

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: P522914

Luminaire Tested: **GALN-SA9B-740-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522914
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA9B-740-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51622 lumens
Efficiency: N/A
Efficacy: 141.8 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

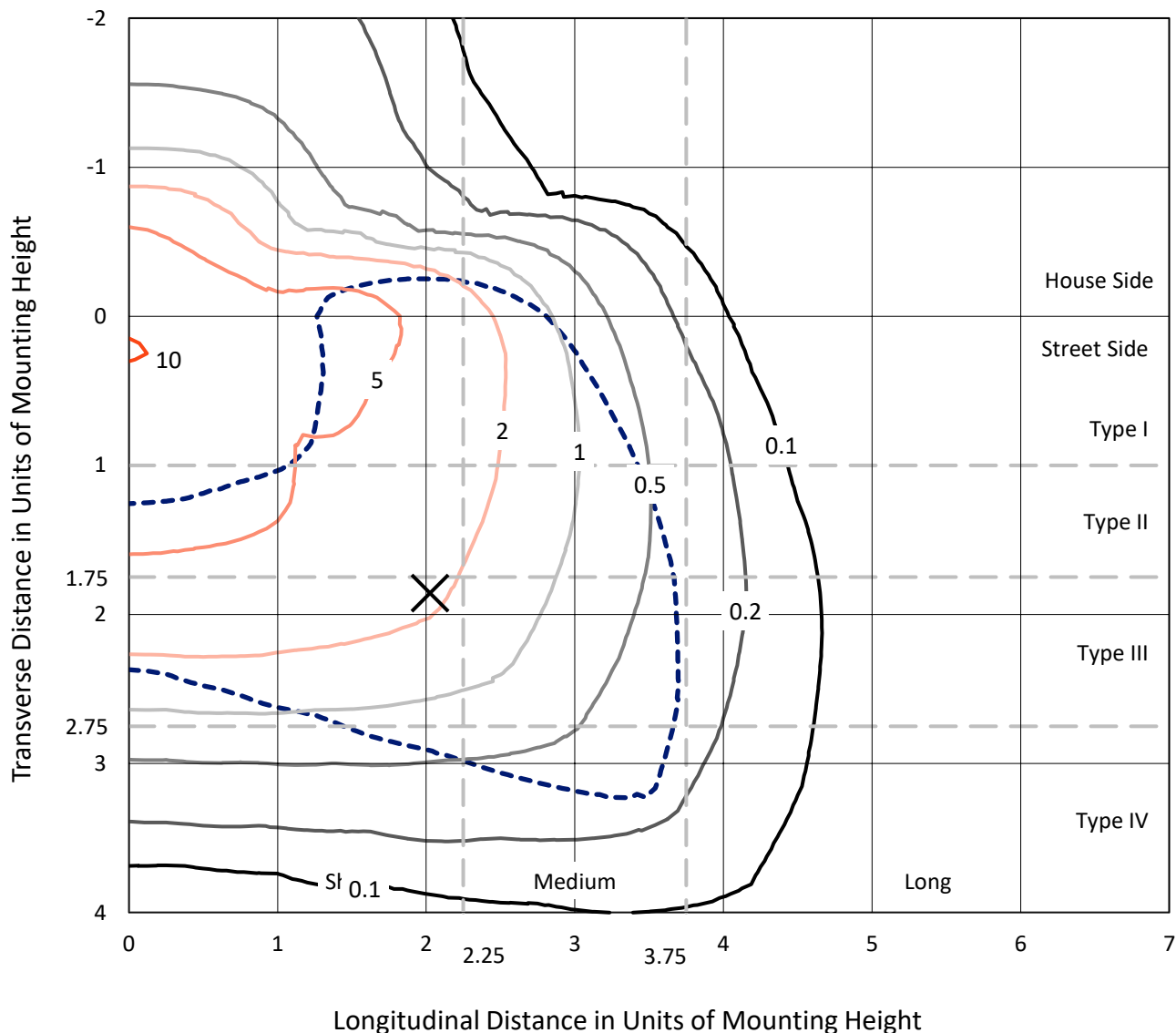
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

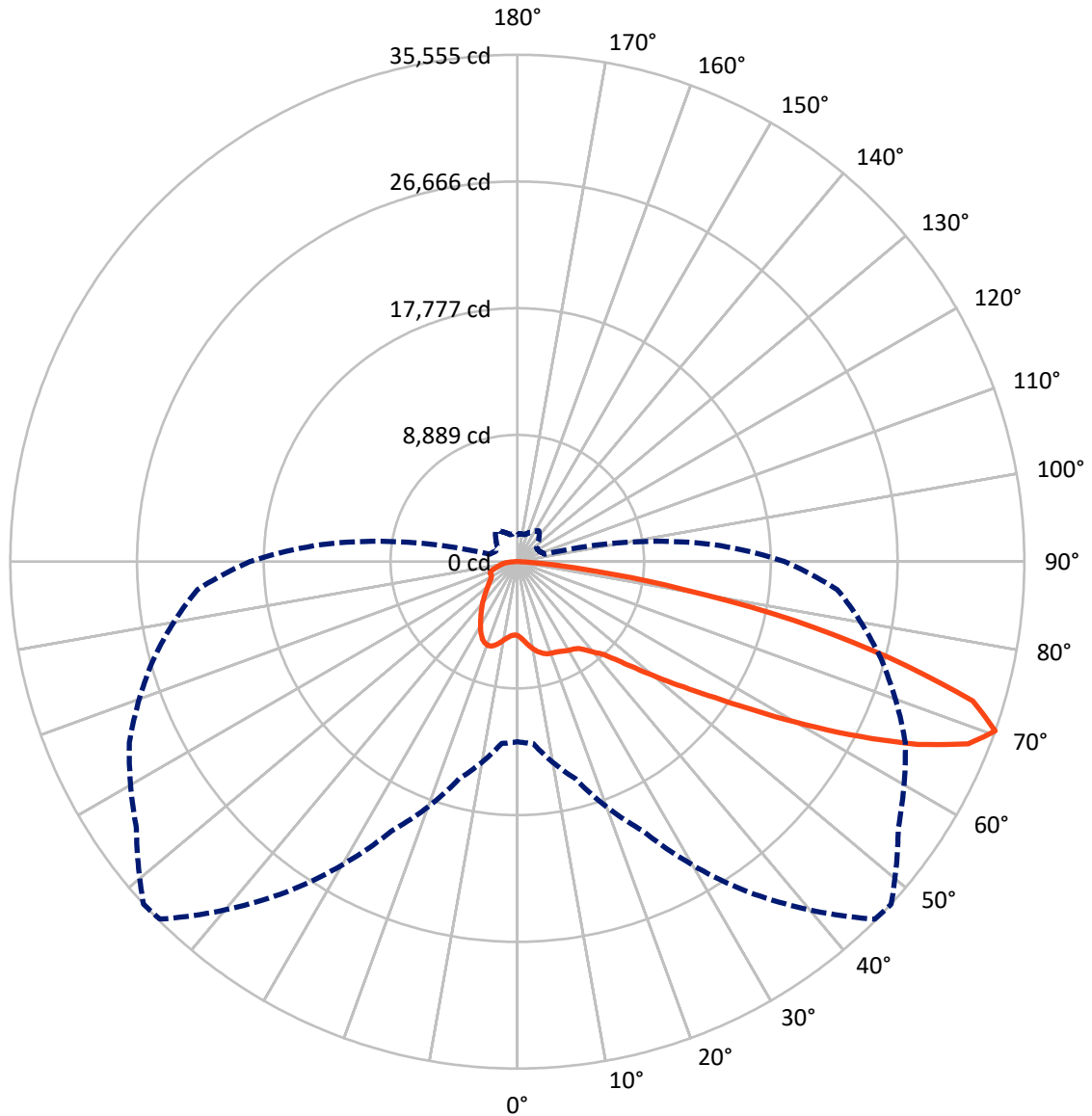
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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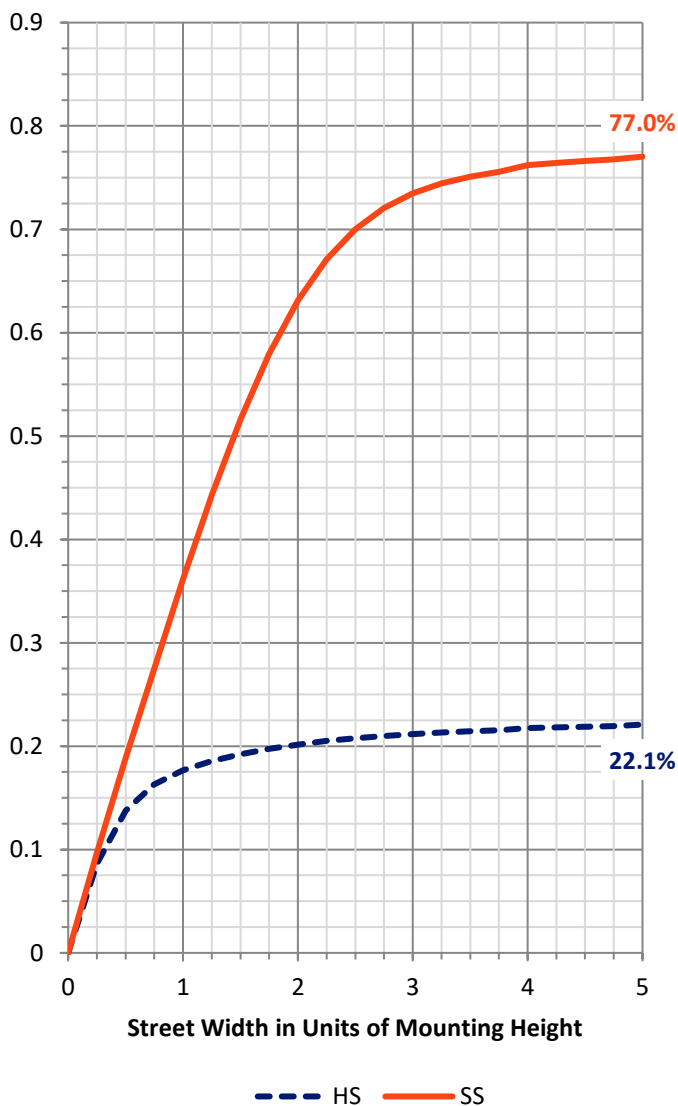
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11688.2	0.0	11688.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	39933.8	0.0	39933.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	51622.0	0.0	51622.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.2	1.0
10°-20°	1785.8	3.5
20°-30°	2969.8	5.8
30°-40°	4209.2	8.2
40°-50°	6213.7	12.0
50°-60°	10762.4	20.8
60°-70°	15202.2	29.4
70°-80°	8739.0	16.9
80°-90°	1205.8	2.3
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°	51622.0	100.0
0°-180°	51622.0	100.0

Coefficient of Utilization



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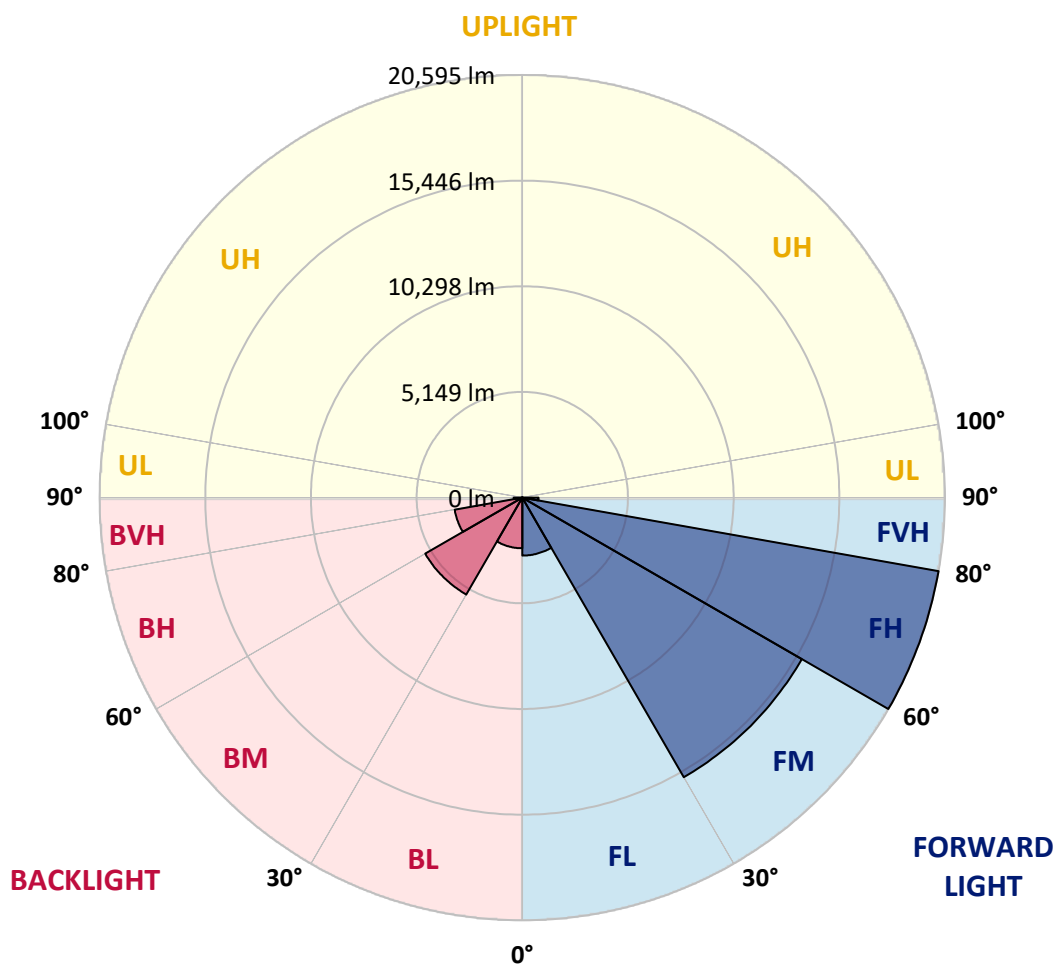
