

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: P652147

Luminaire Tested: **GALN-SA9A-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P652147
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-SA9A-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34891.4 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

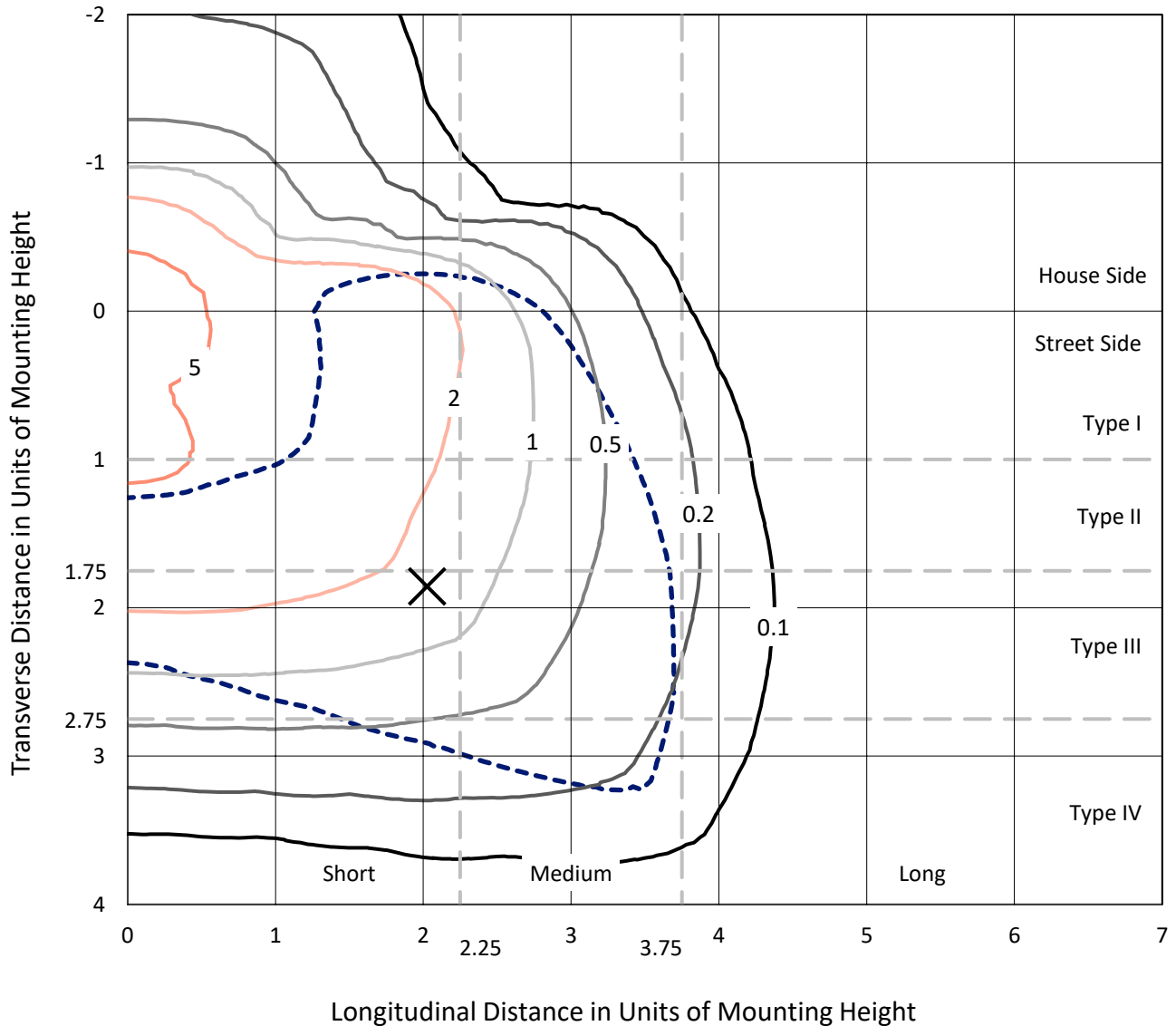
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

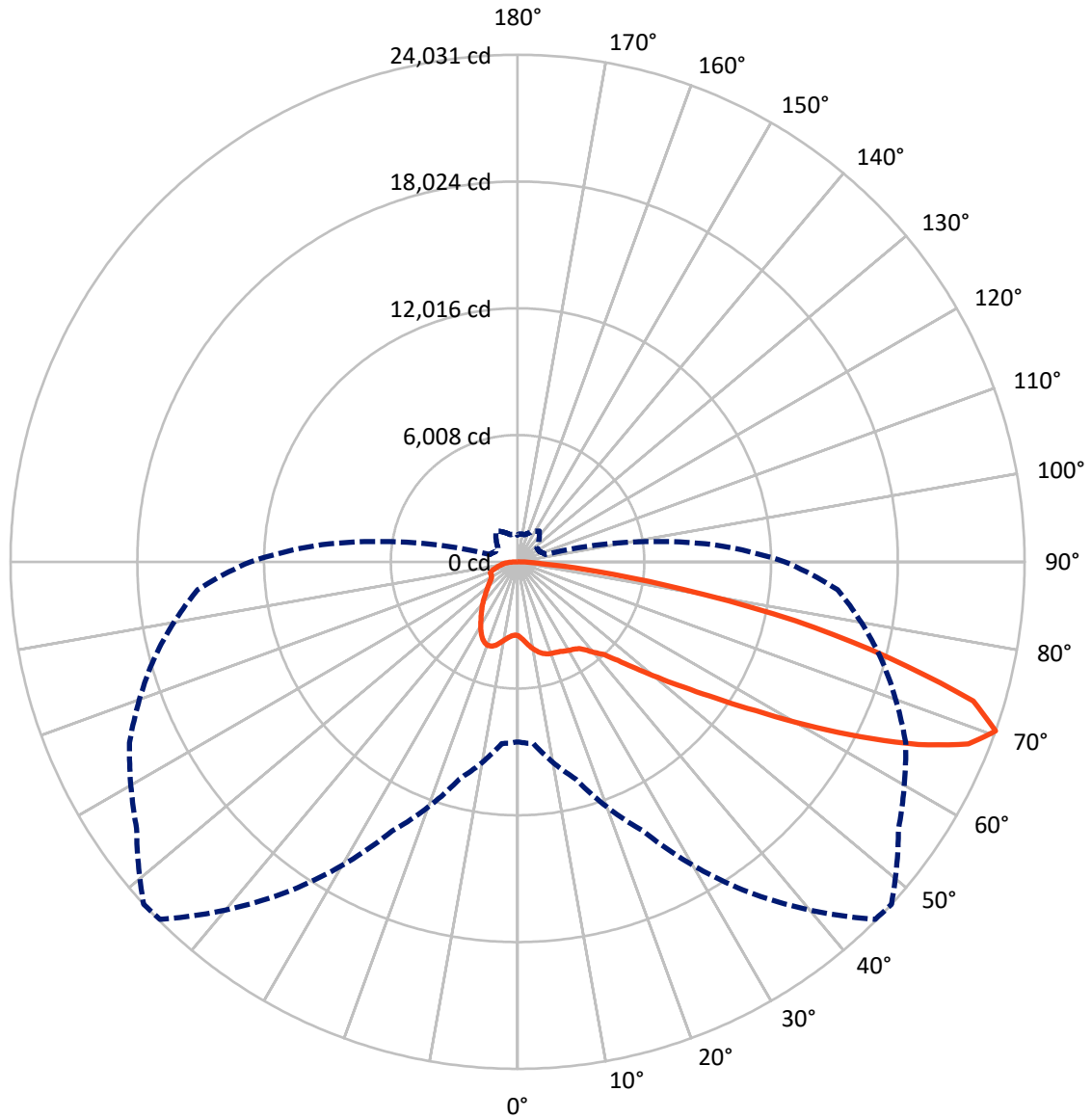
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 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	7900.1	0.0	7900.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26991.3	0.0	26991.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	34891.4	0.0	34891.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.1	1.0
10°-20°	1207.0	3.5
20°-30°	2007.3	5.8
30°-40°	2845.0	8.2
40°-50°	4199.8	12.0
50°-60°	7274.3	20.8
60°-70°	10275.2	29.4
70°-80°	5906.7	16.9
80°-90°	815.0	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°	34891.4	100.0
0°-180°	34891.4	100.0

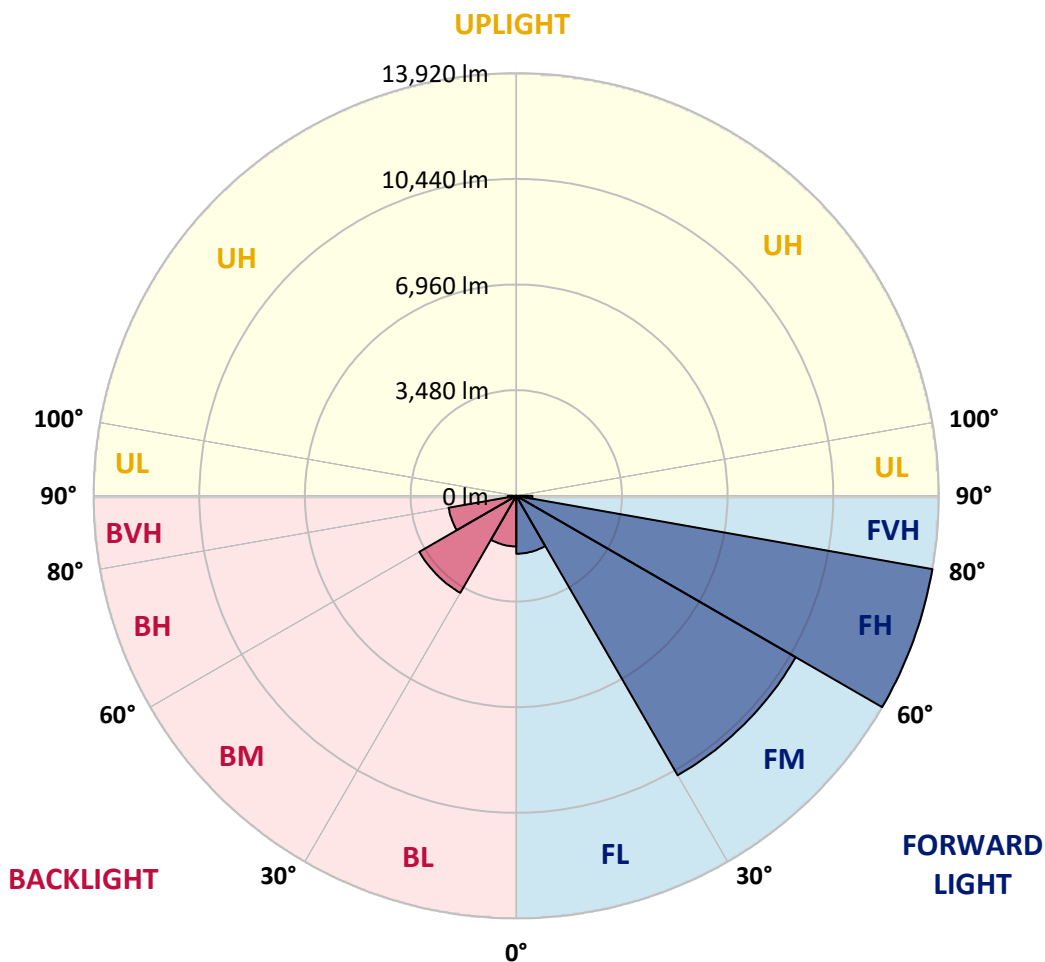


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1908.0	5.5			
FM (30°-60°)	10630.7	30.5			
FH (60°-80°)	13920.2	39.9			G5
FVH (80°-90°)	532.4	1.5			G4/750
BL (0°-30°)	1667.4	4.8	B3/2500		
BM (30°-60°)	3688.4	10.6	B3/5000		
BH (60°-80°)	2261.7	6.5	B3/2500		G3/2500
BVH (80°-90°)	282.6	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-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°	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7
