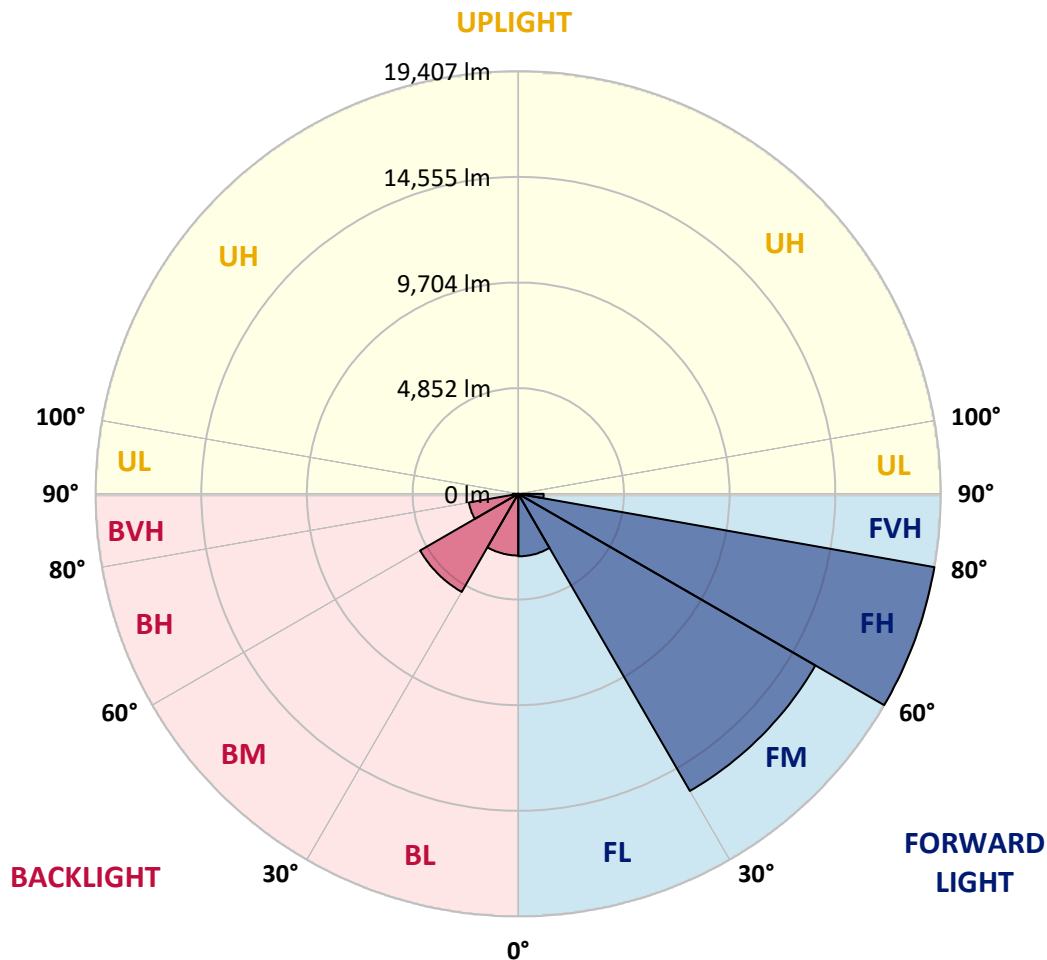
REPORT NUMBER: P647195
 CATALOG NUMBER: GALN-SA9C-835-U-T4FT

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2870.4	5.8			
FM (30°-60°)	15756.9	31.6			
FH (60°-80°)	19407.1	39.0			G5
FVH (80°-90°)	1163.1	2.3			G5
BL (0°-30°)	2834.4	5.7	B4/5000		
BM (30°-60°)	5204.0	10.5	B4/8500		
BH (60°-80°)	2301.5	4.6	B3/2500		G3/2500
BVH (80°-90°)	256.6	0.5			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	7602.5	7602.5	7602.5	7602.5	7602.5	7602.5	7602.5	7602.5	7602.5	7602.5	7602.5
2.5°	7026.0	7061.9	7081.2	7150.2	7166.7	7188.8	7246.7	7323.9	7423.2	7511.6	7588.8
5°	6441.2	6496.4	6529.5	6590.2	6708.8	6719.9	6874.3	7050.8	7252.2	7439.8	7594.3
7.5°	5886.8	5947.4	5975.0	6085.4	6242.6	6267.4	6493.7	6772.2	7108.8	7392.9	7630.2
10°	5470.2	5500.6	5561.3	5644.0	5831.5	5848.1	6143.3	6515.7	6951.6	7370.8	7690.9
12.5°	5244.0	5260.6	5274.4	5362.6	5547.5	5572.3	5881.3	6303.3	6827.4	7387.4	7790.1
15°	5277.1	5282.7	5221.9	5238.5	5387.4	5423.3	5729.5	6162.6	6750.2	7428.8	7939.2
17.5°	5555.7	5536.4	5387.4	5310.2	5415.1	5431.6	5699.1	6107.4	6714.3	7506.0	8093.6
20°	5994.3	5966.8	5710.2	5539.2	5599.9	5613.6	5798.5	6148.8	6750.2	7632.9	8333.6
22.5°	6540.6	6529.5	6140.5	5933.7	5930.9	5930.9	6027.5	6297.7	6857.7	7806.7	8584.7
25°	7304.7	7246.7	6739.1	6471.6	6397.1	6391.6	6380.5	6543.3	6995.7	7991.5	8882.5
27.5°	8088.1	7988.8	7536.4	7125.4	6965.3	6946.1	6874.3	6890.9	7172.2	8201.1	9221.9
30°	8791.5	8728.1	8303.2	7848.1	7657.7	7613.6	7415.0	7323.9	7467.4	8579.1	9762.5
32.5°	9329.4	9290.8	8959.8	8546.0	8264.6	8256.3	7966.7	7892.2	7928.1	9037.0	10380.5
35°	9765.3	9779.0	9610.8	9252.2	8929.4	8882.5	8689.4	8595.6	8490.9	9699.1	11158.4
37.5°	10361.1	10391.5	10380.5	10071.5	9677.0	9688.1	9643.9	9489.4	9210.8	10438.3	12021.8
40°	11017.7	11039.8	11037.0	10918.4	10711.4	10722.5	10706.0	10529.4	10112.8	11379.0	12981.7
42.5°	11925.2	11820.4	11547.3	11665.9	11787.3	11839.7	11952.8	11784.5	11213.5	12383.1	13883.8
45°	12940.4	12741.8	12123.8	12179.0	12628.7	12728.0	13351.4	13119.7	12408.0	13536.2	14945.8
47.5°	13580.4	13384.5	12863.1	12852.1	13447.9	13544.5	14647.9	14562.4	13494.8	14780.3	16242.4
50°	14151.4	14123.8	13536.2	13676.9	14259.0	14402.4	16060.3	15980.3	14579.0	16247.9	17654.8
