

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: P522868

Luminaire Tested: **GALN-SA8A-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522868
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-SA8A-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 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: 34425 lumens
Efficiency: N/A
Efficacy: 141.1 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

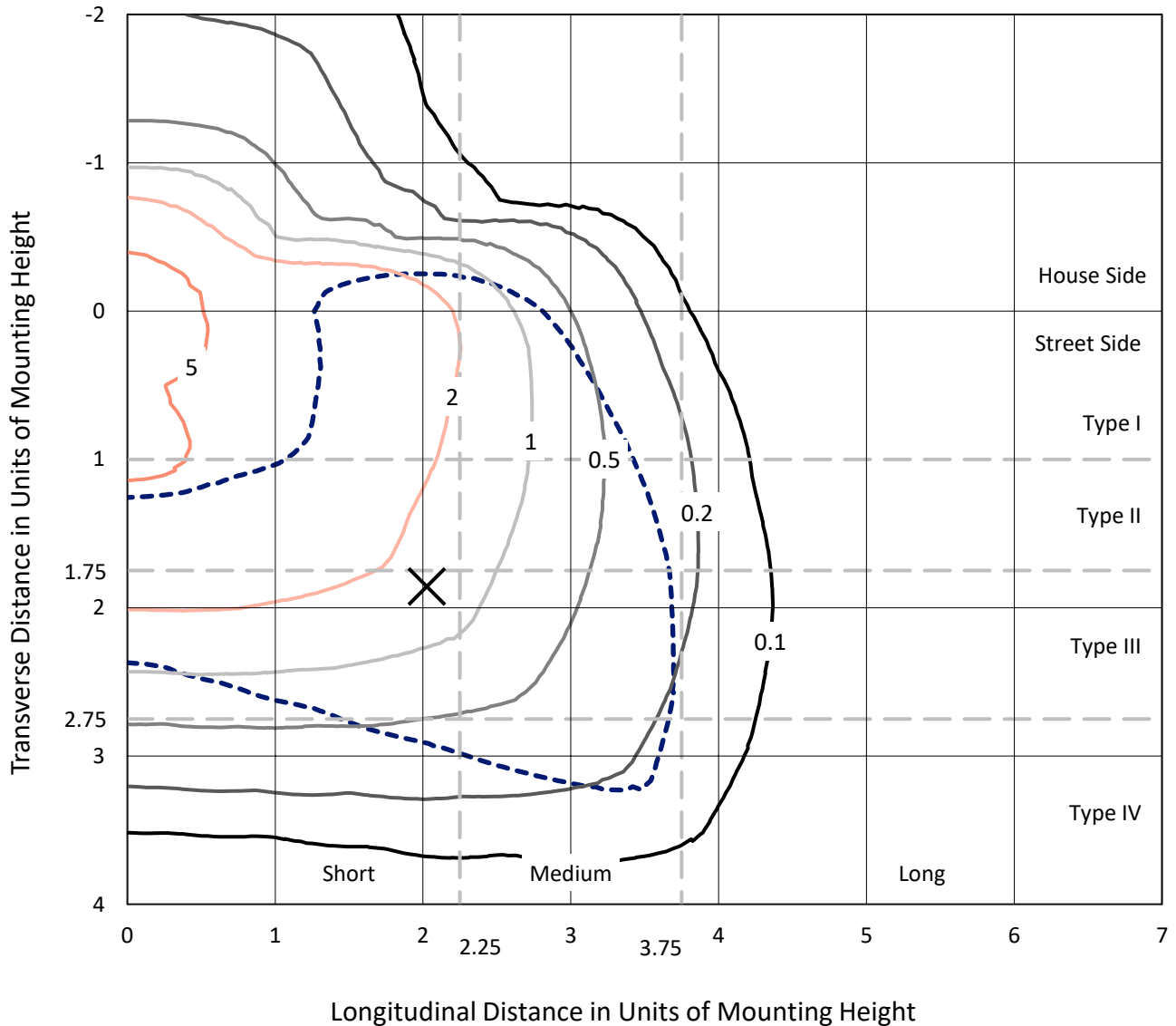
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

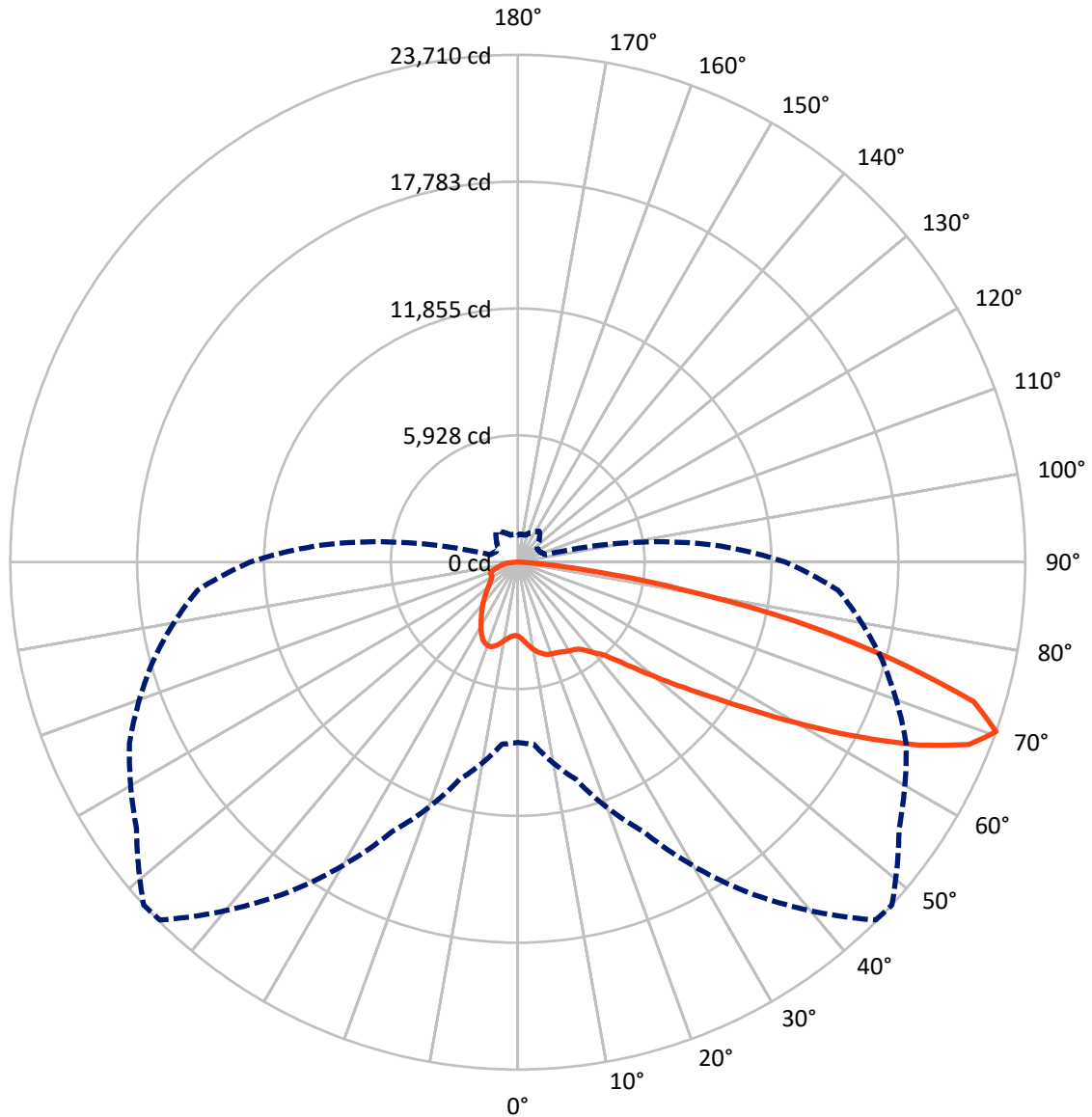
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 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	7794.5	0.0	7794.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	26630.5	0.0	26630.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	34425.0	0.0	34425.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	356.2	1.0
10°-20°	1190.9	3.5
20°-30°	1980.4	5.8
30°-40°	2807.0	8.2
40°-50°	4143.7	12.0
50°-60°	7177.1	20.8
60°-70°	10137.8	29.4
70°-80°	5827.8	16.9
80°-90°	804.1	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°	34425.0	100.0
0°-180°	34425.0	100.0

Coefficient of Utilization



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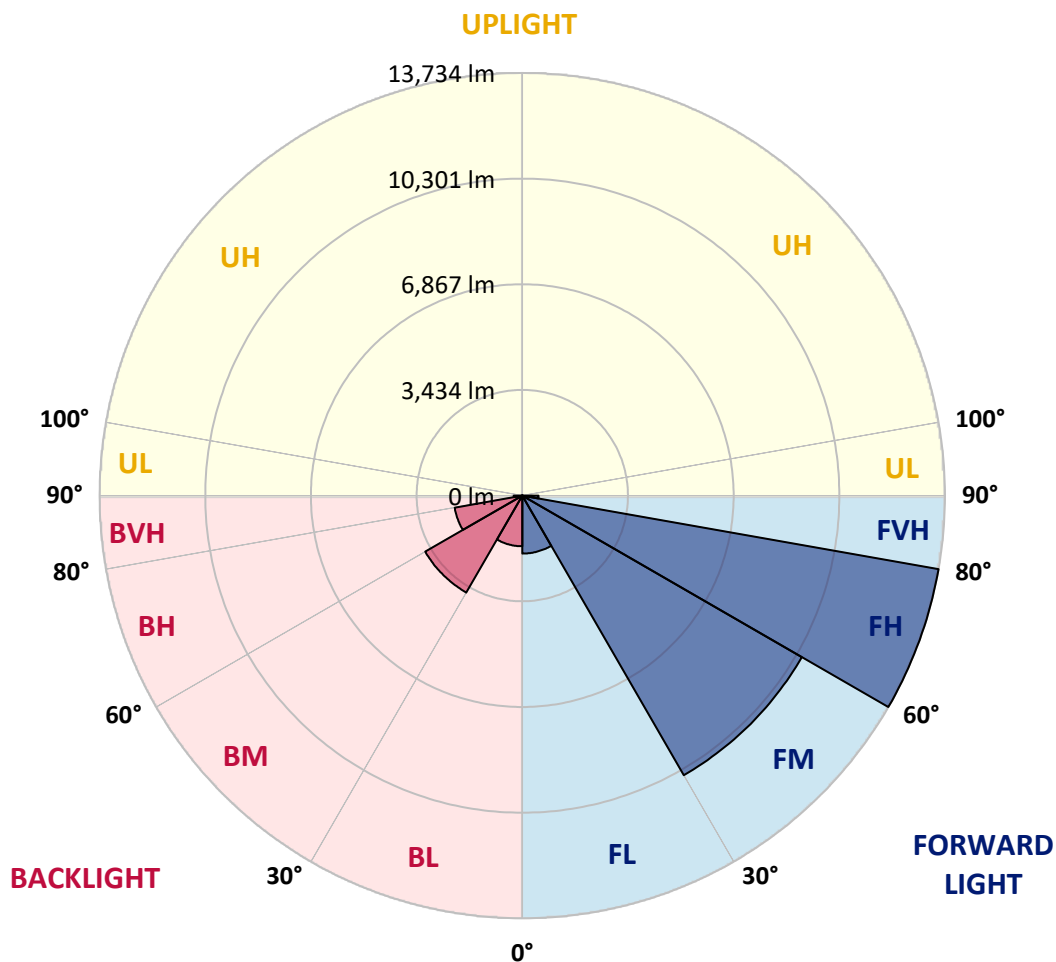
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1882.5	5.5			
FM	(30°-60°)	10488.6	30.5			
FH	(60°-80°)	13734.1	39.9			G5
FVH	(80°-90°)	525.3	1.5			G4/750
BL	(0°-30°)	1645.1	4.8	B3/2500		
BM	(30°-60°)	3639.1	10.6	B3/5000		
