

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: P956652

Luminaire Tested: **GALN-SB9B-727-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956652
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9B-727-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47480 lumens
Efficiency: N/A
Efficacy: 144.1 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): 329.5
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

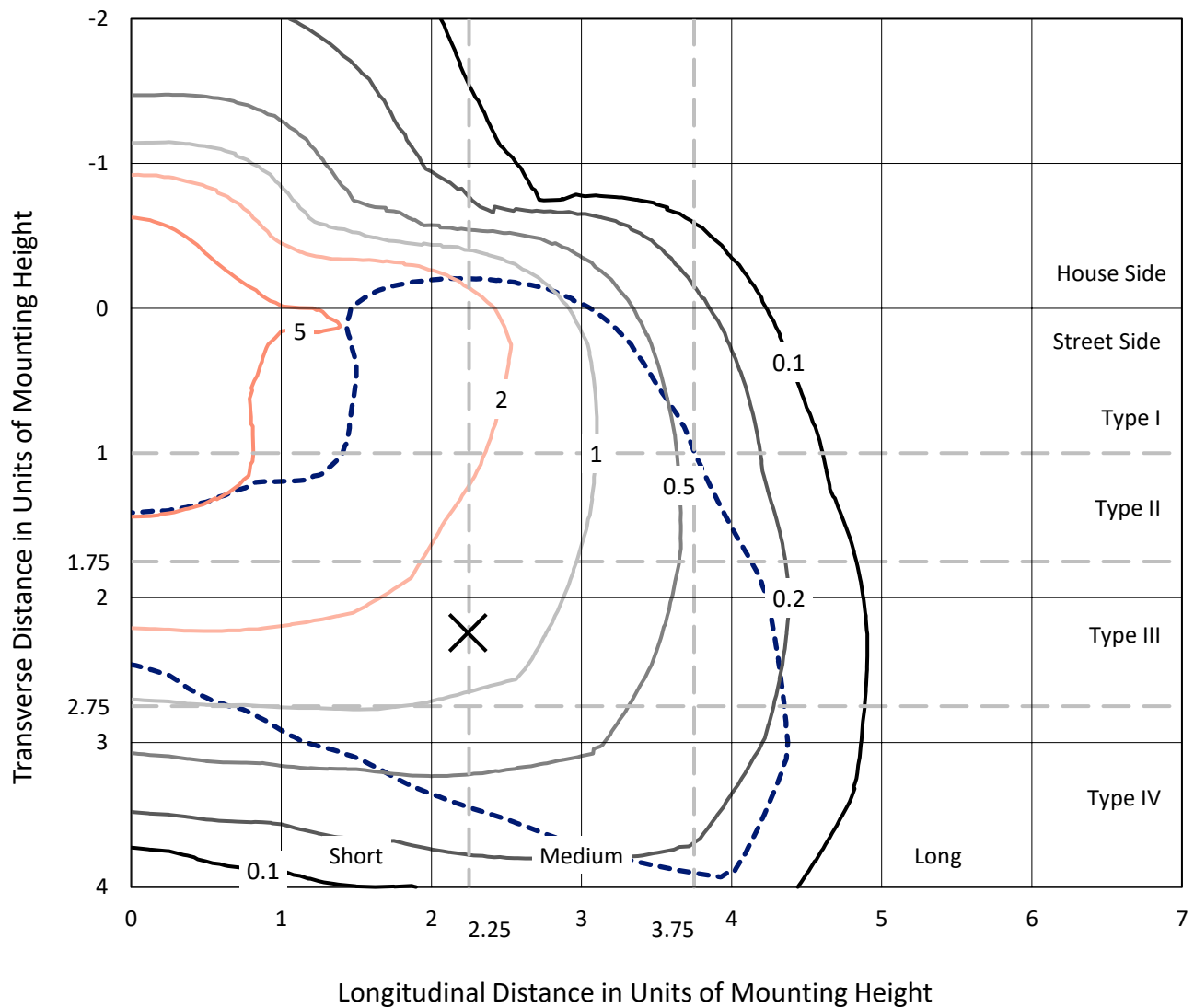


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

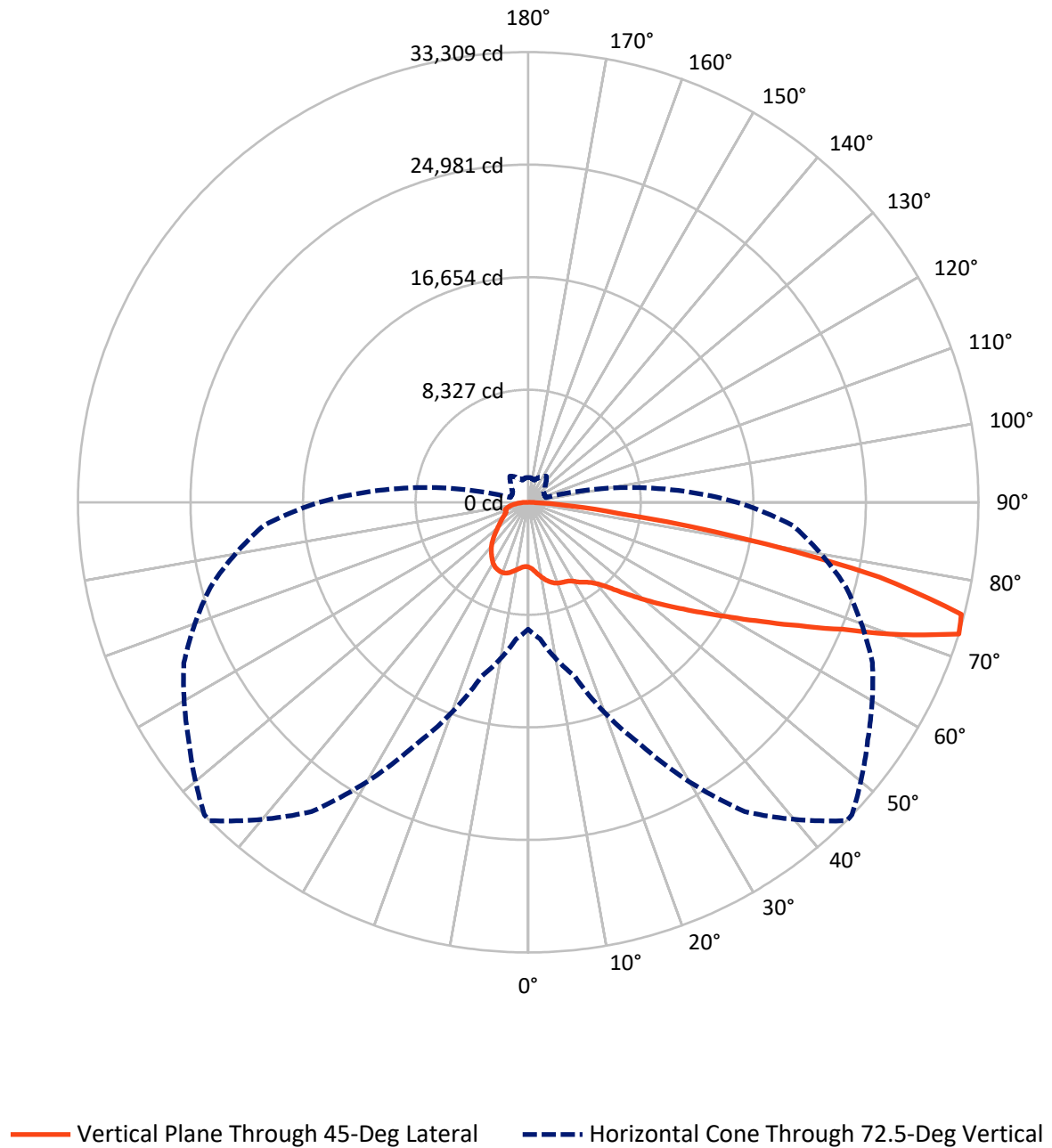


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10733.6	0.0	10733.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	36746.4	0.0	36746.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	47480.0	0.0	47480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	487.5	1.0
10°-20°	1625.4	3.4
20°-30°	2827.5	6.0
30°-40°	4053.4	8.5
40°-50°	5707.4	12.0
50°-60°	8742.0	18.4
60°-70°	12664.1	26.7
70°-80°	10113.1	21.3
80°-90°	1259.5	2.7
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°	47480.0	100.0
0°-180°	47480.0	100.0

Coefficient of Utilization



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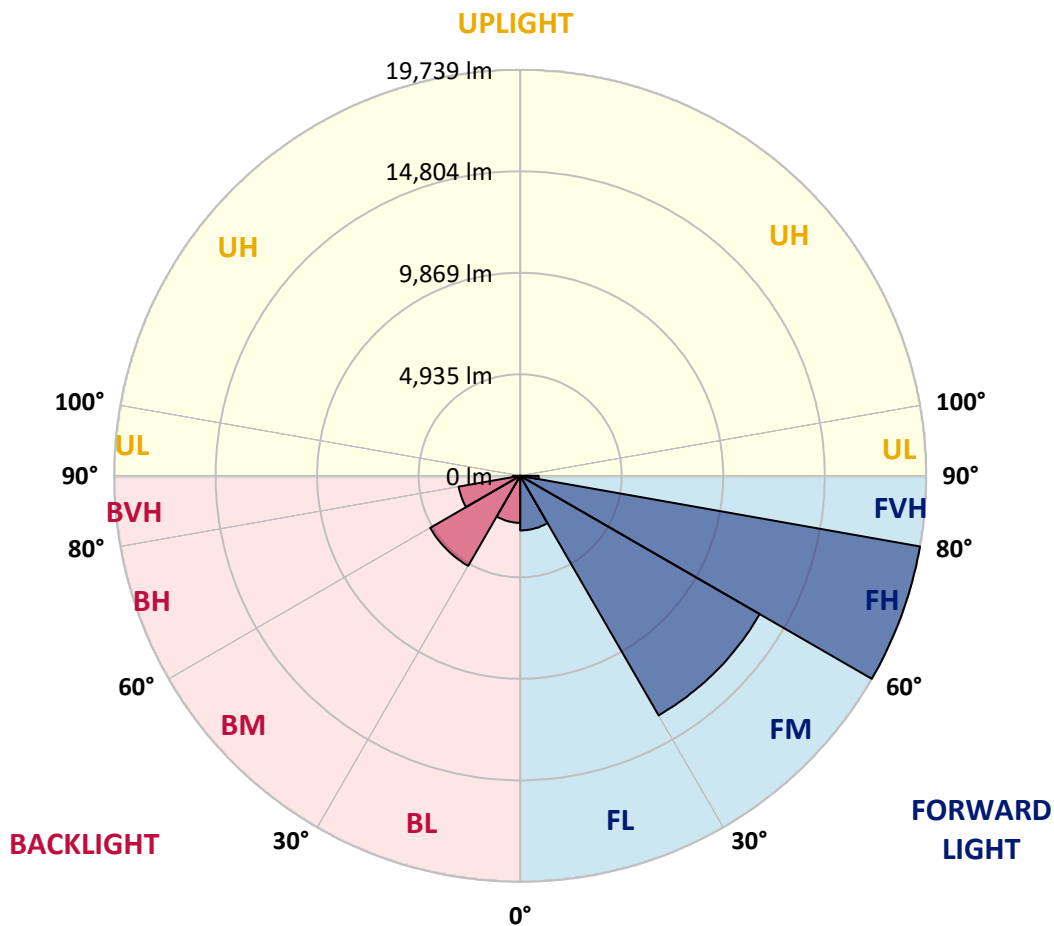
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2655.2	5.6			
FM	(30°-60°)	13448.8	28.3			
FH	(60°-80°)	19738.8	41.6			G5
FVH	(80°-90°)	903.6	1.9			G5
BL	(0°-30°)	2285.3	4.8	B3/2500		
BM	(30°-60°)	5054.0	10.6	B4/8500		
BH	(60°-80°)	3038.4	6.4	B4/5000		G4/5000