2.5°	3728.6	3715.5	3713.7	3685.7	3670.7	3642.7	3631.5	3605.4	3573.7	3541.9	3512.0
5°	4021.7	4021.7	4008.6	3969.4	3907.9	3844.4	3816.4	3765.9	3676.3	3603.5	3541.9
7.5°	4322.3	4326.1	4299.9	4242.1	4154.3	4051.6	4025.4	3950.8	3823.9	3717.4	3625.9
10°	4581.9	4581.9	4546.4	4468.0	4357.8	4245.8	4219.6	4135.6	3993.7	3861.2	3741.7
12.5°	4779.7	4779.7	4733.1	4630.4	4510.9	4410.1	4380.2	4299.9	4167.3	4019.9	3868.6
15°	4908.6	4899.2	4847.0	4731.2	4615.5	4527.7	4507.2	4440.0	4318.6	4169.3	3999.3
17.5°	4914.2	4910.4	4860.1	4763.0	4662.2	4602.4	4589.3	4544.5	4449.3	4307.4	4128.1
20°	4805.9	4813.4	4779.7	4710.7	4662.2	4636.0	4630.4	4615.5	4548.2	4415.7	4236.5
22.5°	4690.2	4703.2	4671.5	4634.2	4630.4	4656.5	4660.3	4664.0	4621.0	4492.2	4328.0
25°	4662.2	4671.5	4639.7	4606.2	4626.7	4695.7	4710.7	4725.7	4692.0	4583.7	4436.2
27.5°	4804.0	4796.6	4735.0	4662.2	4675.2	4768.6	4789.1	4805.9	4789.1	4695.7	4570.7
30°	5205.5	5181.2	5057.9	4845.1	4777.9	4843.2	4863.8	4910.4	4910.4	4841.4	4716.3
32.5°	5877.7	5831.0	5605.0	5186.8	4953.4	4914.2	4934.7	5011.3	5050.5	4996.4	4860.1
35°	6693.5	6645.0	6322.0	5760.0	5274.6	5056.1	5050.5	5136.4	5240.9	5119.6	4942.2
37.5°	7513.2	7462.8	7074.4	6443.3	5743.2	5354.8	5321.3	5351.1	5395.9	5173.7	5056.1
40°	8332.9	8273.1	7933.3	7207.0	6316.4	5750.7	5662.9	5528.5	5509.8	5351.1	5276.4
42.5°	9145.0	9090.9	8919.1	8064.0	7003.5	6137.1	6002.7	5771.2	5842.2	5746.9	5681.5
45°	9964.7	9968.5	9785.5	9025.5	7832.5	6850.4	6669.3	6307.1	6475.1	6439.6	6477.0