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2822.9	5.5			
FM	(30°-60°)	15728.2	30.5			
FH	(60°-80°)	20595.0	39.9			G5
FVH	(80°-90°)	787.6	1.5			G5
BL	(0°-30°)	2466.9	4.8	B3/2500		
BM	(30°-60°)	5457.0	10.6	B4/8500		
BH	(60°-80°)	3346.2	6.5	B4/5000		G4/5000
BVH	(80°-90°)	418.1	0.8			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°	35°	45°	47.5°	55°	65°	75°	85°
0°	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2
2.5°	5516.5	5497.1	5494.4	5452.9	5430.8	5389.4	5372.8	5334.2	5287.2	5240.2	5196.0
5°	5950.2	5950.2	5930.8	5872.8	5781.7	5687.7	5646.3	5571.7	5439.1	5331.4	5240.2
7.5°	6394.9	6400.4	6361.8	6276.1	6146.3	5994.4	5955.7	5845.2	5657.4	5499.9	5364.5
10°	6778.9	6778.9	6726.4	6610.4	6447.4	6281.7	6243.0	6118.7	5908.7	5712.6	5535.8
12.5°	7071.7	7071.7	7002.6	6850.7	6673.9	6524.7	6480.5	6361.8	6165.6	5947.4	5723.7
15°	7262.3	7248.5	7171.1	6999.9	6828.6	6698.8	6668.4	6568.9	6389.4	6168.4	5917.0
17.5°	7270.6	7265.1	7190.5	7046.8	6897.7	6809.3	6789.9	6723.6	6582.8	6372.8	6107.6
20°	7110.4	7121.4	7071.7	6969.5	6897.7	6859.0	6850.7	6828.6	6729.2	6533.0	6267.8
22.5°	6939.1	6958.4	6911.5	6856.2	6850.7	6889.4	6894.9	6900.4	6836.9	6646.3	6403.2
25°	6897.7	6911.5	6864.5	6814.8	6845.2	6947.4	6969.5	6991.6	6941.9	6781.6	6563.4
