

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: P652532

Luminaire Tested: **GALN-SA7B-840-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P652532
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-SA7B-840-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33355.7 lumens
Efficiency: N/A
Efficacy: 116.6 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

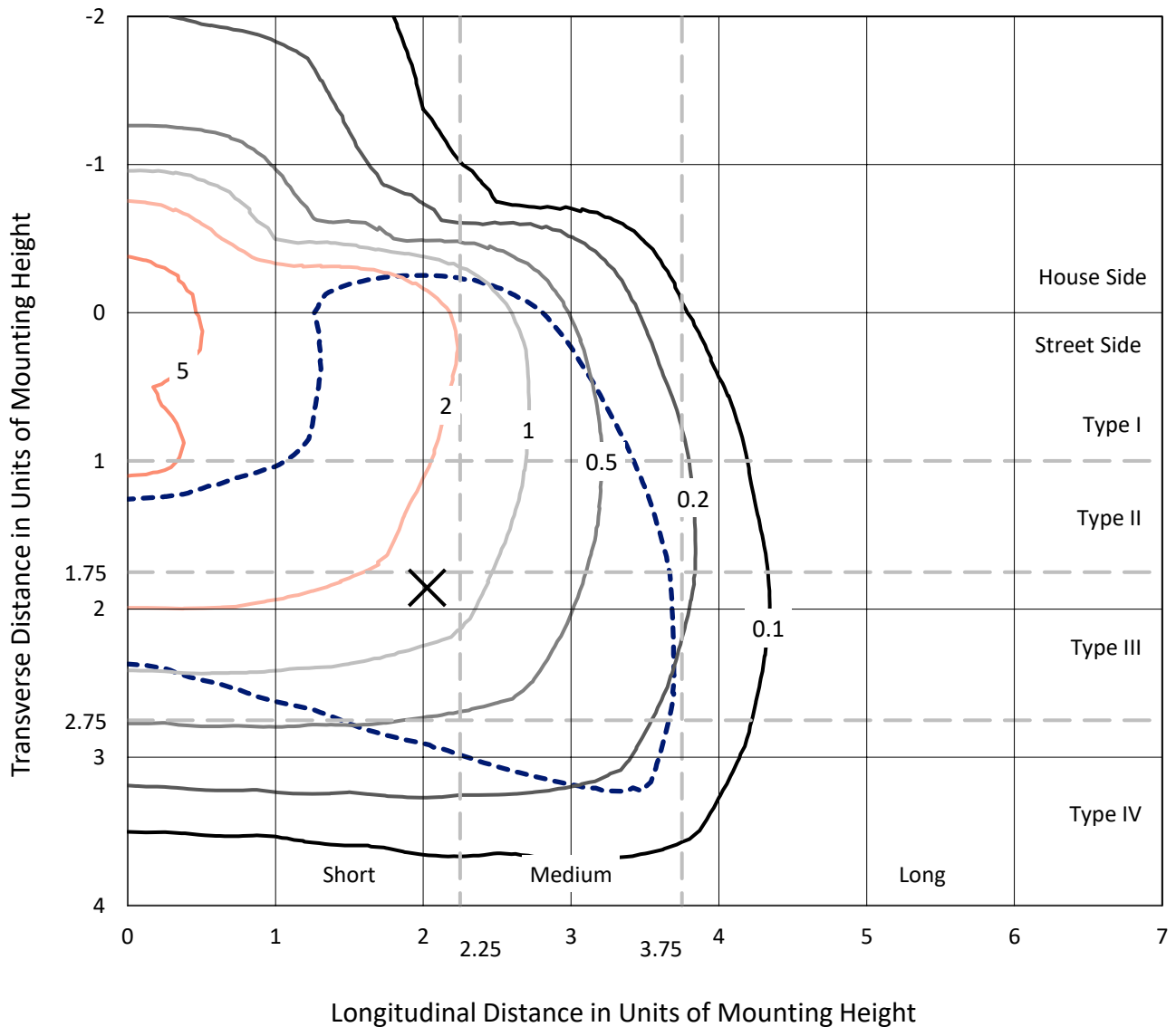
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

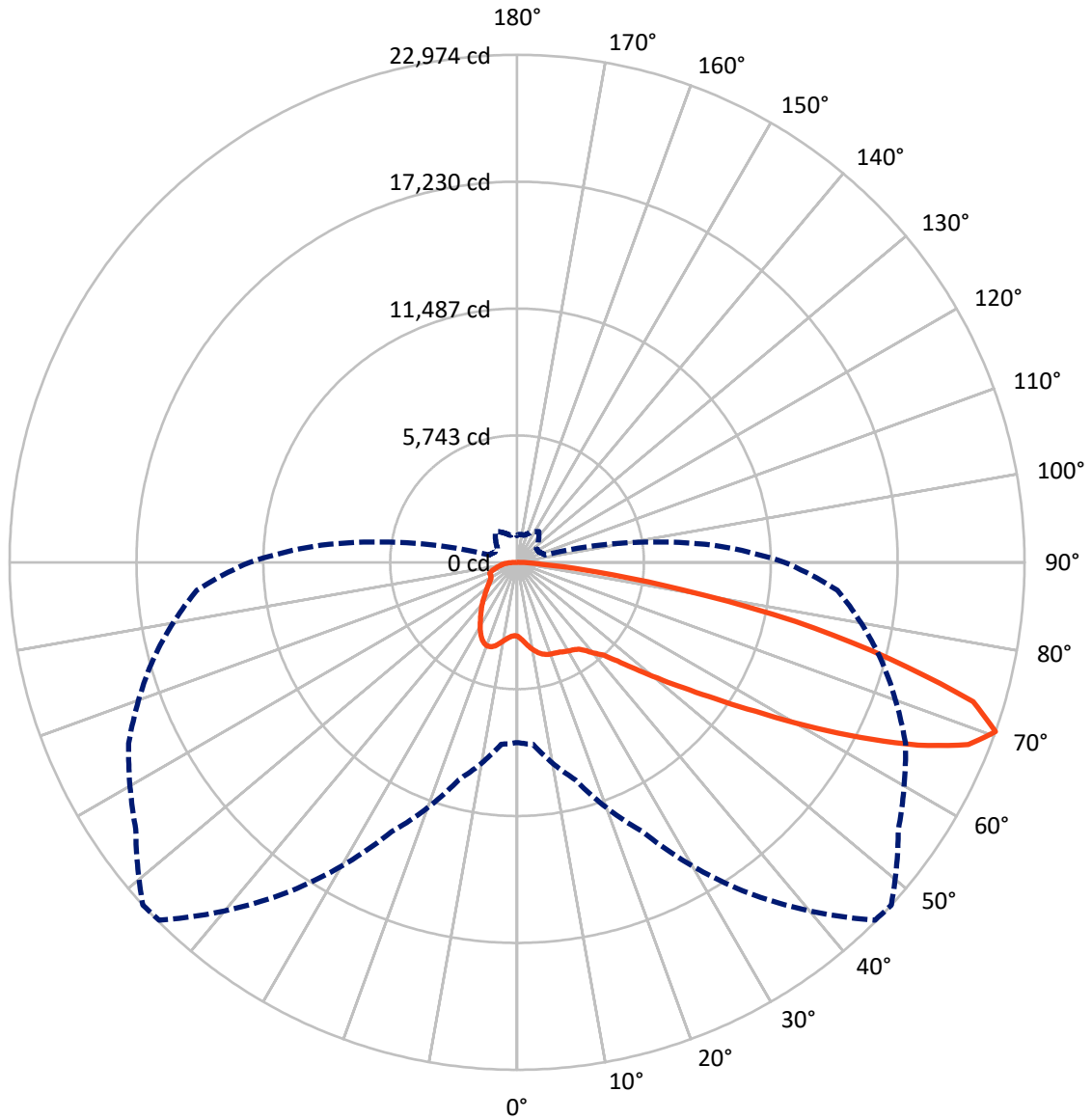
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 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	7552.4	0.0	7552.4
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	25803.4	0.0	25803.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	33355.7	0.0	33355.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	345.2	1.0
10°-20°	1153.9	3.5
20°-30°	1918.9	5.8
30°-40°	2719.8	8.2
40°-50°	4015.0	12.0
50°-60°	6954.1	20.8
60°-70°	9822.9	29.4
70°-80°	5646.8	16.9
80°-90°	779.1	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°	33355.7	100.0
0°-180°	33355.7	100.0

Coefficient of Utilization

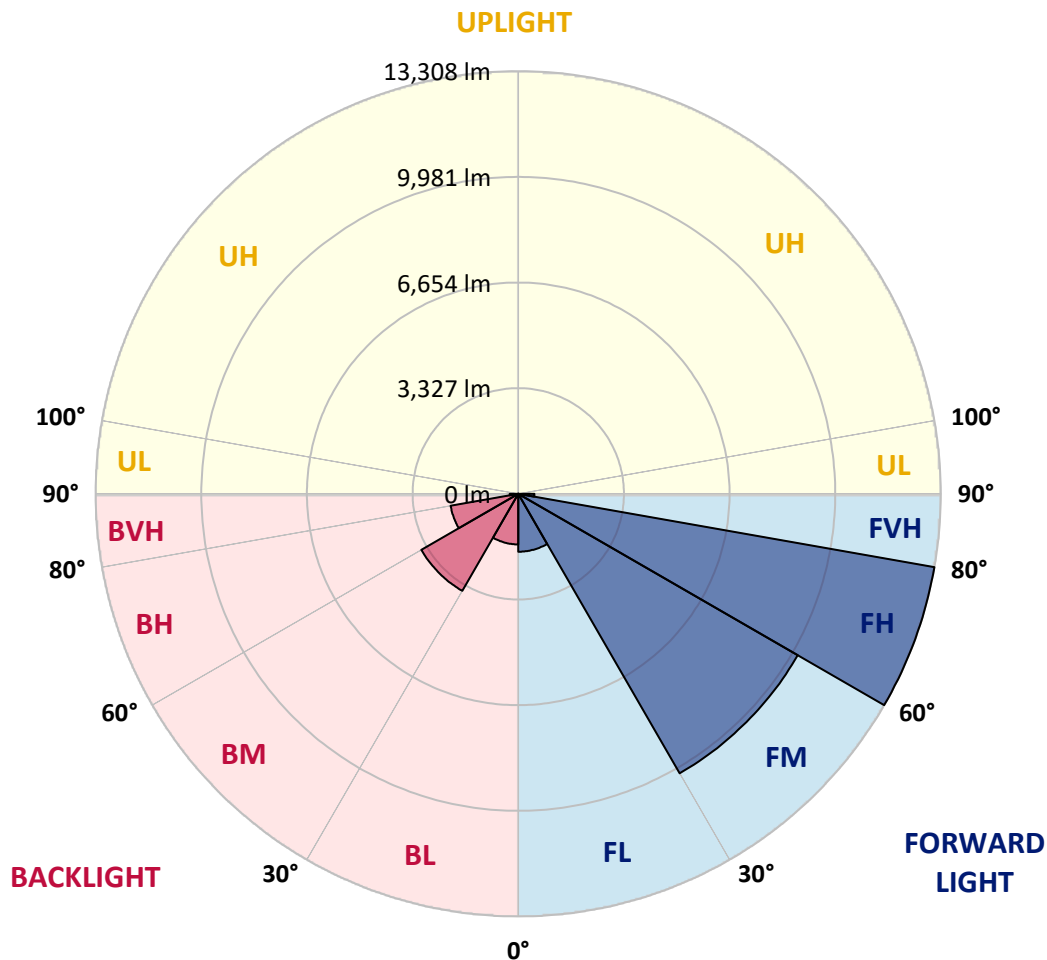


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1824.0	5.5			
FM (30°-60°)	10162.9	30.5			
FH (60°-80°)	13307.5	39.9			G5
FVH (80°-90°)	508.9	1.5			G4/750
BL (0°-30°)	1594.0	4.8	B3/2500		
BM (30°-60°)	3526.1	10.6	B3/5000		
BH (60°-80°)	2162.2	6.5	B3/2500		G3/2500
BVH (80°-90°)	270.2	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°	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5