47.5°	10691.0	10681.7	10616.4	9959.1	8861.3	7769.0	7535.6	7115.5	7403.1	7533.8	7819.4
50°	11394.9	11389.3	11393.0	11017.8	10056.2	8861.3	8603.6	8163.0	8810.8	9264.5	9776.1
52.5°	12403.2	12434.9	12209.0	12110.0	11508.8	10151.5	9867.6	9412.1	10474.4	11189.5	12188.4
55°	13415.1	13389.0	13211.6	13314.3	13028.6	11678.7	11381.8	11019.6	12326.6	13108.9	14610.0
57.5°	14010.7	14020.1	14201.1	14703.4	14905.0	13583.2	13314.3	13034.2	14408.4	14962.9	16764.7
60°	14546.6	14589.5	15110.4	16058.9	16606.0	15922.7	15683.6	15411.1	16318.4	16538.8	18635.6
62.5°	14714.6	14847.2	15756.5	17175.4	18264.0	18562.7	18265.8	17664.6	18137.0	18051.1	19903.3
65°	13876.2	14057.4	15687.3	17593.6	19744.6	21068.3	20879.8	19763.2	19686.7	19169.5	20110.5
67.5°	11669.4	11850.4	13943.5	16716.1	20357.0	23237.9	23049.4	21294.3	20627.7	19274.0	18542.2
70°	8538.3	8652.1	10653.7	14074.2	19126.5	23966.1	24031.4	22041.1	20291.6	17853.2	15224.3
72.5°	4919.8	5171.9	6574.1	9901.3	15625.8	22125.1	22578.8	20487.7	18166.9	14893.9	10644.4
75°	2115.5	2121.0	3039.6	5461.3	10582.7	17784.1	18222.9	16983.2	14266.5	10298.9	5683.5
77.5°	1006.3	1025.0	1336.9	2438.4	5825.4	12287.3	13471.1	11998.0	9124.5	4947.8	2147.2
80°	653.5	666.6	817.8	1209.9	2856.6	7124.9	7950.1	6921.3	4025.4	1768.1	926.1
82.5°	395.9	399.6	547.1	739.4	1572.1	3226.3	3803.3	3004.1	1717.7	1058.7	545.2
85°	240.9	242.7	332.4	457.4	954.1	1114.7	1144.5	1135.2	1008.3	692.7	291.2
87.5°	115.7	119.5	171.7	216.6	375.3	345.4	326.7	379.0	476.1	373.4	125.1
