

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: P956631

Luminaire Tested: **GALN-SB9B-722-U-T4W**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P956631
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-722-U-T4W
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42287 lumens
Efficiency: N/A
Efficacy: 128.3 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



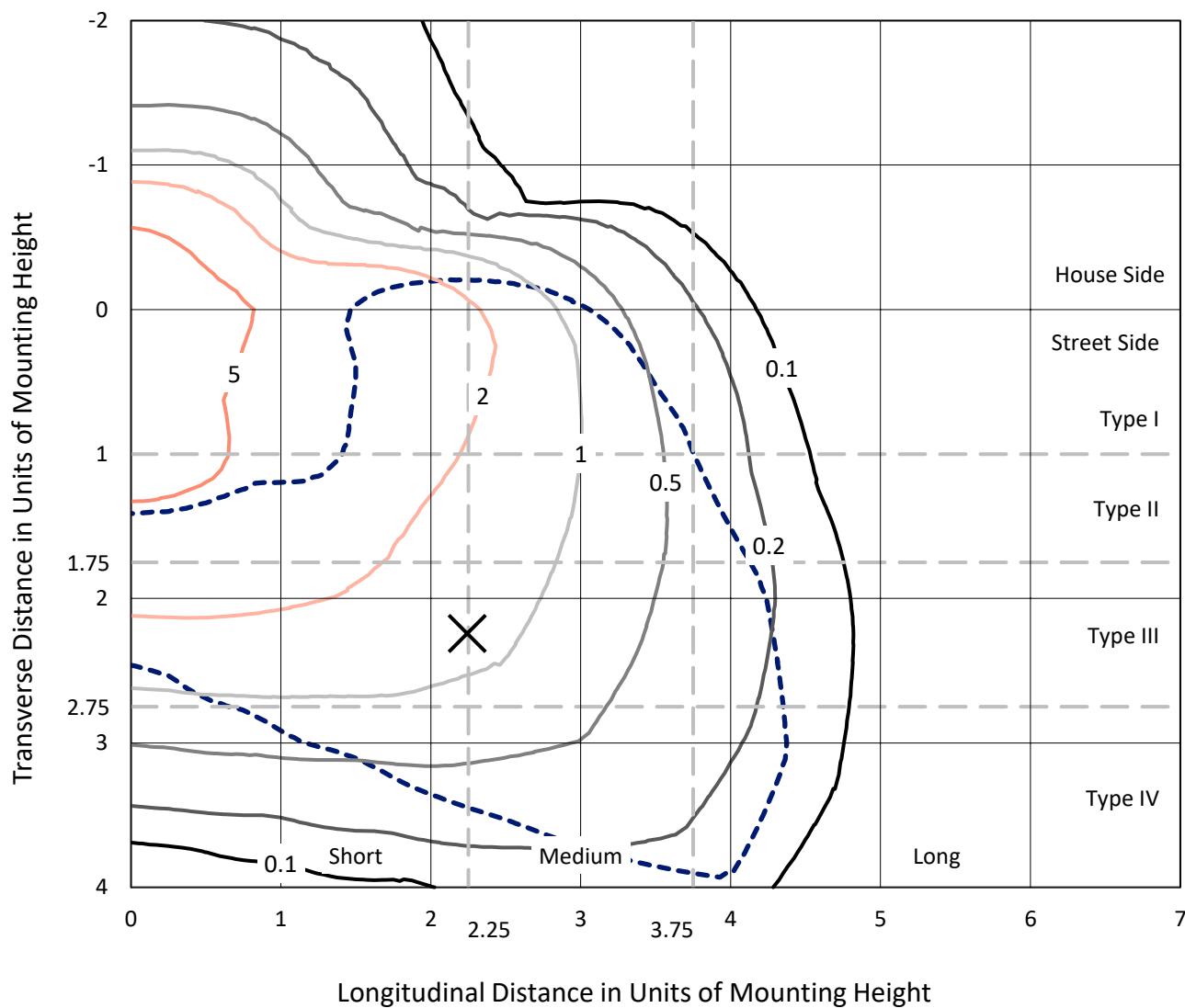
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



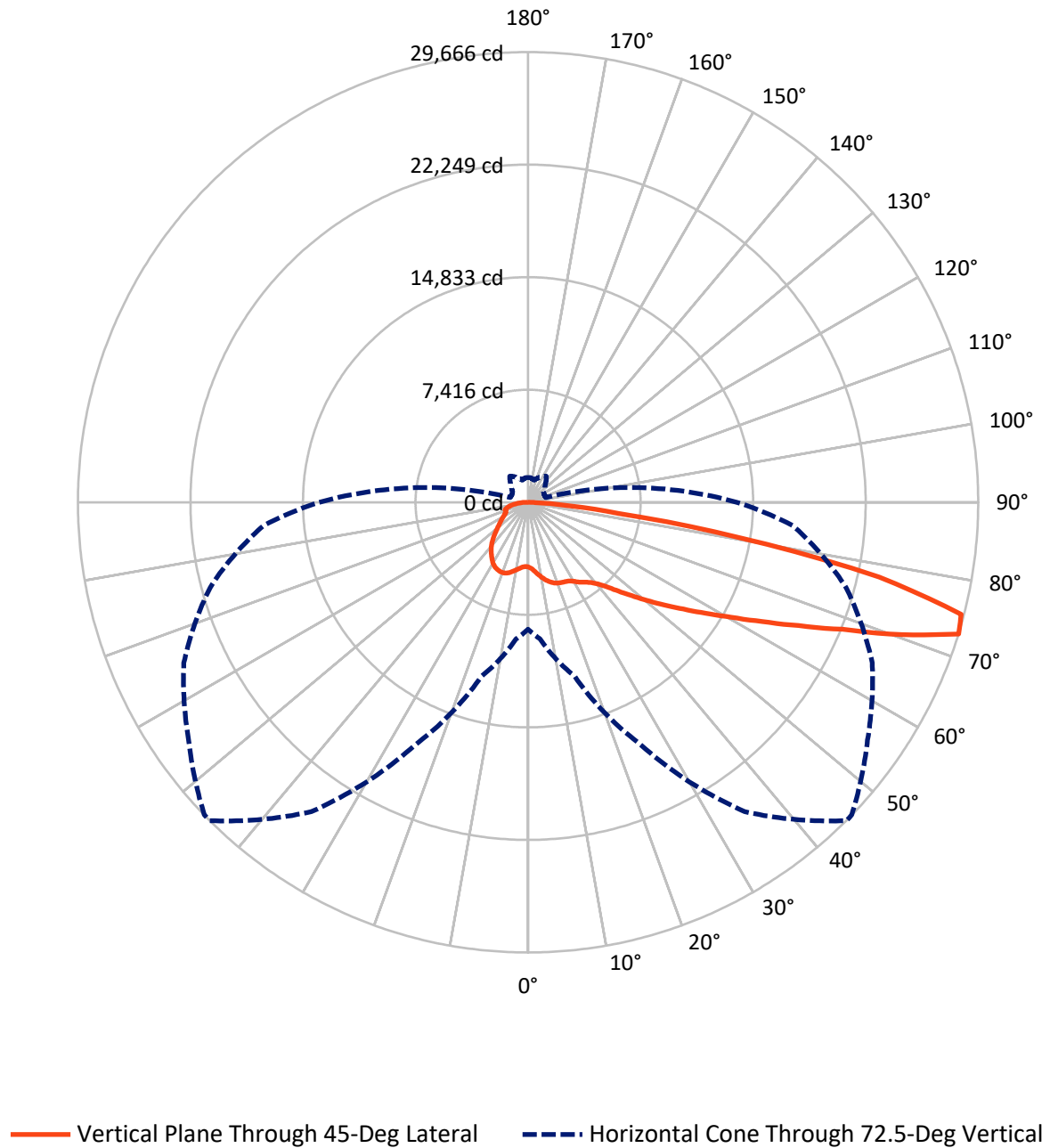
Based on 25 foot mounting height. Maximum calculated value = 8.5 fc

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	9559.6	0.0	9559.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	32727.4	0.0	32727.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	42287.0	0.0	42287.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.2	1.0
10°-20°	1447.6	3.4
20°-30°	2518.3	6.0
30°-40°	3610.0	8.5
40°-50°	5083.2	12.0
50°-60°	7785.9	18.4
60°-70°	11279.0	26.7
70°-80°	9007.0	21.3
80°-90°	1121.8	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°	42287.0	100.0
0°-180°	42287.0	100.0

Coefficient of Utilization



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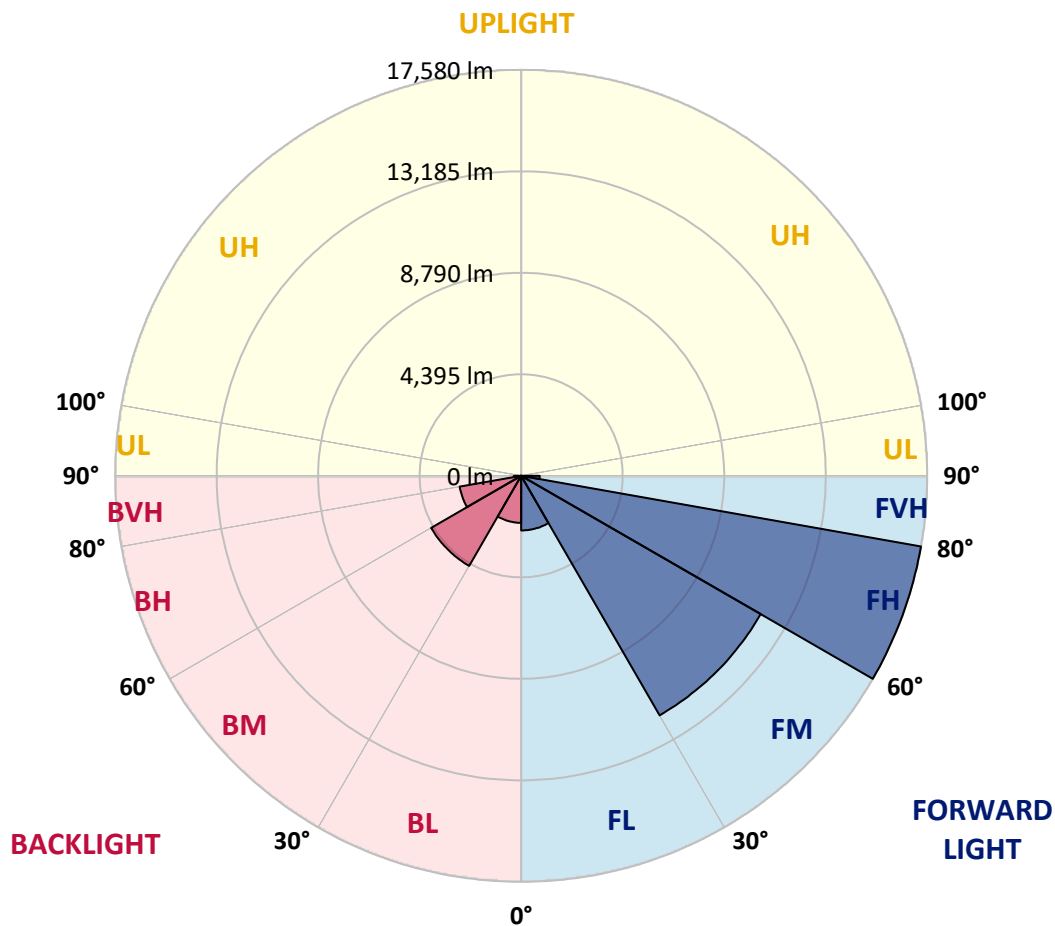
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2364.8	5.6			
FM	(30°-60°)	11977.9	28.3			
FH	(60°-80°)	17579.9	41.6			G5
FVH	(80°-90°)	804.8	1.9			G5
BL	(0°-30°)	2035.3	4.8	B3/2500		
BM	(30°-60°)	4501.2	10.6	B3/5000		
BH	(60°-80°)	2706.1	6.4	B4/5000		G4/5000