52.5°	14998.3	14774.8	14305.9	14595.5	15365.1	15552.7	17461.7	17227.2	15574.8	17544.4	19025.7
55°	15378.9	15326.5	15299.0	15550.0	16606.5	16741.6	18824.3	18286.4	16424.4	18642.3	20068.4
57.5°	16396.9	16300.3	16573.4	16744.5	18068.5	18275.5	20247.8	19392.6	17169.2	19514.0	20576.1
60°	17715.5	17663.0	17914.0	18223.0	19701.6	20016.1	21869.8	20336.1	17767.8	19952.6	20297.5
62.5°	19685.0	19679.5	19632.6	20294.7	22016.0	22305.6	23731.9	21254.7	17861.6	19624.3	18857.5
65°	22509.8	22410.5	22002.2	22724.9	24896.0	25235.2	25671.1	21767.7	17296.2	17938.8	15878.2
67.5°	25464.2	25458.7	25127.6	26065.6	29031.1	29381.4	28095.8	21654.6	15726.5	14532.1	11277.0
70°	27913.8	27795.2	28217.3	30716.5	34313.6	34719.2	30217.2	20322.3	12526.6	9597.0	6700.5
72.5°	28501.4	28506.9	29384.1	34302.6	39386.6	39450.0	30981.4	16471.3	8383.3	5293.6	3351.6
74°	26691.8	26738.7	28098.7	34481.9	40332.8	40045.9	29028.2	12945.9	5668.8	3456.5	2416.5
75°	24363.5	24068.4	26035.2	33287.4	39350.8	39041.8	26741.4	10388.7	4325.4	2761.3	2115.8
77.5°	13025.9	13326.6	16361.0	24840.8	31968.9	31613.0	18132.0	4981.9	2336.5	1922.7	1522.7
80°	4637.2	5114.3	7188.8	12998.3	20496.0	20606.4	8653.6	2284.1	1644.1	1417.9	1075.8
82.5°	1892.4	1944.8	3086.8	5768.1	10408.0	10507.3	3533.7	1357.2	1175.1	976.6	642.8
85°	739.3	761.4	1365.5	2593.1	4441.3	4730.9	1222.0	717.2	722.7	560.0	328.2
87.5°	248.3	281.4	560.0	863.4	1508.9	1478.6	355.9	212.4	259.3	242.7	102.1
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°	7602.5	7602.5	7602.5	7602.5	7602.5	7602.5	7602.5	7602.5	7602.5	7602.5	7602.5
2.5°	7627.4	7679.8	7715.7	7754.3	7790.1	7801.2	7792.9	7817.7	7820.5	7823.3	7826.0
5°	7671.5	7743.2	7812.2	7850.8	7867.4	7853.6	7806.7	7781.8	7759.8	7743.2	7748.8
7.5°	7732.2	7834.3	7897.7	7914.3	7870.2	7806.7	7690.9	7599.8	7541.9	7503.3	7500.5
10°	7826.0	7925.3	7977.8	7930.9	7809.5	7655.0	7473.0	7301.9	7172.2	7133.6	7130.9
12.5°	7944.6	8057.8	8055.0	7917.1	7704.6	7428.8	7133.6	6935.0	6758.5	6670.2	6706.1
15°	8099.1	8184.6	8104.6	7856.4	7519.9	7141.9	6777.8	6507.4	6308.8	6215.0	6220.5
17.5°	8278.4	8352.9	8140.5	7748.8	7260.5	6775.0	6352.9	6096.4	5939.1	5870.2	5864.7
20°	8501.9	8523.9	8140.5	7561.2	6926.7	6347.5	5944.7	5765.4	5677.1	5641.3	5652.2
22.5°	8741.9	8697.7	8096.4	7296.4	6488.1	5900.5	5630.2	5550.2	5506.1	5500.6	5506.1
