

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: P944167

Luminaire Tested: **GALN-SB9A-727-U-T3**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944167
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9A-727-U-T3
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37923 lumens
Efficiency: N/A
Efficacy: 148.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 255.5
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



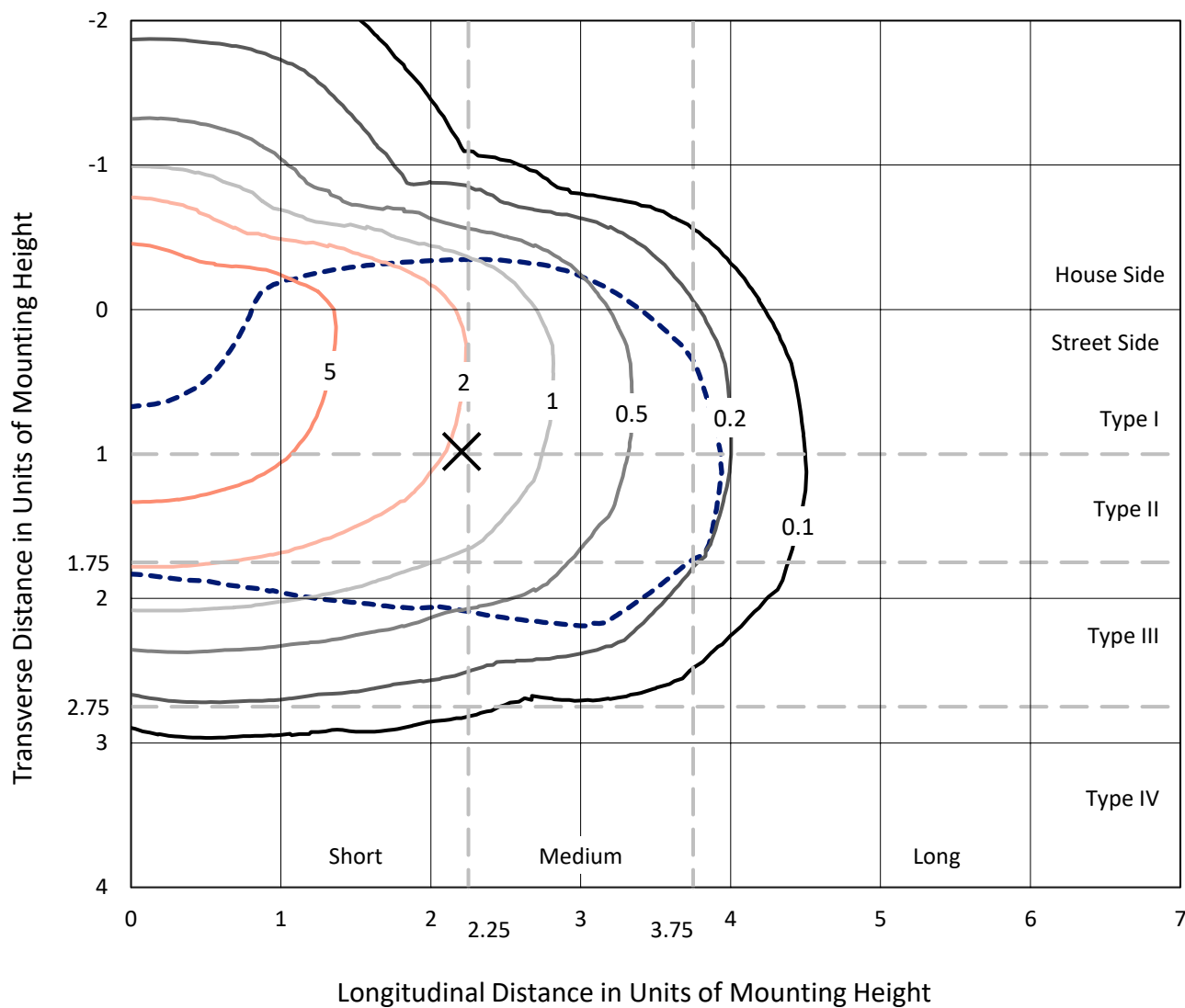
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Iso-Footcandle Lines of Horizontal Illumination