BVH	(80°-90°)	317.0	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°	4265.9	4265.9	4265.9	4265.9	4265.9	4265.9	4265.9	4265.9	4265.9	4265.9	4265.9
2.5°	4433.0	4462.0	4435.2	4410.7	4399.6	4370.6	4368.4	4350.6	4339.4	4308.3	4299.3
5°	4742.7	4780.5	4736.0	4687.0	4642.4	4571.1	4562.2	4511.0	4453.1	4386.2	4348.4
7.5°	5092.4	5125.8	5074.6	5001.1	4923.1	4805.0	4802.8	4709.2	4617.9	4504.3	4439.7
10°	5397.6	5442.1	5373.1	5272.8	5174.8	5041.2	5025.6	4918.6	4802.8	4655.8	4557.8
12.5°	5667.1	5698.3	5631.5	5509.0	5395.3	5261.7	5241.6	5123.6	4994.4	4827.3	4702.6
15°	5881.0	5921.1	5832.0	5700.5	5580.2	5448.8	5431.0	5324.1	5194.9	5018.9	4858.5
17.5°	6021.3	6054.7	5963.4	5816.4	5700.5	5591.4	5578.0	5488.9	5375.3	5197.1	5025.6
20°	6074.8	6110.4	6014.6	5865.4	5758.5	5673.8	5667.1	5602.5	5524.6	5361.9	5188.2
22.5°	6128.2	6161.7	6036.9	5881.0	5787.4	5734.0	5731.7	5689.4	5658.2	5524.6	5355.3
25°	6344.3	6353.2	6186.2	5961.2	5827.5	5780.7	5778.5	5776.3	5789.6	5684.9	5535.7
27.5°	6531.4	6529.2	6386.7	6175.0	5967.9	5869.8	5867.6	5889.9	5932.2	5845.3	5722.8
30°	6805.4	6780.9	6611.6	6391.1	6201.8	6050.3	6036.9	6016.9	6050.3	5981.2	5909.9
32.5°	7386.9	7308.9	7034.9	6642.8	6395.6	6279.7	6261.9	6137.2	6150.5	6108.2	6072.6
35°	8220.0	8117.5	7752.2	7119.5	6636.1	6471.3	6462.4	6304.2	6277.5	6239.6	6253.0
37.5°	9211.3	9084.3	8658.8	7810.1	7050.5	6694.1	6680.7	6538.1	6429.0	6388.9	6464.6
40°	10207.1	10046.7	9694.7	8652.2	7660.9	7066.1	7023.8	6807.7	6682.9	6616.1	6776.5
42.5°	11173.9	11040.2	10739.5	9596.7	8413.8	7609.6	7516.1	7146.3	7052.7	6990.3	7279.9