BVH	(80°-90°)	355.9	0.7			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°	46°	55°	65°	75°	85°
0°	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8
2.5°	4977.4	5009.9	4979.9	4952.4	4939.9	4907.4	4904.9	4884.9	4872.3	4837.3	4827.3
5°	5325.1	5367.6	5317.6	5262.5	5212.5	5132.5	5122.5	5064.9	4999.9	4924.9	4882.4
7.5°	5717.8	5755.3	5697.7	5615.2	5527.7	5395.1	5392.6	5287.5	5185.0	5057.4	4984.9
10°	6060.4	6110.4	6032.9	5920.4	5810.3	5660.2	5642.7	5522.7	5392.6	5227.5	5117.5
12.5°	6363.1	6398.1	6323.0	6185.5	6057.9	5907.8	5885.3	5752.8	5607.7	5420.1	5280.0
15°	6603.2	6648.2	6548.2	6400.6	6265.5	6117.9	6097.9	5977.9	5832.8	5635.2	5455.1
17.5°	6760.8	6798.3	6695.7	6530.6	6400.6	6278.0	6263.0	6163.0	6035.4	5835.3	5642.7
20°	6820.8	6860.8	6753.3	6585.7	6465.6	6370.6	6363.1	6290.5	6203.0	6020.4	5825.3
22.5°	6880.8	6918.3	6778.3	6603.2	6498.1	6438.1	6435.6	6388.1	6353.1	6203.0	6012.9
25°	7123.4	7133.4	6945.8	6693.2	6543.2	6490.6	6488.1	6485.6	6500.6	6383.1	6215.5
27.5°	7333.5	7331.0	7171.0	6933.3	6700.7	6590.7	6588.2	6613.2	6660.7	6563.2	6425.6
30°	7641.2	7613.7	7423.6	7176.0	6963.4	6793.3	6778.3	6755.8	6793.3	6715.7	6635.7
32.5°	8294.0	8206.5	7898.8	7458.6	7181.0	7050.9	7030.9	6890.8	6905.8	6858.3	6818.3
35°	9229.4	9114.4	8704.2	7993.9	7451.1	7266.0	7256.0	7078.4	7048.4	7005.9	7020.9
37.5°	10342.5	10199.9	9722.2	8769.2	7916.3	7516.1	7501.1	7341.0	7218.5	7173.5	7258.5
40°	11460.5	11280.4	10885.2	9714.7	8601.6	7933.8	7886.3	7643.7	7503.6	7428.6	7608.7
42.5°	12546.0	12396.0	12058.3	10775.2	9447.1	8544.1	8439.1	8023.9	7918.8	7848.8	8173.9