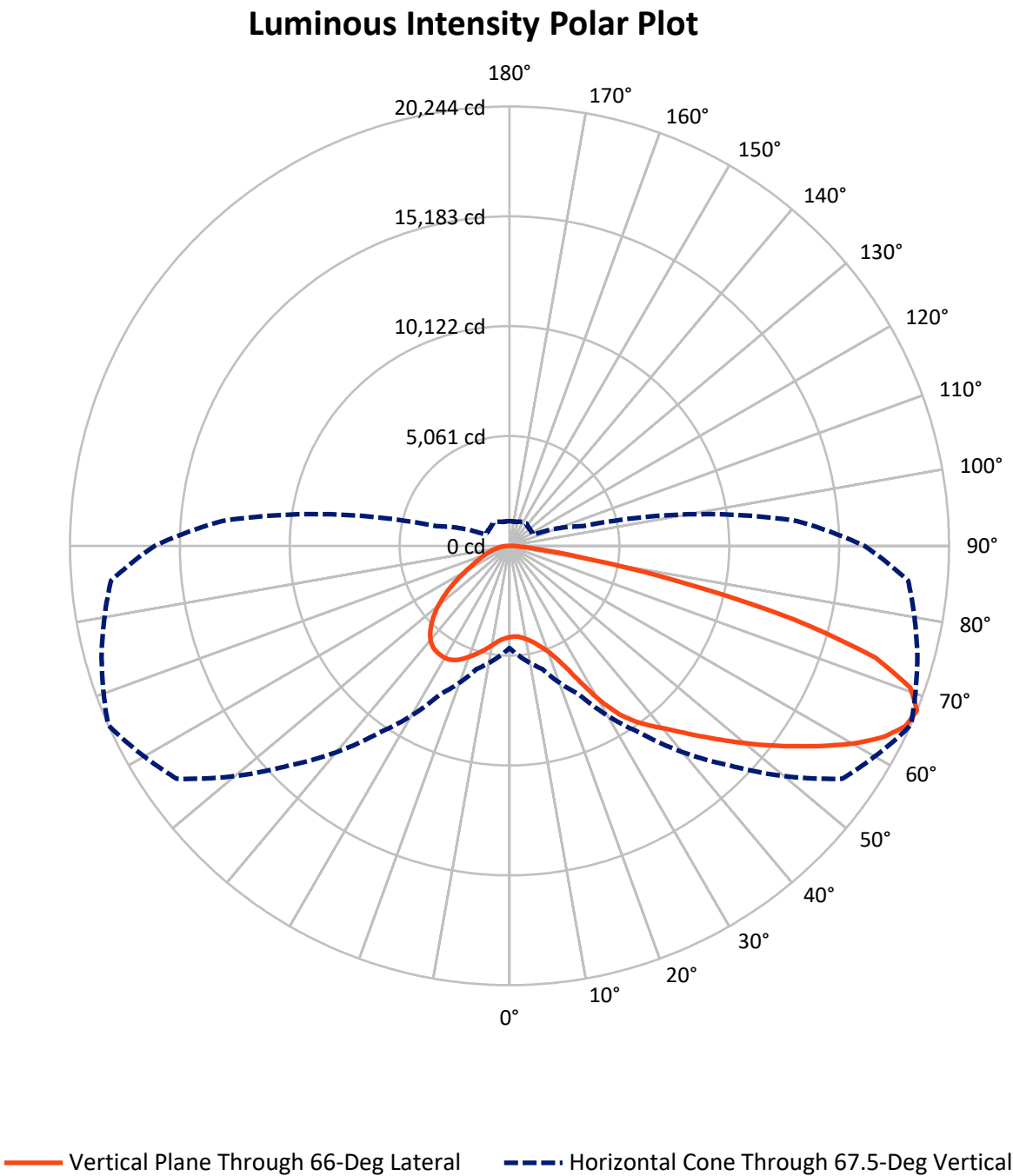
✕ Max cd

--- 1/2 Max cd



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

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9429.4	0.0	9429.4
	% Fixture	24.9	0.0	24.9
Street Side	Lumens	28493.5	0.0	28493.5
	% Fixture	75.1	0.0	75.1
Total	Lumens	37923.0	0.0	37923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.0	1.1
10°-20°	1377.8	3.6
20°-30°	2655.6	7.0
30°-40°	4656.3	12.3
40°-50°	6922.4	18.3
50°-60°	8774.8	23.1
60°-70°	8585.9	22.6
70°-80°	4095.6	10.8
80°-90°	437.7	1.2
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°	37923.0	100.0
0°-180°	37923.0	100.0