45°	12029.3	11909.0	11688.4	10605.8	9296.0	8349.2	8257.9	7654.2	7625.2	7625.2	8044.0
47.5°	12724.3	12697.6	12463.7	11635.0	10336.3	9191.3	9033.1	8360.3	8438.3	8558.6	9128.9
50°	13495.1	13421.5	13172.0	12648.6	11559.2	10155.8	10026.6	9226.9	9518.7	9848.4	10697.1
52.5°	14203.4	14243.5	13965.1	13704.5	12940.4	11231.8	11004.6	10249.4	10879.8	11425.6	12534.9
55°	14931.9	14934.1	14856.1	14820.5	14388.3	12421.3	12171.8	11479.0	12481.5	13158.7	14677.9
57.5°	15615.8	15620.2	15736.1	16050.2	16068.0	13793.6	13510.7	12989.4	14261.4	14951.9	16887.8
60°	16226.1	16257.3	16573.7	17308.8	17544.9	15366.3	15099.0	14773.7	16101.4	16796.4	19211.2
62.5°	16431.1	16544.7	17248.6	18293.4	19004.0	17295.4	17032.6	16838.7	18035.0	18681.0	21153.7
65°	16083.6	16344.2	17705.3	19106.5	20505.4	19587.7	19327.0	19115.4	20044.3	20652.5	22748.7
67.5°	15230.4	15566.8	17678.6	19959.7	22327.7	22345.5	22102.7	21605.9	22198.5	22432.4	23267.7
70°	12982.7	13486.1	16121.4	20278.2	24419.4	26116.9	25883.0	24604.3	24348.1	23216.5	21806.4
72.5°	8364.8	9042.0	11871.1	17656.3	24885.0	29665.5	29652.1	27310.9	25027.6	21692.8	17489.2
75°	3051.9	3466.2	5515.6	11082.5	20888.6	29485.1	29572.0	26847.5	22846.7	16756.3	10895.4
77.5°	1111.6	1216.3	1799.9	4259.3	12846.8	23657.6	23838.0	21463.3	16261.8	8409.4	4317.2
80°	583.6	641.6	922.2	1652.9	5504.5	14049.7	14332.7	12755.5	7643.0	2532.8	1294.3
82.5°	323.0	349.7	516.8	897.7	2479.4	6008.0	6177.3	5038.9	2688.8	1073.7	534.6
85°	173.8	184.9	242.8	490.1	1211.8	2082.8	2129.6	1505.9	1071.5	630.4	258.4
87.5°	51.2	62.4	80.2	155.9	474.5	467.8	478.9	298.5	423.3	318.6	84.7