27.5°	7107.6	7096.6	7005.4	6897.7	6917.0	7055.1	7085.5	7110.4	7085.5	6947.4	6762.3
30°	7701.5	7665.6	7483.3	7168.4	7068.9	7165.6	7196.0	7265.1	7265.1	7162.9	6977.8
32.5°	8696.0	8626.9	8292.7	7673.9	7328.6	7270.6	7301.0	7414.2	7472.2	7392.1	7190.5
35°	9903.1	9831.3	9353.4	8521.9	7803.7	7480.5	7472.2	7599.3	7754.0	7574.5	7312.0
37.5°	11115.8	11041.2	10466.7	9533.0	8497.1	7922.5	7872.8	7917.0	7983.3	7654.6	7480.5
40°	12328.5	12240.1	11737.4	10662.8	9345.1	8508.1	8378.3	8179.4	8151.8	7917.0	7806.5
42.5°	13530.1	13450.0	13195.9	11930.7	10361.7	9079.9	8881.1	8538.5	8643.5	8502.6	8405.9
45°	14742.8	14748.4	14477.6	13353.4	11588.2	10135.2	9867.2	9331.3	9579.9	9527.5	9582.7
47.5°	15817.4	15803.6	15706.9	14734.5	13110.3	11494.3	11149.0	10527.4	10952.8	11146.2	11568.9
50°	16858.8	16850.5	16856.1	16300.8	14878.2	13110.3	12729.1	12077.1	13035.7	13706.9	14463.8
52.5°	18350.5	18397.5	18063.2	17916.8	17027.3	15019.1	14599.2	13925.2	15497.0	16555.0	18032.8
55°	19847.7	19809.0	19546.6	19698.5	19275.9	17278.7	16839.5	16303.6	18237.2	19394.7	21615.6
57.5°	20728.9	20742.7	21010.7	21753.8	22052.1	20096.3	19698.5	19284.2	21317.3	22137.7	24803.4
60°	21521.7	21585.2	22356.0	23759.2	24568.6	23557.6	23204.0	22800.7	24143.2	24469.2	27571.3
62.5°	21770.3	21966.5	23311.7	25411.1	27021.6	27463.6	27024.4	26134.9	26833.8	26706.7	29447.0
