

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: P941105

Luminaire Tested: **GALN-SB4C-727-U-T2**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941105
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4C-727-U-T2
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27585 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 200.7
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

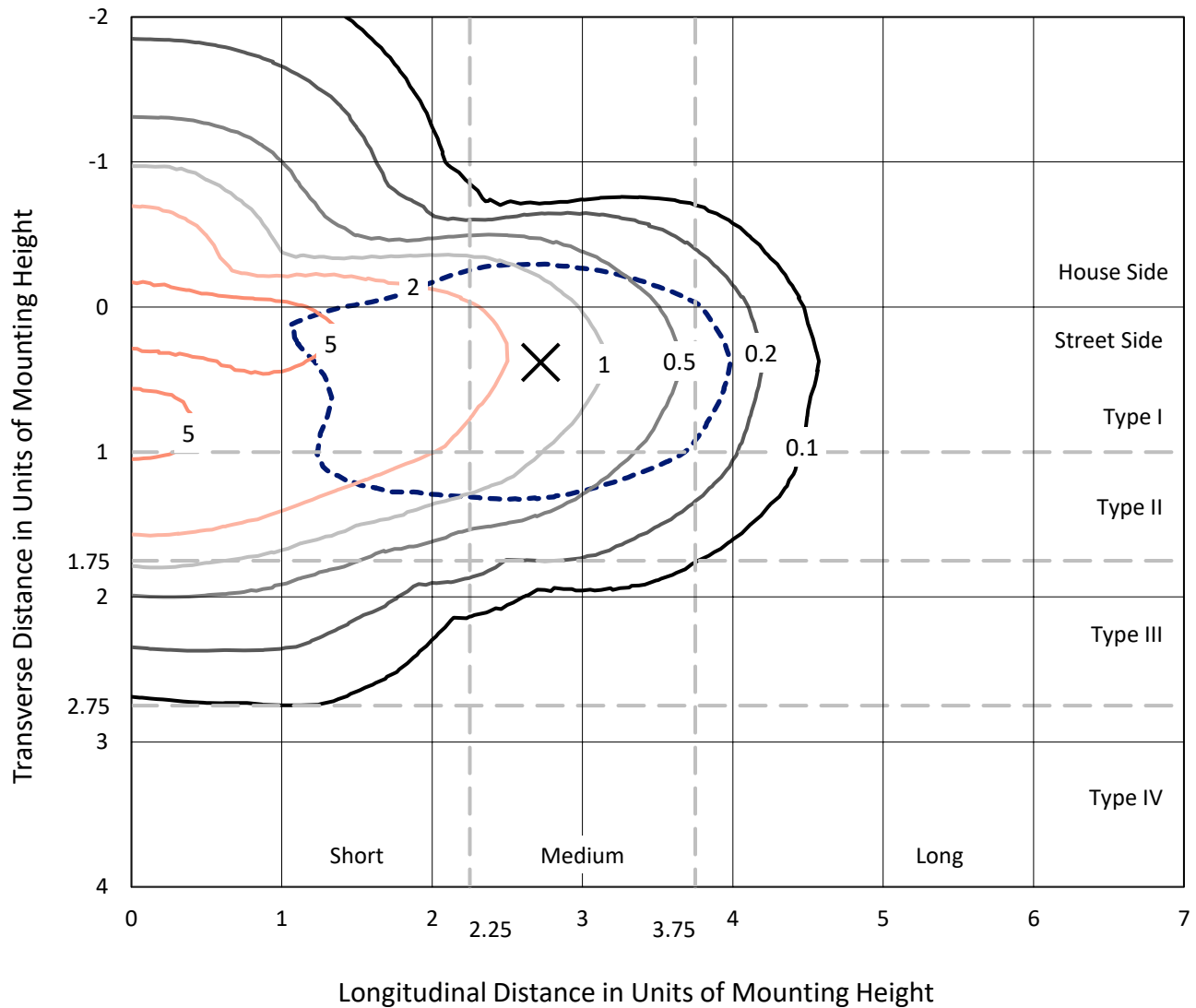


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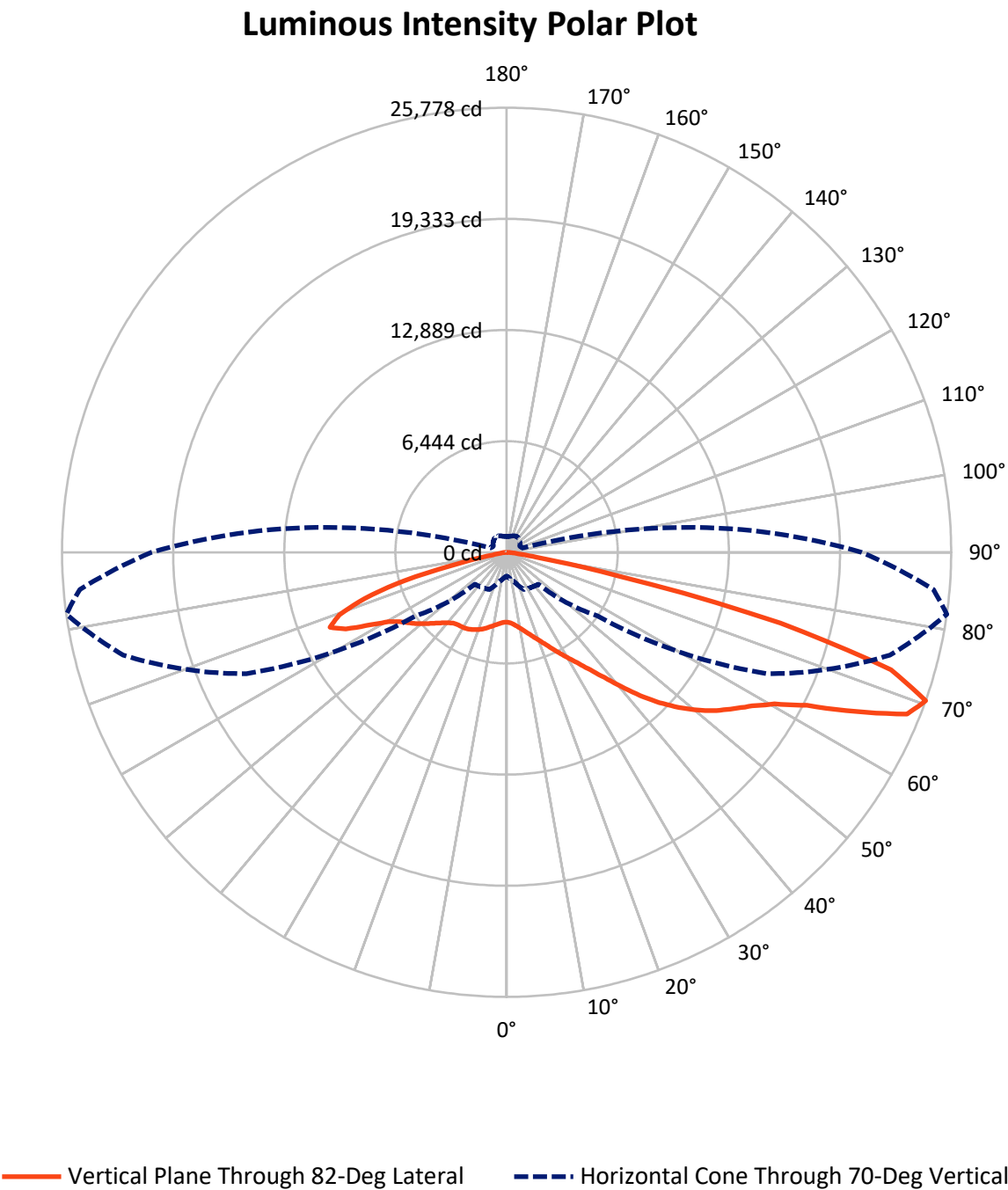
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 fc
Type II - Medium - N/A

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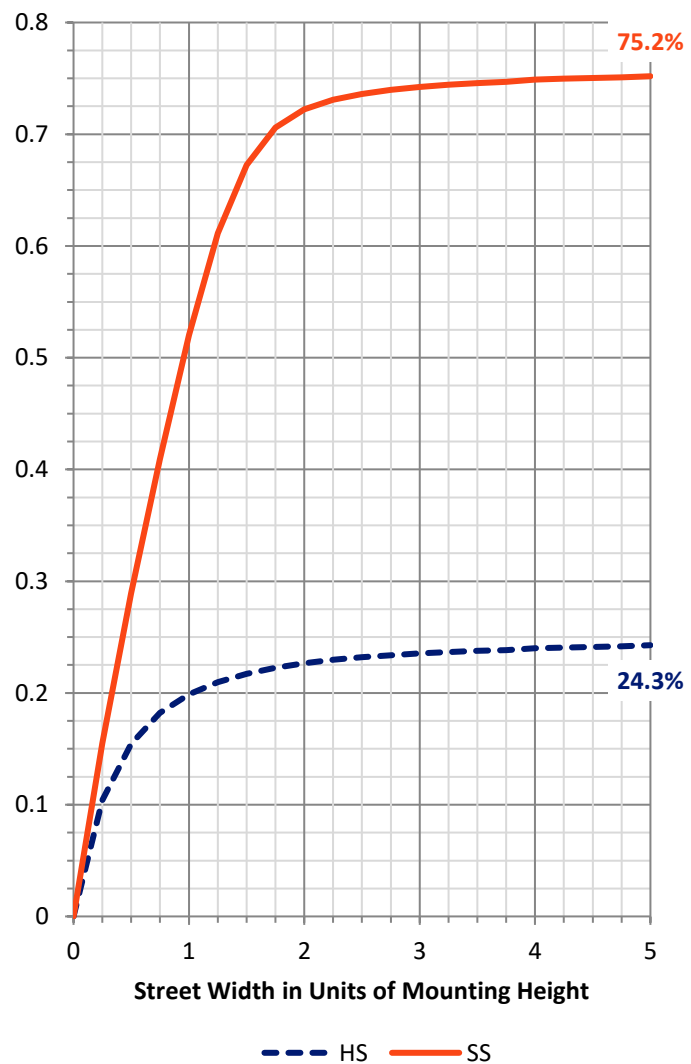
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6800.4	0.0	6800.4
	% Fixture	24.7	0.0	24.7
Street Side	Lumens	20784.6	0.0	20784.6
	% Fixture	75.3	0.0	75.3
Total	Lumens	27585.0	0.0	27585.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.9	1.4
10°-20°	1097.1	4.0
20°-30°	1835.3	6.7
30°-40°	2867.2	10.4
40°-50°	4566.4	16.6
50°-60°	6354.7	23.0
60°-70°	6647.3	24.1
70°-80°	3474.3	12.6
80°-90°	360.8	1.3
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°	27585.0	100.0
0°-180°	27585.0	100.0

Coefficient of Utilization