Coefficient of Utilization



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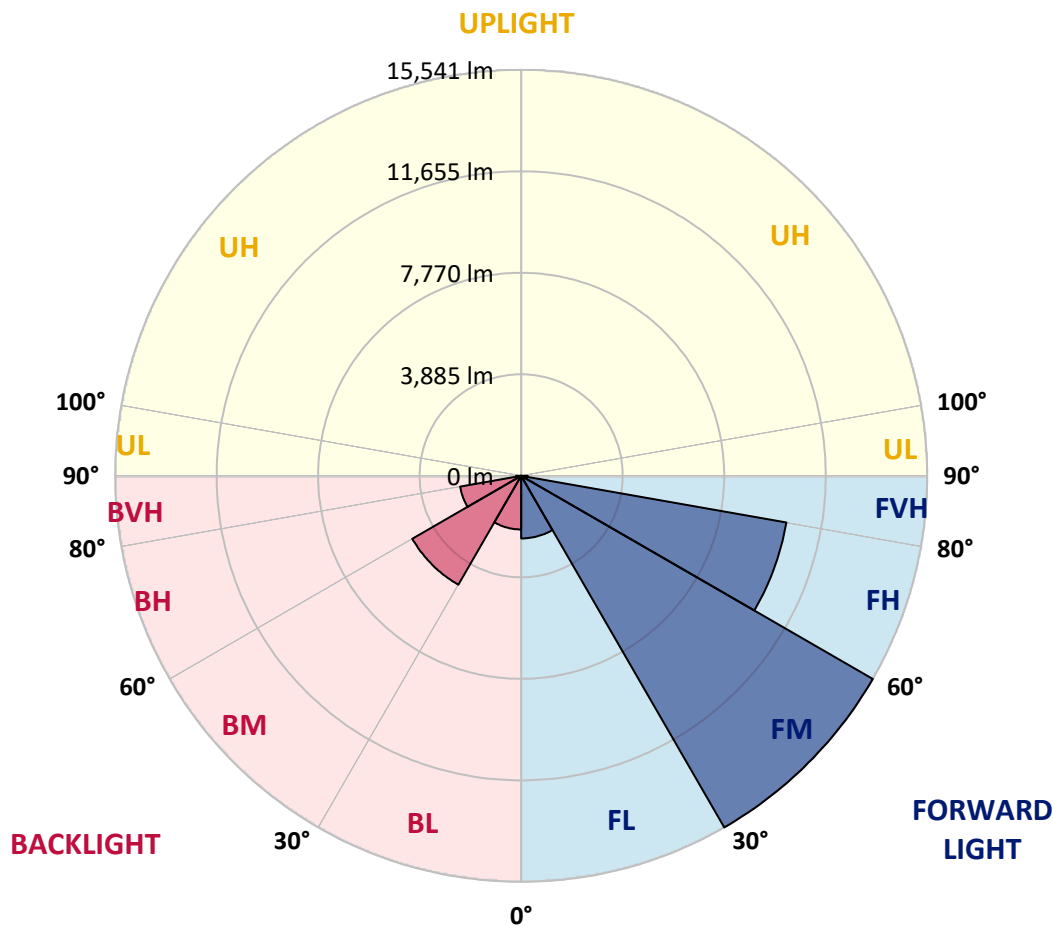
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2396.4	6.3			
FM	(30°-60°)	15540.5	41.0			
FH	(60°-80°)	10308.5	27.2			G4/12000
FVH	(80°-90°)	248.2	0.7			G3/500
BL	(0°-30°)	2054.1	5.4	B3/2500		
BM	(30°-60°)	4812.9	12.7	B3/5000		
BH	(60°-80°)	2372.9	6.3	B3/2500		G3/2500
BVH	(80°-90°)	189.5	0.5			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	4206.2	4206.2	4206.2	4206.2	4206.2	4206.2	4206.2	4206.2	4206.2	4206.2	4206.2
2.5°	4162.3	4186.2	4180.3	4170.3	4168.3	4172.3	4178.3	4184.2	4182.3	4192.2	4208.2
5°	4150.4	4174.3	4172.3	4172.3	4180.3	4196.2	4206.2	4216.1	4206.2	4218.1	4240.0
7.5°	4158.3	4176.3	4184.2	4192.2	4212.1	4242.0	4265.9	4287.9	4275.9	4289.8	4317.7
10°	4260.0	4273.9	4281.9	4281.9	4295.8	4329.7	4353.6	4393.5	4383.5	4405.4	4441.3
12.5°	4445.3	4459.2	4459.2	4451.2	4461.2	4483.1	4491.1	4534.9	4517.0	4552.9	4588.7
15°	4672.4	4700.3	4678.4	4664.4	4668.4	4690.3	4688.3	4722.2	4704.3	4734.2	4766.1
17.5°	4923.5	4959.3	4923.5	4921.5	4913.5	4937.4	4939.4	4969.3	4937.4	4959.3	4981.2
20°	5220.3	5270.2	5240.3	5250.2	5232.3	5242.3	5252.2	5296.1	5246.2	5262.2	5256.2
22.5°	5638.8	5698.5	5666.7	5704.5	5692.6	5684.6	5682.6	5760.3	5682.6	5688.6	5630.8
25°	6248.5	6320.2	6264.4	6316.2	6316.2	6342.1	6372.0	6471.6	6342.1	6304.3	6154.8
27.5°	7149.1	7220.8	7111.2	7143.1	7133.1	7196.9	7165.0	7412.1	7272.6	7210.8	6910.0
30°	8233.0	8360.5	8153.3	8145.3	8135.4	8237.0	8282.8	8446.2	8304.7	8243.0	7880.3
32.5°	9404.6	9538.1	9291.0	9219.3	9181.4	9243.2	9205.3	9336.8	9239.2	9143.6	8695.3
35°	10643.9	10775.4	10540.3	10400.8	10249.4	10119.9	9984.4	10018.3	9926.6	9781.2	9316.9
37.5°	11815.5	12056.6	11807.5	11658.1	11379.2	11126.1	10747.5	10590.1	10504.4	10370.9	9902.7
40°	13009.0	13146.5	12957.2	12829.7	12526.8	12130.3	11524.6	11191.9	11076.3	10946.8	10550.3
42.5°	13887.7	14019.2	13917.6	13829.9	13592.8	13132.5	12349.5	11933.1	11765.7	11620.2	11283.5
45°	14585.1	14682.7	14619.0	14650.8	14549.2	14102.9	13204.3	12728.1	12554.7	12377.4	12112.4
47.5°	14866.0	14969.6	15071.2	15260.5	15433.9	15105.1	14122.8	13588.8	13405.5	13224.2	12963.2