BH	(60°-80°)	2231.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	278.8	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°	3455.9	3455.9	3455.9	3455.9	3455.9	3455.9	3455.9	3455.9	3455.9	3455.9	3455.9
2.5°	3678.8	3665.9	3664.0	3636.4	3621.6	3594.0	3583.0	3557.2	3525.9	3494.5	3465.1
5°	3968.0	3968.0	3955.1	3916.4	3855.6	3793.0	3765.3	3715.6	3627.2	3555.3	3494.5
7.5°	4264.6	4268.2	4242.4	4185.3	4098.8	3997.4	3971.7	3898.0	3772.7	3667.7	3577.4
10°	4520.6	4520.6	4485.6	4408.2	4299.6	4189.0	4163.2	4080.3	3940.3	3809.5	3691.6
12.5°	4715.9	4715.9	4669.8	4568.5	4450.6	4351.1	4321.7	4242.4	4111.7	3966.1	3816.9
15°	4843.0	4833.8	4782.2	4668.0	4553.8	4467.2	4446.9	4380.6	4260.9	4113.5	3945.9
17.5°	4848.5	4844.8	4795.1	4699.3	4599.8	4540.9	4528.0	4483.8	4389.8	4249.8	4073.0
20°	4741.7	4749.0	4715.9	4647.7	4599.8	4574.0	4568.5	4553.8	4487.5	4356.7	4179.8
22.5°	4627.5	4640.4	4609.0	4572.2	4568.5	4594.3	4598.0	4601.7	4559.3	4432.2	4270.1
25°	4599.8	4609.0	4577.7	4544.6	4564.8	4633.0	4647.7	4662.5	4629.3	4522.5	4376.9
27.5°	4739.8	4732.5	4671.7	4599.8	4612.7	4704.8	4725.1	4741.7	4725.1	4633.0	4509.6
30°	5135.9	5111.9	4990.4	4780.4	4714.0	4778.5	4798.8	4844.8	4844.8	4776.7	4653.2
32.5°	5799.1	5753.0	5530.1	5117.5	4887.2	4848.5	4868.8	4944.3	4983.0	4929.6	4795.1
35°	6604.1	6556.2	6237.5	5683.0	5204.0	4988.5	4983.0	5067.7	5170.9	5051.1	4876.1
37.5°	7412.8	7363.0	6979.9	6357.2	5666.4	5283.3	5250.1	5279.6	5323.8	5104.6	4988.5
40°	8221.5	8162.5	7827.3	7110.7	6232.0	5673.8	5587.2	5454.6	5436.2	5279.6	5205.9
42.5°	9022.8	8969.4	8799.9	7956.2	6909.9	6055.1	5922.5	5694.1	5764.1	5670.1	5605.6