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°	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7	3502.7
2.5°	3499.0	3493.3	3480.3	3474.7	3471.0	3472.8	3471.0	3471.0	3472.8	3472.8	3472.8
5°	3515.7	3506.4	3485.9	3485.9	3497.0	3523.2	3547.5	3566.2	3586.7	3584.8	3584.8
7.5°	3588.5	3571.7	3547.5	3555.0	3583.0	3624.0	3667.0	3708.1	3749.1	3752.9	3751.0
10°	3695.0	3678.2	3652.0	3661.4	3706.2	3767.8	3821.9	3881.7	3926.5	3939.6	3935.9
12.5°	3816.4	3782.7	3760.4	3786.5	3857.4	3939.6	3991.9	4036.6	4068.4	4087.1	4079.6
15°	3939.6	3907.9	3881.7	3935.9	4021.7	4098.3	4124.4	4131.9	4137.5	4156.1	4152.4
17.5°	4059.1	4016.1	4006.8	4077.8	4159.9	4193.5	4178.6	4146.8	4122.6	4137.5	4135.6
20°	4165.5	4131.9	4128.1	4199.1	4230.8	4199.1	4135.6	4079.6	4036.6	4040.4	4038.6
22.5°	4266.3	4240.2	4243.9	4273.8	4223.4	4115.1	4010.6	3933.9	3887.3	3896.6	3902.2
25°	4378.3	4352.2	4361.5	4313.0	4146.8	3958.3	3807.0	3741.7	3723.0	3741.7	3754.7
27.5°	4524.0	4507.2	4501.5	4314.8	4010.6	3726.7	3555.0	3530.7	3547.5	3588.5	3609.1
30°	4680.8	4680.8	4651.0	4283.1	3823.9	3448.5	3299.2	3302.9	3360.8	3418.7	3439.2
32.5°	4832.0	4863.8	4770.4	4197.3	3583.0	3177.8	3063.9	3067.6	3118.1	3189.0	3207.7
35°	4957.1	5048.6	4873.1	4040.4	3299.2	2950.0	2864.1	2813.7	2815.6	2869.7	2884.6
37.5°	5128.9	5298.8	4932.9	3807.0	2996.7	2755.9	2658.7	2571.0	2513.1	2490.7	2490.7
40°	5427.6	5677.8	4947.8	3461.6	2711.0	2571.0	2432.8	2328.3	2216.3	2115.5	2096.8
42.5°	5933.7	6249.2	4917.9	3063.9	2453.4	2367.5	2233.0	2104.2	1949.3	1807.4	1796.1