50°	14834.1	14939.7	15234.6	15637.1	16175.1	16065.5	15091.2	14505.4	14336.0	14128.8	13887.7
52.5°	14579.1	14698.7	15077.2	15746.7	16603.5	16784.8	16077.5	15451.8	15292.4	15045.3	14804.3
55°	13909.6	13981.4	14549.2	15497.6	16705.1	17286.9	17043.8	16460.0	16300.6	15955.9	15692.9
57.5°	12668.3	12771.9	13598.8	14826.2	16450.1	17627.6	17892.6	17520.0	17366.6	16870.5	16595.5
60°	11048.4	11213.8	12160.2	13698.4	15800.5	17625.6	18663.7	18562.1	18434.6	17771.1	17484.2
62.5°	9215.3	9406.6	10317.2	12104.4	14664.8	17125.5	19145.9	19434.8	19369.1	18602.0	18235.3
65°	7077.4	7208.9	8115.4	10042.2	12897.4	16051.6	19201.7	20030.6	20042.5	19233.6	18627.9
67.5°	4712.3	5090.8	5877.9	7535.6	10530.3	14296.2	18711.5	20128.2	20243.8	19450.8	18430.6
70°	2299.3	2797.5	3568.6	4897.6	7535.6	11604.3	17430.4	19327.2	19584.3	18817.1	17255.0
72.5°	954.4	1115.8	1536.2	2416.9	4325.7	7830.5	14856.1	17155.4	17631.6	16673.2	14507.4
75°	643.6	697.4	878.7	1239.3	1970.6	3861.5	10713.7	12791.8	13558.9	12592.6	10293.2
77.5°	496.1	530.0	639.6	866.7	1171.6	1460.5	5734.4	7709.0	8105.5	7503.7	5355.8
80°	390.5	416.4	478.2	631.6	830.9	781.1	1954.6	3492.8	3722.0	3122.2	1721.5
82.5°	338.7	348.7	342.7	428.4	551.9	456.3	641.6	1289.1	1422.6	1032.1	561.9
85°	245.1	273.0	284.9	265.0	292.9	231.1	263.0	456.3	502.1	448.3	316.8
87.5°	99.6	147.4	181.3	171.4	107.6	65.8	81.7	133.5	153.4	167.4	103.6
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°	4206.2	4206.2	4206.2	4206.2	4206.2	4206.2	4206.2	4206.2	4206.2	4206.2	4206.2
2.5°	4210.1	4224.1	4234.1	4246.0	4254.0	4265.9	4289.8	4303.8	4305.8	4315.7	4313.8
5°	4248.0	4267.9	4289.8	4321.7	4357.6	4387.5	4433.3	4465.2	4477.1	4487.1	4485.1
7.5°	4329.7	4357.6	4397.4	4453.2	4505.0	4544.9	4600.7	4638.5	4676.4	4690.3	4692.3
10°	4451.2	4491.1	4548.9	4624.6	4680.4	4732.2	4790.0	4821.8	4859.7	4875.6	4883.6
12.5°	4602.7	4644.5	4720.2	4825.8	4877.6	4913.5	4933.4	4925.5	4933.4	4947.4	4951.4
15°	4776.0	4821.8	4907.5	5021.1	5057.0	5025.1	4981.2	4941.4	4935.4	4939.4	4953.3
17.5°	4981.2	5015.1	5114.7	5210.4	5184.5	5053.0	4957.3	4893.6	4861.7	4851.7	4865.7
20°	5268.2	5268.2	5349.9	5409.6	5236.3	5013.1	4863.7	4760.1	4694.3	4666.4	4660.5
22.5°	5616.8	5585.0	5636.8	5594.9	5226.3	4901.5	4694.3	4515.0	4415.4	4375.5	4369.5