45°	13506.5	13371.4	13123.8	11908.2	10437.5	9374.5	9272.0	8594.1	8561.6	8561.6	9031.9
47.5°	14286.9	14256.9	13994.2	13063.8	11605.6	10320.0	10142.4	9387.0	9474.6	9609.6	10249.9
50°	15152.3	15069.8	14789.6	14201.8	12978.8	11403.0	11257.9	10360.0	10687.6	11057.8	12010.8
52.5°	15947.7	15992.7	15680.1	15387.4	14529.5	12611.1	12356.0	11508.0	12215.9	12828.7	14074.3
55°	16765.6	16768.1	16680.5	16640.5	16155.3	13946.7	13666.6	12888.7	14014.3	14774.6	16480.4
57.5°	17533.4	17538.5	17668.5	18021.2	18041.2	15487.5	15169.8	14584.5	16012.7	16788.1	18961.6
60°	18218.8	18253.8	18609.0	19434.4	19699.5	17253.3	16953.2	16588.0	18078.7	18859.1	21570.4
62.5°	18448.9	18576.5	19366.8	20539.9	21337.8	19419.4	19124.2	18906.6	20249.8	20975.1	23751.4
65°	18058.7	18351.3	19879.6	21452.8	23023.6	21993.1	21700.5	21462.8	22505.8	23188.7	25542.3
67.5°	17100.7	17478.4	19849.6	22410.8	25069.6	25089.6	24817.0	24259.2	24924.5	25187.1	26125.1
70°	14577.0	15142.3	18101.2	22768.5	27418.2	29324.1	29061.5	27625.8	27338.2	26067.6	24484.3
72.5°	9392.0	10152.4	13328.9	19824.6	27941.0	33308.5	33293.5	30664.8	28101.0	24356.7	19637.0
75°	3426.7	3891.9	6193.0	12443.5	23453.8	33106.0	33203.5	30144.5	25652.4	18814.1	12233.4
77.5°	1248.1	1365.7	2021.0	4782.3	14424.5	26562.8	26765.4	24099.1	18258.8	9442.0	4847.3
80°	655.3	720.3	1035.5	1855.9	6180.5	15775.1	16092.8	14321.9	8581.6	2843.9	1453.2
82.5°	362.7	392.7	580.3	1008.0	2783.8	6745.8	6935.8	5657.7	3019.0	1205.6	600.3
85°	195.1	207.6	272.6	550.3	1360.7	2338.6	2391.2	1690.8	1203.1	707.8	290.1
