

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: P522843

Luminaire Tested: **GALN-SA7B-750-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522843
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-750-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 5000K, 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: 39662 lumens
Efficiency: N/A
Efficacy: 138.7 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

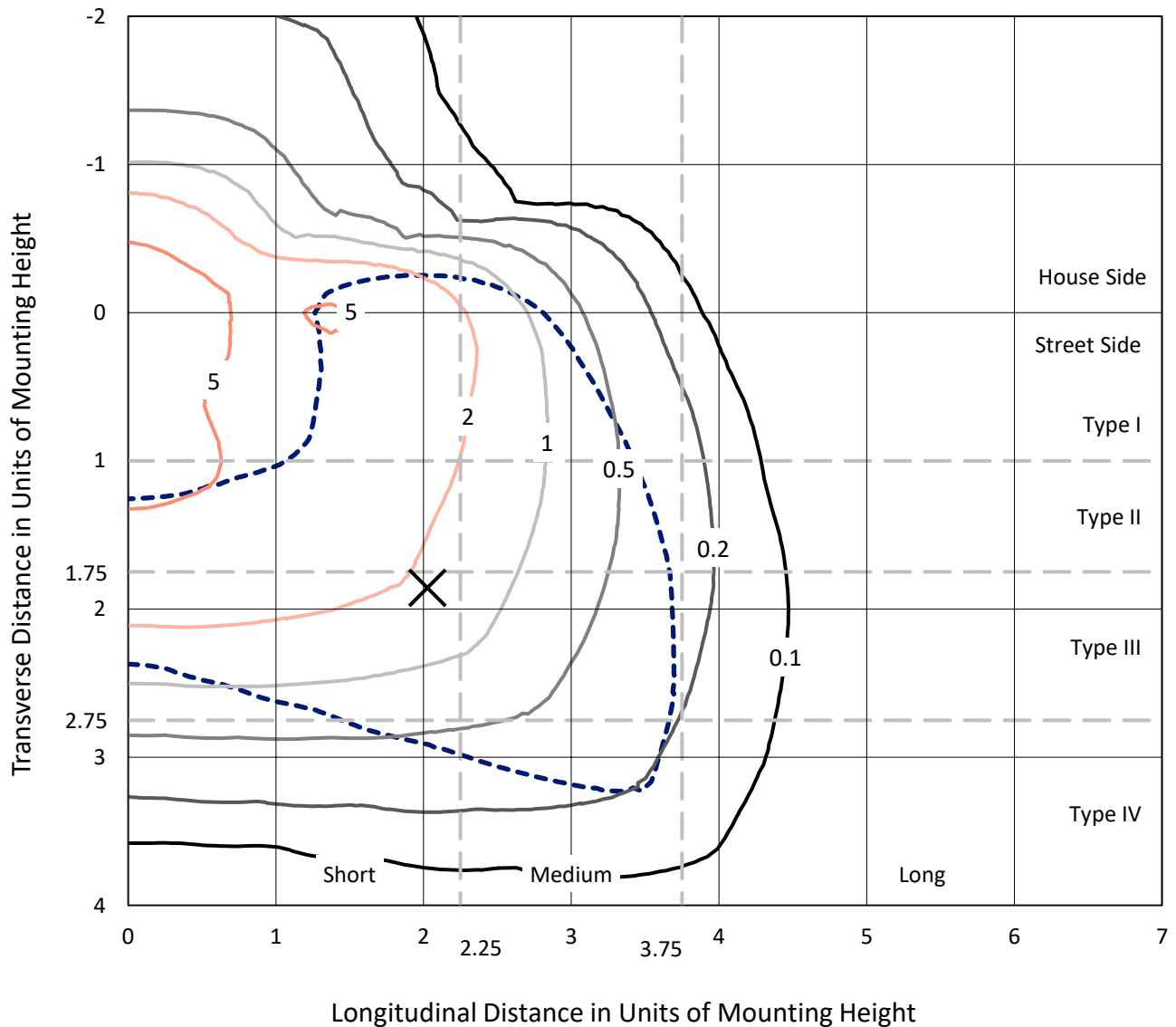
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522843
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Iso-Footcandle Lines of Horizontal Illumination

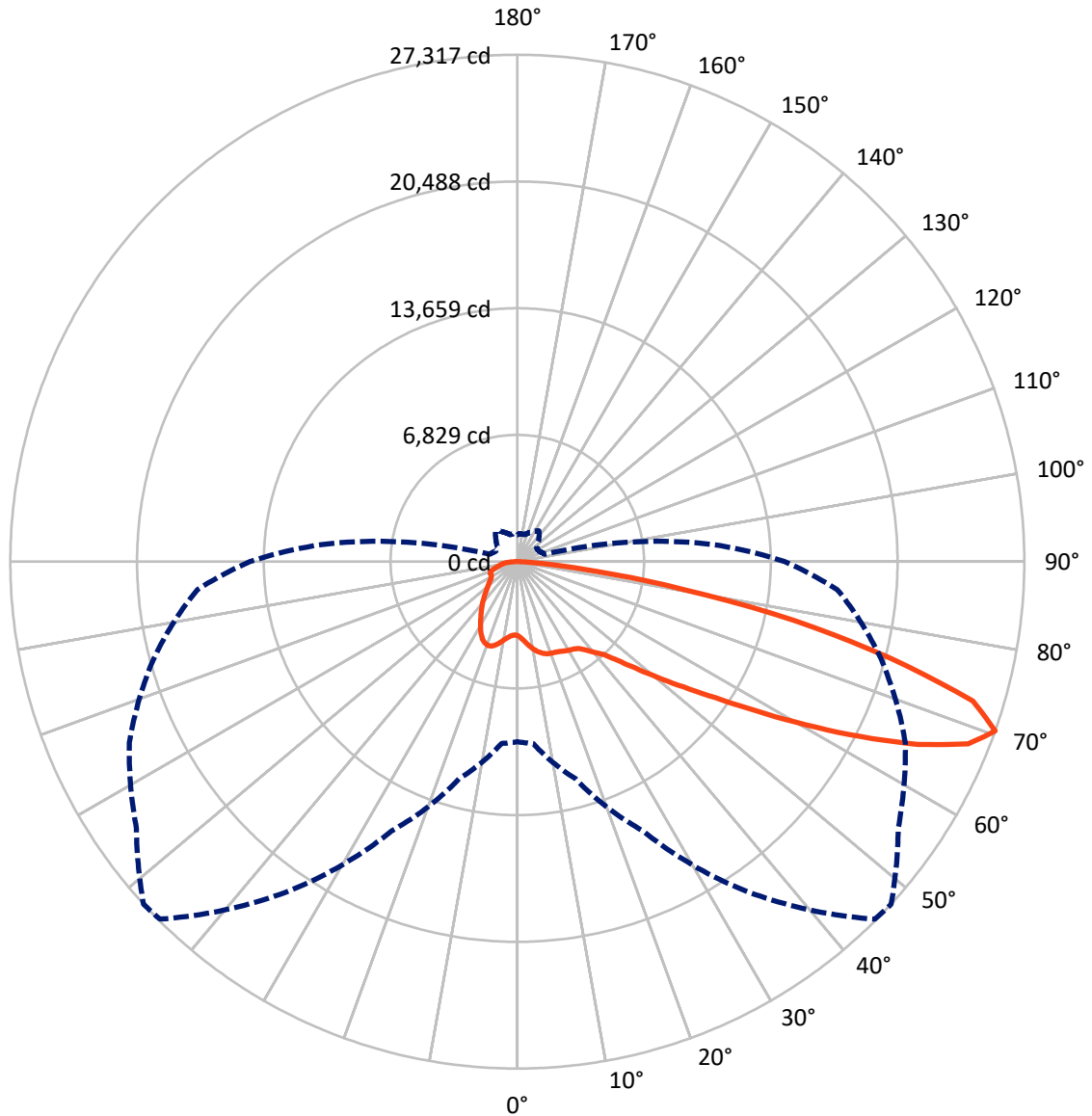
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - N/A

REPORT NUMBER: P522843
CATALOG NUMBER: GALN-SA7B-750-U-T4W

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	8980.2	0.0	8980.2
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	30681.8	0.0	30681.8
	% Fixture	77.4	0.0	77.4
Total	Lumens	39662.0	0.0	39662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.4	1.0
10°-20°	1372.1	3.5
20°-30°	2281.7	5.8
30°-40°	3234.0	8.2
40°-50°	4774.1	12.0
50°-60°	8268.9	20.8
60°-70°	11680.1	29.4
70°-80°	6714.3	16.9
80°-90°	926.4	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°	39662.0	100.0
0°-180°	39662.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522843

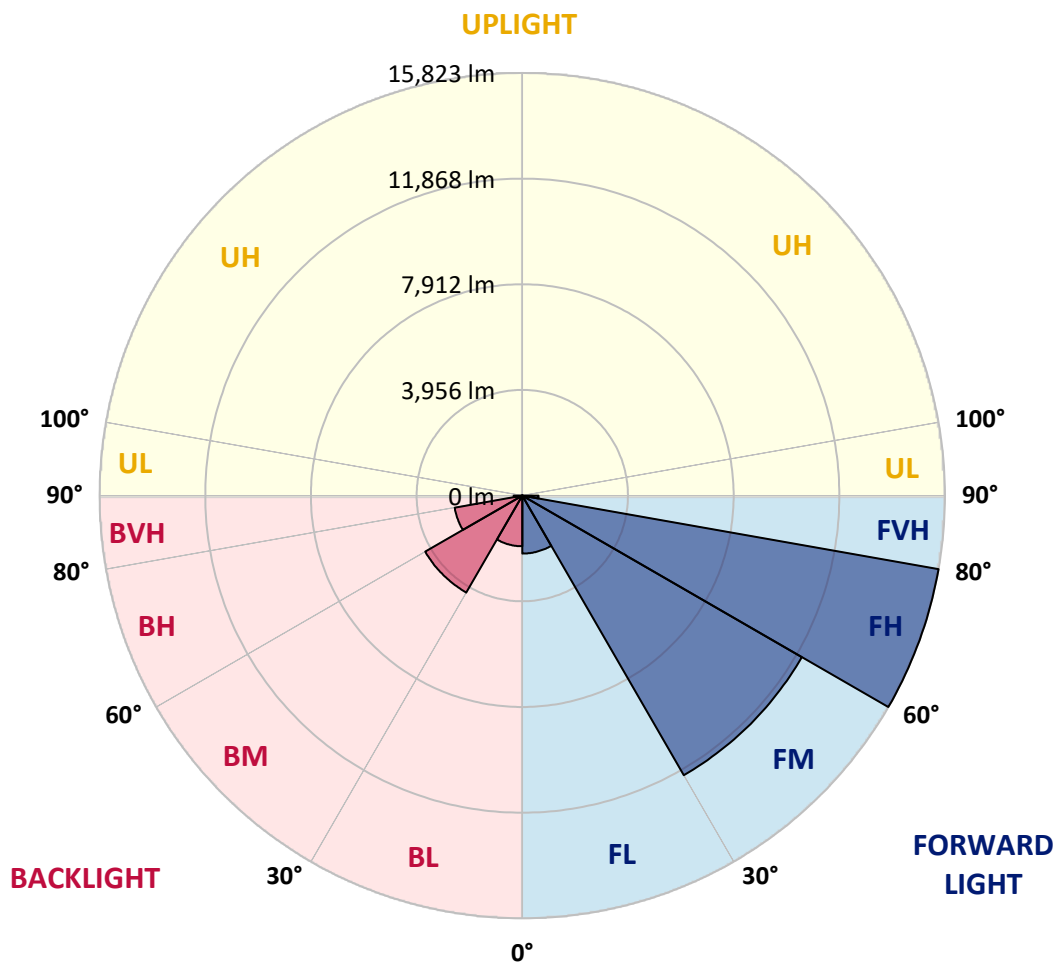
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2168.9	5.5			
FM	(30°-60°)	12084.2	30.5			
FH	(60°-80°)	15823.5	39.9			G5
FVH	(80°-90°)	605.2	1.5			G4/750