65°	20530.0	20798.0	23209.5	26029.9	29212.2	31170.7	30891.7	29239.8	29126.6	28361.4	29753.6
67.5°	17264.9	17532.8	20629.5	24731.6	30118.2	34380.6	34101.6	31505.0	30518.8	28516.1	27433.2
70°	12632.4	12800.9	15762.1	20822.8	28297.8	35457.9	35554.6	32609.9	30021.6	26413.9	22524.5
72.5°	7278.9	7651.8	9726.3	14648.9	23118.4	32734.2	33405.5	30311.6	26878.0	22035.5	15748.3
75°	3129.8	3138.1	4497.2	8080.0	15657.2	26311.7	26960.8	25126.6	21107.4	15237.3	8408.7
77.5°	1488.9	1516.5	1977.9	3607.7	8618.6	18179.2	19930.6	17751.1	13499.8	7320.3	3176.7
80°	966.8	986.2	1209.9	1790.0	4226.4	10541.2	11762.2	10240.1	5955.7	2616.0	1370.1
82.5°	585.6	591.1	809.4	1093.9	2325.9	4773.4	5627.0	4444.7	2541.4	1566.3	806.6
85°	356.3	359.1	491.7	676.8	1411.6	1649.1	1693.3	1679.5	1491.7	1024.8	430.9
87.5°	171.3	176.8	254.1	320.4	555.2	511.0	483.4	560.8	704.4	552.5	185.1
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°	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2	5182.2
2.5°	5176.7	5168.4	5149.1	5140.8	5135.3	5138.0	5135.3	5135.3	5138.0	5138.0	5138.0
5°	5201.6	5187.8	5157.4	5157.4	5173.9	5212.6	5248.5	5276.1	5306.5	5303.8	5303.8
7.5°	5309.3	5284.4	5248.5	5259.6	5301.0	5361.8	5425.3	5486.1	5546.9	5552.4	5549.6
10°	5466.8	5441.9	5403.2	5417.0	5483.3	5574.5	5654.6	5743.0	5809.3	5828.6	5823.1