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°	4265.9	4265.9	4265.9	4265.9	4265.9	4265.9	4265.9	4265.9	4265.9	4265.9	4265.9
2.5°	4286.0	4279.3	4254.8	4243.7	4230.3	4228.1	4239.2	4241.4	4243.7	4245.9	4254.8
5°	4326.1	4303.8	4281.5	4268.2	4272.6	4274.8	4297.1	4312.7	4323.9	4332.8	4337.2
7.5°	4404.0	4386.2	4348.4	4346.1	4352.8	4372.9	4401.8	4437.5	4457.5	4473.1	4477.6
10°	4519.9	4486.5	4441.9	4448.6	4462.0	4490.9	4551.1	4580.0	4613.4	4642.4	4635.7
12.5°	4638.0	4609.0	4557.8	4562.2	4584.5	4635.7	4693.6	4729.3	4751.6	4773.8	4782.7
15°	4791.7	4740.4	4684.7	4684.7	4724.8	4780.5	4807.3	4836.2	4849.6	4874.1	4883.0
17.5°	4949.8	4883.0	4809.5	4805.0	4854.0	4880.8	4896.4	4900.8	4905.3	4932.0	4940.9
20°	5108.0	5034.5	4929.8	4920.9	4932.0	4927.5	4925.3	4920.9	4927.5	4961.0	4974.3
22.5°	5263.9	5179.3	5034.5	4994.4	4963.2	4920.9	4918.6	4916.4	4920.9	4954.3	4976.6
25°	5446.6	5344.1	5150.3	5030.0	4925.3	4867.4	4874.1	4876.3	4880.8	4907.5	4943.1
27.5°	5644.8	5531.2	5257.2	5018.9	4829.5	4789.4	4778.3	4785.0	4800.6	4842.9	4885.2
30°	5843.1	5709.4	5355.3	4974.3	4709.2	4653.5	4617.9	4633.5	4682.5	4724.8	4771.6
32.5°	6023.5	5889.9	5433.2	4876.3	4555.5	4468.7	4421.9	4441.9	4490.9	4506.5	4562.2
35°	6235.2	6083.7	5466.6	4720.4	4388.5	4254.8	4192.4	4163.5	4188.0	4172.4	4221.4
37.5°	6471.3	6313.1	5462.2	4515.4	4192.4	4038.7	3951.8	3842.7	3791.4	3738.0	3771.4
40°	6821.0	6593.8	5408.7	4268.2	3949.6	3809.3	3653.3	3468.4	3352.6	3247.9	3254.6
42.5°	7297.8	6983.7	5310.7	3996.4	3675.6	3544.2	3332.6	3116.5	2933.8	2760.0	2744.5