BL	(0°-30°)	1895.3	4.8	B3/2500		
BM	(30°-60°)	4192.7	10.6	B3/5000		
BH	(60°-80°)	2570.9	6.5	B4/5000		G4/5000
BVH	(80°-90°)	321.3	0.8			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°	47.5°	55°	65°	75°	85°
0°	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6
2.5°	4238.4	4223.5	4221.4	4189.6	4172.6	4140.8	4128.0	4098.3	4062.2	4026.2	3992.2
5°	4571.6	4571.6	4556.8	4512.2	4442.1	4370.0	4338.1	4280.8	4179.0	4096.2	4026.2
7.5°	4913.3	4917.6	4887.8	4822.1	4722.3	4605.6	4575.9	4491.0	4346.6	4225.7	4121.7
10°	5208.3	5208.3	5168.0	5078.9	4953.6	4826.3	4796.6	4701.1	4539.8	4389.1	4253.3
12.5°	5433.3	5433.3	5380.2	5263.5	5127.7	5013.1	4979.1	4887.8	4737.2	4569.5	4397.6
15°	5579.7	5569.1	5509.7	5378.1	5246.5	5146.8	5123.4	5047.0	4909.1	4739.3	4546.1
17.5°	5586.1	5581.9	5524.6	5414.2	5299.6	5231.7	5216.8	5165.9	5057.6	4896.3	4692.6
20°	5463.0	5471.5	5433.3	5354.8	5299.6	5269.9	5263.5	5246.5	5170.1	5019.4	4815.7
22.5°	5331.4	5346.3	5310.2	5267.8	5263.5	5293.2	5297.5	5301.7	5252.9	5106.4	4919.7
25°	5299.6	5310.2	5274.1	5235.9	5259.3	5337.8	5354.8	5371.7	5333.5	5210.4	5042.8
27.5°	5460.9	5452.4	5382.4	5299.6	5314.4	5420.6	5443.9	5463.0	5443.9	5337.8	5195.6
30°	5917.2	5889.6	5749.5	5507.6	5431.2	5505.5	5528.8	5581.9	5581.9	5503.3	5361.1
32.5°	6681.3	6628.2	6371.4	5896.0	5630.7	5586.1	5609.5	5696.5	5741.0	5679.5	5524.6
35°	7608.7	7553.6	7186.4	6547.5	5995.7	5747.4	5741.0	5838.7	5957.5	5819.6	5617.9
37.5°	8540.5	8483.2	8041.7	7324.3	6528.4	6087.0	6048.8	6082.7	6133.7	5881.1	5747.4
40°	9472.2	9404.3	9018.0	8192.4	7180.0	6536.9	6437.2	6284.4	6263.1	6082.7	5997.8