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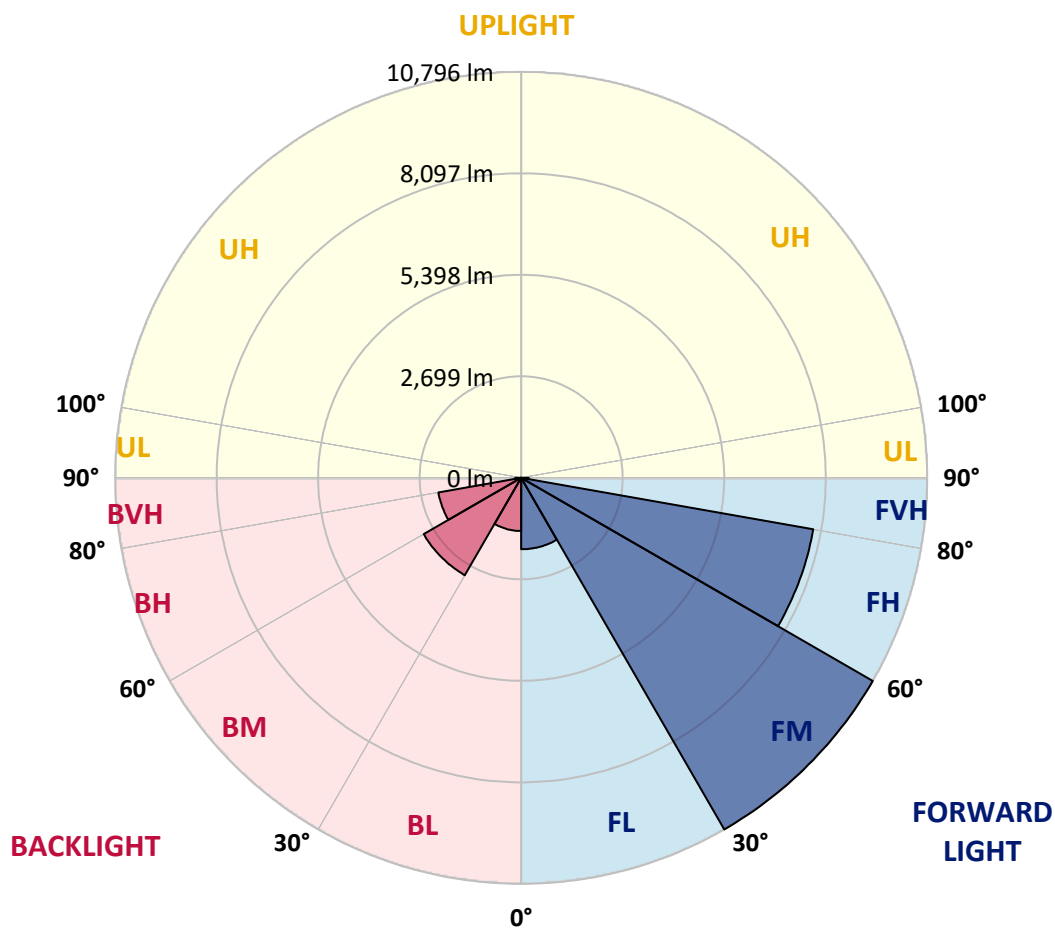
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1899.5	6.9			
FM	(30°-60°)	10796.5	39.1			
FH	(60°-80°)	7886.6	28.6			G4/12000
FVH	(80°-90°)	202.0	0.7			G2/225
BL	(0°-30°)	1414.7	5.1	B3/2500		
BM	(30°-60°)	2991.9	10.8	B3/5000		
BH	(60°-80°)	2234.9	8.1	B3/2500		G3/2500
BVH	(80°-90°)	158.8	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3
2.5°	4140.9	4164.3	4157.0	4149.7	4149.7	4139.4	4138.0	4123.3	4111.6	4092.6	4088.2
5°	4193.6	4218.5	4215.6	4221.4	4240.4	4244.8	4249.2	4240.4	4217.0	4193.6	4183.4
7.5°	4146.8	4174.6	4183.4	4218.5	4277.0	4329.7	4369.3	4385.4	4363.4	4329.7	4313.6
10°	3988.7	4019.4	4050.2	4133.6	4237.5	4361.9	4467.3	4530.3	4525.9	4493.7	4465.9
12.5°	3668.1	3700.3	3766.2	3928.7	4119.0	4338.5	4534.7	4666.4	4711.8	4688.4	4640.0
15°	3412.0	3439.8	3489.5	3656.4	3903.8	4237.5	4559.5	4815.7	4931.3	4918.2	4859.6
17.5°	3404.7	3416.4	3447.1	3526.1	3716.4	4079.4	4533.2	4962.1	5183.1	5181.6	5108.4
20°	3533.5	3537.9	3555.4	3571.5	3679.8	3959.4	4465.9	5083.6	5465.6	5465.6	5386.6
22.5°	3712.0	3709.1	3726.7	3712.0	3764.7	3949.2	4423.4	5190.4	5780.3	5803.7	5704.2
25°	3979.9	3965.3	3960.9	3927.2	3937.5	4044.3	4470.3	5311.9	6153.6	6201.9	6077.4