45°	9831.5	9835.2	9654.7	8904.9	7727.8	6758.8	6580.1	6222.8	6388.5	6353.5	6390.4
47.5°	10548.1	10538.9	10474.4	9826.0	8742.8	7665.1	7434.9	7020.4	7304.1	7433.0	7714.9
50°	11242.6	11237.1	11240.7	10870.5	9921.8	8742.8	8488.6	8053.8	8693.1	9140.7	9645.4
52.5°	12237.3	12268.7	12045.8	11948.1	11355.0	10015.7	9735.7	9286.2	10334.4	11039.9	12025.5
55°	13235.8	13210.0	13035.0	13136.3	12854.5	11522.6	11229.7	10872.3	12161.8	12933.7	14414.8
57.5°	13823.4	13832.6	14011.3	14506.9	14705.8	13401.6	13136.3	12860.0	14215.8	14762.9	16540.6
60°	14352.1	14394.5	14908.4	15844.3	16384.0	15709.8	15474.0	15205.0	16100.3	16317.7	18386.4
62.5°	14517.9	14648.7	15545.8	16945.9	18019.8	18314.6	18021.7	17428.5	17894.6	17809.8	19637.2
65°	13690.8	13869.5	15477.7	17358.5	19480.6	20786.7	20600.7	19499.1	19423.5	18913.3	19841.7
67.5°	11513.4	11692.1	13757.1	16492.7	20084.9	22927.3	22741.2	21009.6	20352.0	19016.4	18294.3
70°	8424.1	8536.5	10511.3	13886.1	18870.9	23645.7	23710.2	21746.5	20020.4	17614.5	15020.8
72.5°	4854.0	5102.7	6486.2	9768.9	15416.9	21829.4	22277.0	20213.8	17924.0	14694.8	10502.0
75°	2087.1	2092.7	2999.0	5388.3	10441.3	17546.4	17979.3	16756.1	14075.8	10161.2	5607.5
77.5°	992.9	1011.3	1319.0	2405.8	5747.5	12123.1	13291.0	11837.6	9002.5	4881.7	2118.5
80°	644.7	657.6	806.9	1193.7	2818.5	7029.6	7843.8	6828.8	3971.7	1744.5	913.7
82.5°	390.5	394.2	539.7	729.5	1551.1	3183.2	3752.4	2964.0	1694.8	1044.5	537.9
85°	237.6	239.5	327.9	451.3	941.3	1099.8	1129.2	1120.0	994.8	683.4	287.4