42.5°	10395.4	10333.9	10138.6	9166.6	7961.1	6976.3	6823.5	6560.3	6640.9	6532.7	6458.4
45°	11327.1	11331.4	11123.4	10259.6	8903.4	7787.0	7581.1	7169.4	7360.4	7320.1	7362.5
47.5°	12152.8	12142.1	12067.9	11320.8	10072.8	8831.2	8565.9	8088.4	8415.2	8563.8	8888.5
50°	12952.9	12946.5	12950.8	12524.2	11431.1	10072.8	9779.9	9279.1	10015.5	10531.3	11112.8
52.5°	14099.0	14135.1	13878.3	13765.8	13082.4	11539.4	11216.8	10698.9	11906.6	12719.4	13854.9
55°	15249.3	15219.6	15018.0	15134.7	14810.0	13275.5	12938.0	12526.3	14012.0	14901.2	16607.6
57.5°	15926.4	15937.0	16142.8	16713.8	16943.0	15440.3	15134.7	14816.3	16378.4	17008.8	19056.9
60°	16535.5	16584.3	17176.4	18254.6	18876.5	18099.7	17828.0	17518.1	18549.6	18800.1	21183.5
62.5°	16726.5	16877.2	17910.8	19523.8	20761.1	21100.7	20763.3	20079.9	20616.8	20519.2	22624.6
65°	15773.5	15979.4	17832.2	19999.2	22444.2	23949.0	23734.6	22465.4	22378.4	21790.5	22860.2
67.5°	13264.9	13470.8	15849.9	19001.7	23140.3	26415.2	26200.8	24205.8	23448.1	21909.3	21077.4
70°	9705.7	9835.1	12110.3	15998.5	21741.7	27242.9	27317.2	25054.7	23066.0	20294.2	17305.9
72.5°	5592.5	5879.0	7472.9	11255.0	17762.2	25150.2	25666.0	23288.9	20650.8	16930.2	12099.7
75°	2404.7	2411.0	3455.2	6208.0	12029.7	20215.7	20714.4	19305.2	16217.1	11707.1	6460.5
77.5°	1144.0	1165.2	1519.6	2771.8	6621.8	13967.4	15313.0	13638.4	10372.1	5624.3	2440.7
80°	742.8	757.7	929.6	1375.3	3247.2	8099.0	9037.1	7867.7	4575.9	2009.9	1052.7
82.5°	449.9	454.2	621.9	840.5	1787.0	3667.5	4323.3	3414.9	1952.6	1203.4	619.7
85°	273.8	275.9	377.8	520.0	1084.5	1267.1	1301.0	1290.4	1146.1	787.4	331.1