2.5°	3564.5	3552.0	3550.2	3523.5	3509.2	3482.4	3471.6	3446.7	3416.3	3386.0	3357.4
5°	3844.7	3844.7	3832.3	3794.8	3735.8	3675.2	3648.3	3600.2	3514.5	3444.9	3386.0
7.5°	4132.1	4135.7	4110.6	4055.4	3971.5	3873.3	3848.3	3776.9	3655.5	3553.8	3466.3
10°	4380.2	4380.2	4346.3	4271.4	4166.0	4058.9	4033.9	3953.6	3818.0	3691.2	3577.0
12.5°	4569.4	4569.4	4524.7	4426.6	4312.4	4216.0	4187.4	4110.6	3984.0	3842.9	3698.4
15°	4692.5	4683.6	4633.7	4523.0	4412.3	4328.5	4308.8	4244.5	4128.6	3985.8	3823.3
17.5°	4697.9	4694.4	4646.2	4553.3	4457.0	4399.9	4387.3	4344.5	4253.4	4117.8	3946.5
20°	4594.4	4601.5	4569.4	4503.4	4457.0	4432.0	4426.6	4412.3	4348.1	4221.3	4050.0
22.5°	4483.7	4496.2	4465.9	4430.2	4426.6	4451.6	4455.2	4458.7	4417.7	4294.5	4137.5
25°	4457.0	4465.9	4435.5	4403.4	4423.1	4489.1	4503.4	4517.6	4485.5	4381.9	4241.0
27.5°	4592.6	4585.5	4526.6	4457.0	4469.4	4558.7	4578.3	4594.4	4578.3	4489.1	4369.5
30°	4976.4	4953.2	4835.3	4631.9	4567.6	4630.1	4649.7	4694.4	4694.4	4628.3	4508.7
32.5°	5619.0	5574.3	5358.3	4958.5	4735.4	4697.9	4717.6	4790.8	4828.2	4776.5	4646.2
35°	6398.9	6352.6	6043.8	5506.4	5042.4	4833.6	4828.2	4910.3	5010.3	4894.3	4724.7
37.5°	7182.6	7134.4	6763.1	6159.7	5490.4	5119.2	5087.0	5115.6	5158.4	4946.0	4833.6
40°	7966.1	7909.0	7584.1	6889.8	6038.4	5497.5	5413.7	5285.2	5267.3	5115.6	5044.1
42.5°	8742.5	8690.8	8526.6	7709.1	6695.3	5867.1	5738.6	5517.2	5585.0	5494.0	5431.5
45°	9526.1	9529.7	9354.8	8628.3	7487.8	6548.9	6375.7	6029.5	6190.1	6156.2	6191.9