45°	8008.4	7493.8	5188.2	3706.8	3379.3	3250.1	3020.7	2777.9	2570.7	2347.9	2321.2
47.5°	9033.1	8179.9	5072.3	3377.1	3067.5	2949.4	2742.2	2517.2	2272.2	2056.1	2031.6
50°	10441.0	9164.5	4965.4	3056.3	2760.0	2670.9	2506.1	2276.7	2029.4	1855.6	1844.5
52.5°	12232.0	10503.3	4920.9	2746.7	2472.7	2439.3	2307.8	2094.0	1860.1	1713.1	1701.9
55°	14288.1	12105.0	4920.9	2450.4	2221.0	2232.1	2140.8	1942.5	1739.8	1608.4	1595.0
57.5°	16386.5	13726.7	4831.8	2176.4	2007.1	2053.9	1996.0	1822.2	1639.5	1503.7	1481.4
60°	18320.1	15085.6	4470.9	1926.9	1817.8	1891.3	1853.4	1704.1	1481.4	1367.8	1350.0
62.5°	19806.0	15851.9	3775.9	1728.7	1661.8	1746.5	1726.4	1548.2	1452.4	1405.6	1390.0
65°	20550.0	15727.2	2887.0	1552.7	1530.4	1661.8	1619.5	1612.8	1537.1	1483.6	1465.8
67.5°	20093.3	14653.4	2094.0	1423.5	1454.7	1583.9	1746.5	1773.2	1632.9	1528.2	1510.3
70°	18090.7	12710.9	1559.3	1300.9	1358.9	1586.1	1991.5	1855.6	1601.7	1479.2	1459.1
72.5°	13762.4	9478.6	1209.6	1171.7	1234.1	1597.2	2100.7	1817.8	1512.6	1635.1	1621.7
75°	7870.3	5203.8	971.3	1013.6	1078.2	1492.5	2045.0	1719.7	1443.5	1501.4	1501.4
77.5°	3000.6	2000.4	802.0	857.6	866.6	1303.2	1955.9	1713.1	1374.5	1341.0	1223.0
80°	1040.3	781.9	663.8	681.7	670.5	1158.4	1875.7	1490.3	1125.0	1006.9	973.5
82.5°	425.5	389.8	525.7	503.4	476.7	900.0	1514.8	1218.5	920.0	813.1	804.2
85°	184.9	247.3	347.5	305.2	276.2	623.7	1214.1	1031.4	777.4	670.5	668.3
87.5°	37.9	93.6	147.0	138.1	142.6	416.6	862.1	732.9	550.2	412.1	323.0
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)