87.5°	131.6	135.8	195.3	246.2	426.6	392.6	371.4	430.8	541.2	424.5	142.2
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°	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6	3981.6
2.5°	3977.3	3971.0	3956.1	3949.8	3945.5	3947.6	3945.5	3945.5	3947.6	3947.6	3947.6
5°	3996.4	3985.8	3962.5	3962.5	3975.2	4004.9	4032.5	4053.7	4077.1	4075.0	4075.0
7.5°	4079.2	4060.1	4032.5	4041.0	4072.8	4119.5	4168.4	4215.0	4261.7	4266.0	4263.9
10°	4200.2	4181.1	4151.4	4162.0	4212.9	4283.0	4344.5	4412.4	4463.4	4478.2	4474.0
12.5°	4338.1	4299.9	4274.5	4304.2	4384.8	4478.2	4537.7	4588.6	4624.7	4645.9	4637.4
15°	4478.2	4442.1	4412.4	4474.0	4571.6	4658.6	4688.3	4696.8	4703.2	4724.4	4720.2
17.5°	4614.1	4565.2	4554.6	4635.3	4728.7	4766.9	4749.9	4713.8	4686.2	4703.2	4701.1
20°	4735.0	4696.8	4692.6	4773.2	4809.3	4773.2	4701.1	4637.4	4588.6	4592.8	4590.7
22.5°	4849.6	4819.9	4824.2	4858.1	4800.8	4677.7	4558.9	4471.9	4418.8	4429.4	4435.8
25°	4977.0	4947.3	4957.9	4902.7	4713.8	4499.4	4327.5	4253.3	4232.0	4253.3	4268.1
27.5°	5142.5	5123.4	5117.1	4904.8	4558.9	4236.3	4041.0	4013.4	4032.5	4079.2	4102.6
30°	5320.8	5320.8	5286.9	4868.7	4346.6	3920.0	3750.2	3754.5	3820.3	3886.1	3909.4
32.5°	5492.7	5528.8	5422.7	4771.1	4072.8	3612.3	3482.8	3487.1	3544.4	3625.0	3646.3
35°	5634.9	5738.9	5539.4	4592.8	3750.2	3353.4	3255.7	3198.4	3200.6	3262.1	3279.1
37.5°	5830.2	6023.3	5607.3	4327.5	3406.4	3132.6	3022.3	2922.5	2856.7	2831.3	2831.3
40°	6169.8	6454.2	5624.3	3934.9	3081.7	2922.5	2765.5	2646.6	2519.3	2404.7	2383.4