27.5°	4337.1	4313.6	4297.5	4220.0	4193.6	4240.4	4613.7	5458.3	6569.3	6652.7	6494.6
30°	4802.5	4760.1	4736.7	4602.0	4506.8	4514.2	4830.3	5653.0	7004.0	7138.6	6938.1
32.5°	5437.8	5371.9	5309.0	5088.0	4913.8	4856.7	5109.9	5922.3	7475.3	7690.5	7432.9
35°	6149.2	6096.5	6029.1	5688.1	5420.2	5288.5	5487.6	6298.5	8027.1	8368.2	8033.0
37.5°	6834.2	6788.8	6821.0	6361.4	6016.0	5824.2	5982.3	6803.5	8707.8	9211.3	8785.4
40°	7542.6	7507.5	7511.9	7072.8	6670.3	6455.1	6582.4	7437.2	9487.9	10214.0	9689.9
42.5°	8312.6	8286.2	8198.4	7809.0	7356.7	7156.2	7273.3	8169.1	10325.2	11355.7	10682.4
45°	9174.7	9158.6	9076.6	8630.2	8112.0	7886.6	8044.7	8977.1	11166.9	12430.1	11679.2
47.5°	9919.7	9932.9	9922.7	9546.5	9009.3	8678.5	8867.3	9820.2	11950.0	13440.0	12635.0
50°	10278.4	10347.2	10448.2	10331.1	9997.3	9660.7	9697.3	10634.1	12696.5	14387.1	13551.3
52.5°	10091.0	10221.3	10496.5	10683.8	10812.6	10742.4	10644.3	11442.0	13399.1	15241.9	14417.8
55°	9392.8	9575.8	10032.5	10484.7	11142.0	11652.8	11781.6	12337.8	14084.1	15994.3	15237.5
57.5°	8120.8	8418.0	8827.8	9742.6	10849.2	12093.4	13107.8	13580.6	14810.1	16797.8	16095.3
60°	5939.8	6338.0	6847.4	8208.6	9824.6	11857.7	14236.3	15489.3	15842.0	17838.6	17212.1
62.5°	3801.3	4047.2	4515.6	5797.9	7655.3	10650.2	14581.8	17875.2	17591.2	19545.3	18886.6