87.5°	57.5	70.0	90.0	175.1	532.8	525.3	537.8	335.2	475.2	357.7	95.0
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°	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8	4789.8
2.5°	4812.3	4804.8	4777.3	4764.8	4749.8	4747.3	4759.8	4762.3	4764.8	4767.3	4777.3
5°	4857.3	4832.3	4807.3	4792.3	4797.3	4799.8	4824.8	4842.3	4854.8	4864.8	4869.8
7.5°	4944.9	4924.9	4882.4	4879.9	4887.4	4909.9	4942.4	4982.4	5004.9	5022.4	5027.4
10°	5074.9	5037.4	4987.4	4994.9	5009.9	5042.4	5110.0	5142.5	5180.0	5212.5	5205.0
12.5°	5207.5	5175.0	5117.5	5122.5	5147.5	5205.0	5270.0	5310.1	5335.1	5360.1	5370.1
15°	5380.1	5322.6	5260.0	5260.0	5305.1	5367.6	5397.6	5430.1	5445.1	5472.6	5482.6
17.5°	5557.7	5482.6	5400.1	5395.1	5450.1	5480.1	5497.6	5502.7	5507.7	5537.7	5547.7
20°	5735.3	5652.7	5535.2	5525.2	5537.7	5532.7	5530.2	5525.2	5532.7	5570.2	5585.2
22.5°	5910.3	5815.3	5652.7	5607.7	5572.7	5525.2	5522.7	5520.2	5525.2	5562.7	5587.7
25°	6115.4	6000.4	5782.8	5647.7	5530.2	5465.1	5472.6	5475.1	5480.1	5510.2	5550.2
27.5°	6338.1	6210.5	5902.8	5635.2	5422.6	5377.6	5365.1	5372.6	5390.1	5437.6	5485.1
30°	6560.7	6410.6	6012.9	5585.2	5287.5	5225.0	5185.0	5202.5	5257.5	5305.1	5357.6
32.5°	6763.3	6613.2	6100.4	5475.1	5115.0	5017.4	4964.9	4987.4	5042.4	5059.9	5122.5
35°	7000.9	6830.8	6138.0	5300.1	4927.4	4777.3	4707.3	4674.8	4702.3	4684.8	4739.8
37.5°	7266.0	7088.4	6133.0	5069.9	4707.3	4534.7	4437.1	4314.6	4257.1	4197.0	4234.5
40°	7658.7	7403.6	6072.9	4792.3	4434.6	4277.1	4102.0	3894.4	3764.3	3646.8	3654.3
42.5°	8193.9	7841.3	5962.9	4487.2	4127.0	3979.4	3741.8	3499.2	3294.1	3099.0	3081.5