45°	6829.8	6992.3	4837.7	2651.3	2223.7	2171.5	2040.8	1900.7	1736.4	1609.4	1600.1
47.5°	8265.7	8036.0	4731.2	2285.3	2014.6	1999.6	1898.8	1736.4	1572.1	1484.4	1475.0
50°	10362.4	9679.1	4716.3	2020.2	1846.6	1854.1	1771.9	1622.5	1478.7	1405.9	1394.7
52.5°	12886.7	11663.7	4815.2	1833.5	1699.1	1727.1	1686.0	1547.9	1420.9	1359.2	1348.0
55°	15336.4	13448.7	4875.0	1687.9	1560.9	1613.2	1618.8	1503.0	1387.2	1325.7	1318.2
57.5°	17324.9	14793.0	4609.9	1555.3	1441.4	1521.7	1562.7	1476.9	1370.4	1323.7	1316.3
60°	18708.3	15427.8	3855.6	1437.7	1353.7	1448.9	1542.2	1478.7	1411.5	1417.2	1420.9
62.5°	19149.0	15145.9	2892.1	1349.9	1293.9	1424.6	1575.9	1555.3	1486.2	1529.2	1536.6
65°	18418.9	13980.9	2096.8	1280.8	1241.7	1441.4	1676.6	1611.3	1460.1	1491.8	1491.8
67.5°	15974.9	12044.6	1631.9	1217.3	1181.9	1473.2	1777.5	1605.7	1398.5	1435.8	1402.2
70°	12672.0	9316.9	1359.2	1146.4	1118.4	1426.5	1786.8	1547.9	1325.7	1333.1	1269.7
72.5°	8409.4	6125.9	1168.8	1079.2	1021.3	1282.7	1710.3	1473.2	1254.7	1211.7	1148.3
75°	4120.6	3054.6	1019.5	995.2	894.3	1116.5	1605.7	1402.2	1178.2	1111.0	1075.5
77.5°	1596.4	1299.5	870.1	888.8	778.6	984.0	1467.5	1301.4	1077.3	985.8	957.8
80°	774.8	737.5	713.3	741.3	640.4	838.3	1340.6	1213.6	984.0	883.1	842.1
82.5°	481.7	455.6	547.1	576.9	492.9	765.5	1271.5	1139.0	866.3	731.9	698.3
85°	244.6	261.4	365.9	393.9	352.9	608.7	1047.5	855.1	625.5	519.1	522.8
87.5°	93.4	125.1	192.3	207.2	188.6	321.2	576.9	498.5	401.4	272.6	252.0
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)