47.5°	10220.5	10211.5	10149.1	9520.8	8471.2	7427.0	7203.9	6802.3	7077.2	7202.2	7475.2
50°	10893.4	10888.0	10891.6	10532.9	9613.6	8471.2	8224.9	7803.7	8423.0	8856.8	9345.9
52.5°	11857.3	11887.6	11671.7	11577.0	11002.3	9704.6	9433.3	8997.8	10013.5	10697.0	11652.0
55°	12824.7	12799.7	12630.1	12728.3	12455.2	11164.7	10880.9	10534.6	11784.1	12531.9	13967.0
57.5°	13394.1	13403.0	13576.1	14056.3	14249.1	12985.3	12728.3	12460.5	13774.2	14304.4	16026.9
60°	13906.4	13947.4	14445.4	15352.1	15875.1	15221.8	14993.3	14732.7	15600.2	15810.9	17815.3
62.5°	14067.0	14193.7	15063.0	16419.5	17460.1	17745.7	17461.9	16887.2	17338.7	17256.6	19027.3
65°	13265.5	13438.7	14996.9	16819.3	18875.6	20141.1	19960.8	18893.4	18820.2	18325.8	19225.4
67.5°	11155.8	11328.9	13329.8	15980.4	19461.0	22215.2	22034.9	20357.1	19719.9	18425.7	17726.1
70°	8162.5	8271.3	10184.8	13454.7	18284.8	22911.3	22973.8	21071.0	19398.5	17067.4	14554.3
72.5°	4703.3	4944.2	6284.7	9465.5	14938.0	21151.3	21585.1	19586.0	17367.3	14238.3	10175.8
75°	2022.4	2027.7	2905.8	5220.9	10117.0	17001.4	17420.8	16235.7	13638.6	9845.7	5433.3
77.5°	962.1	979.9	1278.0	2331.1	5568.9	11746.6	12878.2	11469.9	8722.9	4730.0	2052.6
80°	624.7	637.2	781.8	1156.6	2730.9	6811.3	7600.2	6616.7	3848.3	1690.3	885.3
82.5°	378.4	382.0	523.0	706.9	1502.9	3084.4	3635.9	2871.9	1642.1	1012.1	521.2
85°	230.3	232.0	317.7	437.3	912.1	1065.6	1094.1	1085.2	963.9	662.2	278.5
87.5°	110.7	114.2	164.2	207.1	358.8	330.2	312.3	362.3	455.1	357.0	119.6