65°	2602.5	2760.6	3189.5	3909.6	4948.9	7927.6	13656.7	19663.8	20369.4	22250.3	21749.7
67.5°	1891.1	2011.2	2377.1	3008.0	3224.6	4691.3	10597.5	19581.9	23070.0	25037.2	24258.5
70°	1378.8	1463.7	1771.1	2377.1	2481.0	2609.8	6420.0	16645.6	23011.4	25777.9	24845.5
72.5°	1021.7	1080.2	1286.6	1844.3	2008.2	1762.3	3177.8	12097.8	19773.6	23315.9	22567.9
75°	739.2	783.1	935.3	1411.0	1607.2	1342.2	1585.2	7069.9	13792.8	16401.2	16532.9
77.5°	565.0	598.7	698.2	1033.4	1286.6	1007.1	983.6	3252.4	6540.0	6572.2	6941.0
80°	453.8	475.7	529.9	727.5	986.6	753.8	641.1	1313.0	2066.8	1749.2	1835.5
82.5°	333.7	370.3	447.9	510.8	705.5	519.6	390.8	663.1	786.0	676.2	682.1
85°	190.3	215.2	270.8	365.9	450.8	317.6	224.0	294.2	365.9	300.1	267.9
87.5°	67.3	87.8	95.1	143.4	196.1	131.7	86.4	84.9	120.0	89.3	74.7
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°	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3	4044.3
2.5°	4073.6	4066.3	4037.0	3997.5	3956.5	3917.0	3903.8	3876.0	3856.9	3846.7	3858.4
5°	4155.5	4132.1	4063.3	3975.5	3883.3	3783.8	3713.5	3649.1	3602.3	3558.3	3575.9
7.5°	4272.6	4231.7	4113.1	3959.4	3795.5	3630.1	3507.1	3413.4	3350.5	3309.5	3318.3
10°	4408.8	4345.8	4164.3	3934.5	3681.3	3444.2	3299.3	3218.8	3179.2	3157.3	3163.1