25°	6059.2	6021.3	6007.4	5748.4	5154.6	4724.2	4387.5	4170.3	4082.6	4060.7	4064.7
27.5°	6726.7	6631.0	6449.7	5832.0	5023.1	4445.3	4028.8	3827.6	3777.8	3779.8	3785.7
30°	7615.3	7424.0	6979.7	5846.0	4807.9	4050.7	3662.2	3518.8	3494.8	3504.8	3538.7
32.5°	8438.2	8256.9	7521.7	5782.2	4477.1	3664.2	3333.4	3237.8	3201.9	3213.9	3229.8
35°	9083.8	9034.0	8023.8	5692.6	4070.7	3301.6	3038.6	2956.9	2887.1	2871.2	2883.1
37.5°	9693.5	9673.6	8400.4	5567.0	3668.2	3044.5	2801.5	2693.9	2592.2	2536.4	2538.4
40°	10363.0	10343.1	8647.4	5373.8	3311.5	2821.4	2588.3	2446.8	2321.3	2219.6	2229.6
42.5°	11116.1	10998.6	8765.0	5096.8	3008.7	2632.1	2414.9	2223.6	2058.2	1964.6	1970.6
45°	11939.0	11674.0	8763.0	4744.1	2753.6	2458.7	2229.6	1958.6	1805.2	1717.5	1713.5
47.5°	12811.8	12319.6	8655.4	4353.6	2506.6	2267.5	1942.7	1735.5	1633.8	1580.1	1568.1
50°	13712.4	12923.3	8472.1	3905.3	2253.5	2050.3	1763.4	1621.9	1544.2	1494.4	1476.4
52.5°	14559.2	13471.3	8250.9	3397.2	1996.5	1839.1	1683.7	1574.1	1492.4	1436.6	1412.7
55°	15346.2	13943.5	7938.1	2877.2	1787.3	1697.6	1645.8	1554.1	1460.5	1394.7	1368.8
57.5°	16045.6	14250.3	7398.1	2389.0	1637.8	1600.0	1606.0	1520.3	1412.7	1356.9	1321.0
60°	16627.4	14475.5	6599.2	1936.7	1516.3	1504.3	1544.2	1456.5	1331.0	1267.2	1239.3
62.5°	16976.1	14471.5	5618.8	1586.0	1412.7	1416.7	1462.5	1376.8	1249.3	1189.5	1171.6
65°	16946.2	14116.8	4542.9	1356.9	1313.1	1317.0	1376.8	1289.1	1181.6	1145.7	1143.7
67.5°	16346.4	13252.1	3484.9	1207.5	1203.5	1221.4	1291.1	1229.4	1139.7	1135.7	1141.7
70°	14722.6	11456.9	2510.5	1087.9	1089.9	1115.8	1207.5	1191.5	1117.8	1125.8	1123.8
72.5°	11805.5	8735.1	1685.7	962.4	964.4	1006.2	1127.8	1161.6	1095.9	1201.5	1217.4
75°	7862.4	5447.5	1083.9	828.9	830.9	884.7	1058.0	1103.8	1036.1	1197.5	1207.5
77.5°	3777.8	2448.8	785.0	697.4	697.4	747.2	914.6	988.3	882.7	930.5	852.8
80°	1305.1	920.5	617.7	561.9	549.9	583.8	771.1	856.8	761.1	701.4	657.5
82.5°	514.1	478.2	496.1	436.4	396.5	418.4	599.7	707.3	559.9	506.1	504.1
85°	294.9	310.8	350.7	288.9	229.1	257.0	440.3	508.1	422.4	372.6	380.6
87.5°	79.7	109.6	161.4	149.4	103.6	109.6	209.2	280.9	243.1	187.3	193.3
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)