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°	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5	3348.5
2.5°	3344.9	3339.6	3327.1	3321.8	3318.2	3319.9	3318.2	3318.2	3319.9	3319.9	3319.9
5°	3361.0	3352.1	3332.5	3332.5	3343.1	3368.1	3391.3	3409.2	3428.8	3427.1	3427.1
7.5°	3430.6	3414.5	3391.3	3398.5	3425.2	3464.5	3505.6	3544.8	3584.1	3587.7	3585.9
10°	3532.4	3516.3	3491.3	3500.2	3543.0	3602.0	3653.7	3710.8	3753.7	3766.2	3762.6
12.5°	3648.3	3616.2	3594.9	3619.8	3687.6	3766.2	3816.2	3859.0	3889.4	3907.2	3900.1
15°	3766.2	3735.8	3710.8	3762.6	3844.7	3917.9	3942.9	3950.0	3955.4	3973.2	3969.7
17.5°	3880.5	3839.3	3830.4	3898.3	3976.8	4009.0	3994.7	3964.3	3941.1	3955.4	3953.6
20°	3982.1	3950.0	3946.5	4014.3	4044.6	4014.3	3953.6	3900.1	3859.0	3862.5	3860.8
22.5°	4078.5	4053.5	4057.2	4085.7	4037.5	3933.9	3834.0	3760.9	3716.2	3725.1	3730.5
25°	4185.7	4160.7	4169.6	4123.2	3964.3	3784.0	3639.4	3577.0	3559.1	3577.0	3589.5
27.5°	4324.8	4308.8	4303.5	4124.9	3834.0	3562.7	3398.5	3375.3	3391.3	3430.6	3450.3
30°	4474.8	4474.8	4446.3	4094.6	3655.5	3296.7	3153.9	3157.5	3212.9	3268.2	3287.8
32.5°	4619.4	4649.7	4560.5	4012.5	3425.2	3037.9	2929.0	2932.7	2980.8	3048.6	3066.5
35°	4739.0	4826.4	4658.6	3862.5	3153.9	2820.2	2738.0	2689.9	2691.7	2743.4	2757.7
37.5°	4903.2	5065.6	4715.7	3639.4	2864.8	2634.5	2541.8	2457.8	2402.5	2381.1	2381.1
40°	5188.8	5428.0	4730.0	3309.3	2591.7	2457.8	2325.8	2225.8	2118.7	2022.4	2004.4
42.5°	5672.5	5974.1	4701.5	2929.0	2345.4	2263.3	2134.8	2011.6	1863.5	1727.8	1717.1