12.5°	4565.4	4476.1	4217.0	3877.4	3507.1	3236.3	3136.8	3113.4	3114.8	3116.3	3119.2
15°	4758.6	4634.2	4259.5	3753.0	3280.2	3076.8	3059.2	3097.3	3136.8	3155.8	3154.4
17.5°	4976.7	4801.1	4266.8	3548.1	3057.7	2974.3	3029.9	3111.9	3171.9	3198.3	3204.1
20°	5210.9	4970.9	4214.1	3258.3	2874.8	2890.9	2990.4	3095.8	3161.7	3195.3	3204.1
22.5°	5478.8	5152.4	4088.2	2953.8	2725.5	2800.1	2917.2	3019.7	3088.5	3122.2	3130.9
25°	5784.7	5355.8	3890.6	2697.7	2596.7	2697.7	2814.8	2899.7	2955.3	2986.0	2994.8
27.5°	6124.3	5568.1	3627.1	2494.2	2484.0	2592.3	2688.9	2754.8	2784.0	2807.4	2816.2
30°	6465.3	5761.3	3308.0	2340.5	2385.9	2488.4	2557.1	2586.4	2595.2	2599.6	2609.8
32.5°	6834.2	5928.1	2972.9	2213.2	2292.2	2387.4	2428.3	2441.5	2400.5	2372.7	2381.5
35°	7280.6	6106.7	2645.0	2112.2	2200.0	2282.0	2295.1	2283.4	2235.1	2178.0	2181.0
37.5°	7832.5	6329.2	2383.0	2040.4	2113.6	2167.8	2151.7	2148.8	2153.2	2085.8	2090.2
40°	8508.7	6619.0	2191.2	1984.8	2043.4	2055.1	2009.7	2034.6	2056.6	1954.1	1957.0
42.5°	9259.6	6968.9	2069.7	1946.8	1984.8	1957.0	1886.8	1914.6	1911.6	1777.0	1775.5
45°	10025.1	7349.4	2027.3	1919.0	1930.7	1875.0	1797.5	1804.8	1743.3	1621.8	1626.2
47.5°	10786.3	7757.8	2053.6	1895.5	1863.3	1800.4	1740.4	1708.2	1617.4	1526.7	1526.7