87.5°	114.2	117.9	169.5	213.7	370.3	340.8	322.4	374.0	469.7	368.4	123.4
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°	3455.9	3455.9	3455.9	3455.9	3455.9	3455.9	3455.9	3455.9	3455.9	3455.9	3455.9
2.5°	3452.2	3446.6	3433.8	3428.2	3424.5	3426.4	3424.5	3424.5	3426.4	3426.4	3426.4
5°	3468.8	3459.5	3439.3	3439.3	3450.3	3476.1	3500.1	3518.5	3538.8	3536.9	3536.9
7.5°	3540.6	3524.0	3500.1	3507.4	3535.1	3575.6	3618.0	3658.5	3699.0	3702.7	3700.9
10°	3645.6	3629.0	3603.2	3612.4	3656.6	3717.4	3770.9	3829.8	3874.0	3886.9	3883.2
12.5°	3765.3	3732.2	3710.1	3735.9	3805.9	3886.9	3938.5	3982.7	4014.0	4032.4	4025.1
15°	3886.9	3855.6	3829.8	3883.2	3968.0	4043.5	4069.3	4076.7	4082.2	4100.6	4096.9
17.5°	4004.8	3962.4	3953.2	4023.2	4104.3	4137.4	4122.7	4091.4	4067.4	4082.2	4080.3
20°	4109.8	4076.7	4073.0	4143.0	4174.3	4143.0	4080.3	4025.1	3982.7	3986.4	3984.6
22.5°	4209.3	4183.5	4187.2	4216.7	4166.9	4060.1	3956.9	3881.4	3835.3	3844.5	3850.1
25°	4319.8	4294.0	4303.2	4255.3	4091.4	3905.3	3756.1	3691.6	3673.2	3691.6	3704.5
27.5°	4463.5	4446.9	4441.4	4257.2	3956.9	3676.9	3507.4	3483.5	3500.1	3540.6	3560.9
30°	4618.2	4618.2	4588.8	4225.9	3772.7	3402.4	3255.1	3258.7	3315.9	3373.0	3393.2
32.5°	4767.5	4798.8	4706.7	4141.1	3535.1	3135.3	3023.0	3026.6	3076.4	3146.4	3164.8
35°	4890.9	4981.1	4808.0	3986.4	3255.1	2910.6	2825.8	2776.1	2777.9	2831.4	2846.1
37.5°	5060.4	5228.0	4866.9	3756.1	2956.6	2719.0	2623.2	2536.6	2479.5	2457.4	2457.4
40°	5355.1	5601.9	4881.7	3415.3	2674.8	2536.6	2400.3	2297.1	2186.6	2087.1	2068.7
42.5°	5854.3	6165.6	4852.2	3023.0	2420.6	2335.8	2203.2	2076.1	1923.2	1783.2	1772.1