45°	8991.8	8414.1	5825.3	4162.0	3794.3	3649.3	3391.6	3119.0	2886.4	2636.3	2606.3
47.5°	10142.4	9184.4	5695.2	3791.8	3444.2	3311.6	3079.0	2826.4	2551.2	2308.6	2281.1
50°	11723.1	10290.0	5575.2	3431.7	3099.0	2998.9	2813.9	2556.2	2278.6	2083.5	2071.0
52.5°	13734.1	11793.2	5525.2	3084.0	2776.3	2738.8	2591.2	2351.1	2088.5	1923.4	1910.9
55°	16042.7	13591.5	5525.2	2751.3	2493.7	2506.2	2403.7	2181.1	1953.4	1805.9	1790.9
57.5°	18398.9	15412.4	5425.1	2443.7	2253.6	2306.1	2241.1	2046.0	1840.9	1688.3	1663.3
60°	20569.9	16938.2	5019.9	2163.5	2041.0	2123.5	2081.0	1913.4	1663.3	1535.7	1515.7
62.5°	22238.2	17798.6	4239.5	1940.9	1865.9	1960.9	1938.4	1738.3	1630.8	1578.3	1560.8
65°	23073.6	17658.5	3241.6	1743.3	1718.3	1865.9	1818.4	1810.9	1725.8	1665.8	1645.8
67.5°	22560.9	16452.9	2351.1	1598.3	1633.3	1778.4	1960.9	1991.0	1833.4	1715.8	1695.8
70°	20312.3	14271.9	1750.8	1460.7	1525.7	1780.9	2236.1	2083.5	1798.4	1660.8	1638.3
72.5°	15452.4	10642.6	1358.2	1315.6	1385.7	1793.4	2358.6	2041.0	1698.3	1835.9	1820.9
75°	8836.8	5842.8	1090.5	1138.0	1210.6	1675.8	2296.1	1930.9	1620.8	1685.8	1685.8
77.5°	3369.1	2246.1	900.4	963.0	973.0	1463.2	2196.1	1923.4	1543.2	1505.7	1373.2
80°	1168.1	877.9	745.4	765.4	752.9	1300.6	2106.0	1673.3	1263.1	1130.5	1093.0
82.5°	477.7	437.7	590.3	565.3	535.3	1010.5	1700.8	1368.2	1033.0	912.9	902.9
85°	207.6	277.6	390.2	342.7	310.1	700.3	1363.2	1158.1	872.9	752.9	750.4
87.5°	42.5	105.1	165.1	155.1	160.1	467.7	968.0	822.9	617.8	462.7	362.7
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)