45°	6529.3	6684.5	4624.7	2534.6	2125.9	2075.8	1951.0	1817.1	1660.0	1538.6	1529.7
47.5°	7901.9	7682.3	4523.0	2184.7	1925.9	1911.7	1815.3	1660.0	1502.9	1419.0	1410.1
50°	9906.3	9253.0	4508.7	1931.3	1765.3	1772.4	1693.9	1551.1	1413.6	1344.1	1333.3
52.5°	12319.6	11150.4	4603.3	1752.8	1624.3	1651.1	1611.8	1479.7	1358.3	1299.4	1288.7
55°	14661.3	12856.8	4660.4	1613.5	1492.2	1542.1	1547.5	1436.8	1326.2	1267.3	1260.2
57.5°	16562.3	14141.9	4407.0	1486.8	1378.0	1454.7	1494.0	1411.9	1310.1	1265.5	1258.4
60°	17885.0	14748.8	3685.9	1374.4	1294.0	1385.1	1474.4	1413.6	1349.4	1354.8	1358.3
62.5°	18306.1	14479.3	2764.9	1290.5	1236.9	1361.9	1506.5	1486.8	1420.8	1461.8	1469.0
65°	17608.3	13365.5	2004.4	1224.5	1187.0	1378.0	1602.9	1540.4	1395.8	1426.2	1426.2
67.5°	15271.8	11514.6	1560.1	1163.8	1129.9	1408.3	1699.2	1535.0	1336.9	1372.6	1340.5
70°	12114.3	8906.8	1299.4	1095.9	1069.2	1363.7	1708.2	1479.7	1267.3	1274.5	1213.7
72.5°	8039.3	5856.3	1117.4	1031.7	976.3	1226.3	1635.0	1408.3	1199.4	1158.4	1097.8
75°	3939.3	2920.1	974.6	951.3	855.0	1067.4	1535.0	1340.5	1126.3	1062.0	1028.1
77.5°	1526.1	1242.3	831.7	849.7	744.3	940.7	1403.0	1244.1	1029.9	942.4	915.7
80°	740.8	705.0	681.8	708.6	612.2	801.4	1281.6	1160.2	940.7	844.3	805.0
82.5°	460.5	435.6	523.0	551.5	471.2	731.8	1215.5	1088.8	828.2	699.7	667.6
85°	233.8	249.9	349.9	376.6	337.3	581.9	1001.4	817.5	598.0	496.2	499.8
87.5°	89.2	119.6	183.8	198.1	180.3	307.0	551.5	476.6	383.7	260.6	240.9
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)