45°	6738.6	6898.8	4773.0	2615.8	2194.0	2142.4	2013.5	1875.3	1713.2	1587.9	1578.7
47.5°	8155.2	7928.6	4668.0	2254.8	1987.7	1972.9	1873.5	1713.2	1551.1	1464.5	1455.3
50°	10223.9	9549.7	4653.2	1993.2	1821.9	1829.2	1748.2	1600.8	1459.0	1387.1	1376.1
52.5°	12714.5	11507.9	4750.9	1809.0	1676.3	1704.0	1663.5	1527.1	1401.9	1341.1	1330.0
55°	15131.3	13268.9	4809.8	1665.3	1540.0	1591.6	1597.1	1482.9	1368.7	1307.9	1300.6
57.5°	17093.2	14595.3	4548.2	1534.5	1422.1	1501.3	1541.9	1457.1	1352.1	1306.1	1298.7
60°	18458.2	15221.6	3804.0	1418.4	1335.6	1429.5	1521.6	1459.0	1392.7	1398.2	1401.9
62.5°	18893.0	14943.4	2853.5	1331.9	1276.6	1405.6	1554.8	1534.5	1466.3	1508.7	1516.1
65°	18172.7	13793.9	2068.7	1263.7	1225.0	1422.1	1654.2	1589.8	1440.6	1471.9	1471.9
67.5°	15761.4	11883.6	1610.0	1201.1	1166.1	1453.4	1753.7	1584.2	1379.8	1416.6	1383.4
70°	12502.6	9192.3	1341.1	1131.1	1103.4	1407.4	1762.9	1527.1	1307.9	1315.3	1252.7
72.5°	8297.0	6044.1	1153.2	1064.8	1007.7	1265.6	1687.4	1453.4	1237.9	1195.5	1132.9
75°	4065.6	3013.7	1005.8	981.9	882.4	1101.6	1584.2	1383.4	1162.4	1096.1	1061.1
77.5°	1575.0	1282.1	858.4	876.9	768.2	970.8	1447.9	1284.0	1062.9	972.7	945.0
80°	764.5	727.6	703.7	731.3	631.9	827.1	1322.7	1197.4	970.8	871.3	830.8
82.5°	475.3	449.5	539.7	569.2	486.3	755.3	1254.5	1123.7	854.8	722.1	689.0
85°	241.3	257.9	361.1	388.7	348.2	600.5	1033.4	843.7	617.1	512.1	515.8
87.5°	92.1	123.4	189.7	204.5	186.1	316.8	569.2	491.9	396.1	269.0	248.7
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)