42.5°	6744.9	7103.6	5590.4	3482.8	2788.8	2691.2	2538.4	2391.9	2215.8	2054.5	2041.7
45°	7763.7	7948.3	5499.1	3013.8	2527.8	2468.3	2319.8	2160.6	1973.8	1829.5	1818.9
47.5°	9395.8	9134.7	5378.1	2597.8	2290.0	2273.1	2158.5	1973.8	1787.0	1687.3	1676.7
50°	11779.2	11002.4	5361.1	2296.4	2099.0	2107.5	2014.1	1844.3	1680.9	1598.2	1585.4
52.5°	14648.7	13258.5	5473.6	2084.2	1931.4	1963.2	1916.5	1759.5	1615.1	1545.1	1532.4
55°	17433.2	15287.5	5541.5	1918.6	1774.3	1833.7	1840.1	1708.5	1576.9	1506.9	1498.4
57.5°	19693.6	16815.6	5240.2	1767.9	1638.5	1729.7	1776.4	1678.8	1557.8	1504.8	1496.3
60°	21266.3	17537.2	4382.7	1634.2	1538.7	1647.0	1753.1	1680.9	1604.5	1610.9	1615.1
62.5°	21767.1	17216.8	3287.6	1534.5	1470.8	1619.4	1791.3	1767.9	1689.4	1738.2	1746.7
65°	20937.3	15892.4	2383.4	1456.0	1411.4	1638.5	1905.9	1831.6	1659.7	1695.8	1695.8
67.5°	18159.1	13691.5	1855.0	1383.8	1343.5	1674.6	2020.5	1825.2	1589.7	1632.1	1593.9
70°	14404.6	10590.7	1545.1	1303.1	1271.3	1621.5	2031.1	1759.5	1506.9	1515.4	1443.2
72.5°	9559.2	6963.5	1328.6	1226.7	1160.9	1458.1	1944.1	1674.6	1426.2	1377.4	1305.3
75°	4684.1	3472.2	1158.8	1131.2	1016.6	1269.2	1825.2	1593.9	1339.2	1262.8	1222.5
77.5°	1814.6	1477.2	989.0	1010.3	885.0	1118.5	1668.2	1479.3	1224.6	1120.6	1088.8
80°	880.8	838.3	810.7	842.6	728.0	952.9	1523.9	1379.5	1118.5	1003.9	957.2
82.5°	547.6	517.9	621.9	655.8	560.3	870.2	1445.3	1294.7	984.8	832.0	793.8
85°	278.0	297.1	416.0	447.8	401.1	691.9	1190.7	972.1	711.0	590.0	594.3
87.5°	106.1	142.2	218.6	235.6	214.4	365.0	655.8	566.7	456.3	309.9	286.5
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)