12.5°	5646.3	5596.6	5563.4	5602.1	5707.1	5828.6	5906.0	5972.3	6019.2	6046.9	6035.8
15°	5828.6	5781.7	5743.0	5823.1	5950.2	6063.4	6102.1	6113.2	6121.4	6149.1	6143.5
17.5°	6005.4	5941.9	5928.1	6033.0	6154.6	6204.3	6182.2	6135.2	6099.3	6121.4	6118.7
20°	6162.9	6113.2	6107.6	6212.6	6259.6	6212.6	6118.7	6035.8	5972.3	5977.8	5975.0
22.5°	6312.0	6273.4	6278.9	6323.1	6248.5	6088.3	5933.6	5820.3	5751.3	5765.1	5773.4
25°	6477.8	6439.1	6452.9	6381.1	6135.2	5856.2	5632.5	5535.8	5508.2	5535.8	5555.1
27.5°	6693.3	6668.4	6660.1	6383.9	5933.6	5513.7	5259.6	5223.7	5248.5	5309.3	5339.7
30°	6925.3	6925.3	6881.1	6336.9	5657.4	5102.1	4881.1	4886.7	4972.3	5057.9	5088.3
32.5°	7149.0	7196.0	7057.9	6209.8	5301.0	4701.6	4533.1	4538.6	4613.2	4718.1	4745.8
35°	7334.1	7469.5	7209.8	5977.8	4881.1	4364.6	4237.5	4162.9	4165.7	4245.8	4267.9
37.5°	7588.3	7839.6	7298.2	5632.5	4433.6	4077.3	3933.6	3803.8	3718.2	3685.0	3685.0
40°	8030.2	8400.4	7320.3	5121.5	4011.0	3803.8	3599.4	3444.7	3278.9	3129.8	3102.2
42.5°	8778.8	9245.7	7276.1	4533.1	3629.8	3502.7	3303.8	3113.2	2883.9	2674.0	2657.4
45°	10104.8	10345.1	7157.3	3922.6	3290.0	3212.6	3019.3	2812.1	2569.0	2381.2	2367.4
47.5°	12229.1	11889.3	6999.9	3381.2	2980.6	2958.5	2809.3	2569.0	2325.9	2196.1	2182.3
50°	15331.2	14320.2	6977.8	2988.9	2732.0	2743.0	2621.5	2400.5	2187.8	2080.1	2063.5