25°	9012.2	8888.1	8005.3	6937.8	6030.2	5514.4	5357.1	5370.9	5379.2	5379.2	5398.5
27.5°	9343.2	9094.9	7853.6	6485.4	5495.0	5155.7	5111.6	5208.1	5252.3	5260.6	5274.4
30°	9779.0	9321.1	7602.5	5919.9	5039.9	4833.0	4910.2	5039.9	5089.5	5119.9	5114.3
32.5°	10297.7	9569.4	7263.3	5354.4	4673.0	4606.8	4700.6	4833.0	4888.2	4904.7	4882.6
35°	10907.3	9850.8	6816.4	4824.7	4353.0	4391.6	4501.9	4543.4	4593.0	4593.0	4604.0
37.5°	11563.9	10077.0	6270.2	4339.2	4104.7	4245.4	4325.4	4286.8	4264.7	4237.1	4250.9
40°	12231.4	10245.2	5561.3	3859.3	3856.4	4093.7	4115.8	4005.4	3917.1	3889.6	3875.8
42.5°	12813.5	10350.1	4921.2	3486.8	3622.0	3944.8	3961.3	3784.7	3644.1	3561.3	3533.7
45°	13500.3	10471.5	4295.1	3177.9	3404.1	3826.1	3867.5	3630.2	3423.4	3249.6	3205.4
47.5°	14441.0	10747.3	3801.3	2937.9	3246.8	3751.7	3809.5	3503.4	3230.3	3004.1	2968.2
50°	15503.1	11125.3	3417.9	2775.1	3125.4	3685.4	3757.1	3373.7	3051.0	2799.9	2772.4
52.5°	16476.8	11329.4	3086.8	2628.9	3006.8	3564.1	3688.2	3279.9	2874.4	2595.8	2571.0
55°	17009.3	10998.3	2761.3	2485.5	2844.1	3406.8	3591.6	3150.2	2703.4	2488.2	2452.4
57.5°	17081.0	10314.2	2466.1	2331.0	2673.0	3213.7	3412.3	2993.0	2593.1	2413.8	2383.4
60°	16526.5	9293.6	2237.2	2204.1	2499.3	2995.8	3210.9	2855.1	2479.9	2331.0	2300.6
62.5°	15147.2	8184.6	2077.2	2088.3	2322.7	2766.8	3062.0	2722.7	2372.3	2239.9	2212.4
65°	12774.9	6755.7	1922.7	1969.6	2165.5	2587.5	2926.9	2612.3	2264.7	2170.9	2146.1
67.5°	8874.3	4877.2	1795.8	1845.5	2016.5	2405.5	2769.5	2493.7	2143.4	2093.7	2055.1
70°	4913.0	3001.3	1646.9	1704.7	1862.1	2201.3	2593.1	2314.4	1966.8	1944.8	1889.6
72.5°	2582.0	1911.7	1478.6	1542.0	1652.4	1939.3	2322.7	2118.6	1793.1	1699.3	1627.5
74°	2016.5	1566.9	1365.5	1431.7	1506.2	1784.8	2162.7	1977.9	1668.9	1558.6	1503.4
75°	1757.2	1395.9	1268.9	1354.4	1420.7	1679.9	2038.5	1878.6	1600.0	1495.1	1445.5
77.5°	1241.4	1045.5	1037.2	1139.3	1175.1	1473.1	1837.2	1710.3	1426.2	1315.8	1268.9
80°	871.7	783.4	822.1	885.5	935.1	1302.1	1704.7	1478.6	1169.6	1040.0	1023.5
82.5°	568.2	513.1	587.6	645.5	662.0	960.0	1376.5	1122.7	852.4	692.4	642.8
85°	262.1	256.5	336.5	328.2	325.5	468.9	816.5	656.5	491.0	366.9	344.8
87.5°	66.2	63.4	82.8	69.0	82.8	71.7	74.5	19.3	2.7	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)