50°	11532.8	8186.7	2150.2	1848.7	1771.1	1734.5	1690.6	1633.5	1536.9	1459.3	1453.5
52.5°	12225.1	8618.5	2258.5	1771.1	1655.5	1677.4	1649.6	1583.8	1488.6	1409.6	1411.0
55°	12880.9	9050.3	2301.0	1664.3	1547.2	1627.7	1611.6	1490.1	1375.9	1311.5	1305.7
57.5°	13595.2	9569.9	2254.2	1528.1	1459.3	1570.6	1509.1	1374.4	1308.6	1260.3	1255.9
60°	14584.7	10385.2	2153.2	1359.8	1375.9	1485.7	1380.3	1324.7	1253.0	1198.8	1195.9
62.5°	16228.5	11906.0	1990.7	1192.9	1277.8	1359.8	1318.8	1263.2	1190.0	1137.3	1137.3
65°	18658.3	14019.7	1684.8	1062.7	1168.1	1236.9	1253.0	1197.3	1121.2	1065.6	1068.5
67.5°	20707.5	15345.8	1274.9	954.4	1055.4	1137.3	1182.7	1128.5	1048.0	993.9	995.3
70°	20594.8	14382.7	973.4	847.5	955.8	1039.3	1097.8	1055.4	969.0	917.8	922.2
72.5°	18292.3	12031.9	787.5	739.2	854.8	936.8	1007.1	974.8	887.0	837.3	837.3
75°	13438.6	8540.9	629.4	629.4	728.9	829.9	907.5	887.0	806.5	771.4	761.1
77.5°	5664.7	3583.2	493.3	522.6	606.0	712.8	809.4	816.8	746.5	790.4	717.2
80°	1506.2	988.0	376.2	411.3	475.7	588.4	704.1	701.1	625.0	584.0	543.0
82.5°	573.8	389.4	267.9	289.8	344.0	450.8	557.7	575.2	499.1	431.8	431.8
85°	221.0	166.9	165.4	174.2	200.5	298.6	421.6	436.2	376.2	319.1	329.3
87.5°	57.1	49.8	61.5	58.5	92.2	159.5	241.5	250.3	229.8	133.2	190.3
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)