52.5°	19066.0	17256.6	7124.2	2712.7	2513.8	2555.2	2494.4	2290.0	2102.2	2011.0	1994.4
55°	22690.2	19897.4	7212.6	2497.2	2309.4	2386.7	2395.0	2223.7	2052.4	1961.3	1950.2
57.5°	25632.1	21886.3	6820.3	2301.1	2132.6	2251.3	2312.1	2185.0	2027.6	1958.5	1947.5
60°	27679.1	22825.6	5704.3	2127.0	2002.7	2143.6	2281.7	2187.8	2088.4	2096.6	2102.2
62.5°	28331.0	22408.4	4278.9	1997.2	1914.3	2107.7	2331.4	2301.1	2198.9	2262.4	2273.4
65°	27250.9	20684.7	3102.2	1895.0	1837.0	2132.6	2480.6	2383.9	2160.2	2207.1	2207.1
67.5°	23634.9	17820.1	2414.3	1801.1	1748.6	2179.5	2629.8	2375.6	2069.0	2124.3	2074.5
70°	18748.3	13784.3	2011.0	1696.1	1654.7	2110.5	2643.6	2290.0	1961.3	1972.3	1878.4
72.5°	12441.8	9063.4	1729.3	1596.7	1511.0	1897.8	2530.3	2179.5	1856.3	1792.8	1698.9
75°	6096.6	4519.3	1508.3	1472.3	1323.2	1651.9	2375.6	2074.5	1743.1	1643.6	1591.1
77.5°	2361.8	1922.6	1287.3	1314.9	1151.9	1455.8	2171.2	1925.4	1593.9	1458.5	1417.1
80°	1146.4	1091.1	1055.2	1096.7	947.5	1240.3	1983.4	1795.5	1455.8	1306.6	1245.8
82.5°	712.7	674.0	809.4	853.6	729.3	1132.6	1881.2	1685.1	1281.7	1082.9	1033.1
85°	361.9	386.7	541.4	582.9	522.1	900.5	1549.7	1265.2	925.4	767.9	773.5
87.5°	138.1	185.1	284.5	306.6	279.0	475.1	853.6	737.6	593.9	403.3	372.9
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)