

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: P522841

Luminaire Tested: **GALN-SA7B-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522841
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-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 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: 36947 lumens
Efficiency: N/A
Efficacy: 129.2 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

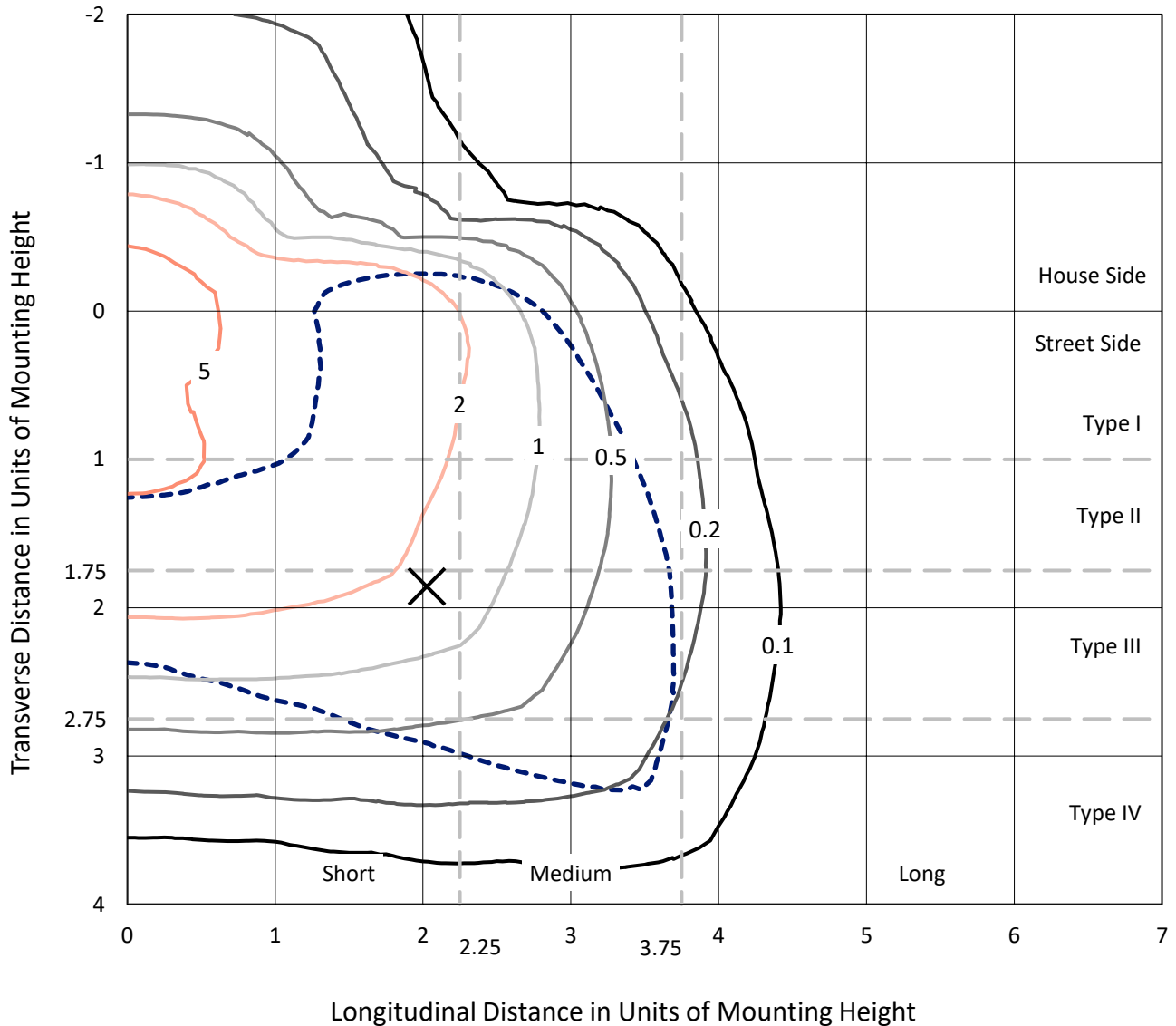
Input Watts (W): 286
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

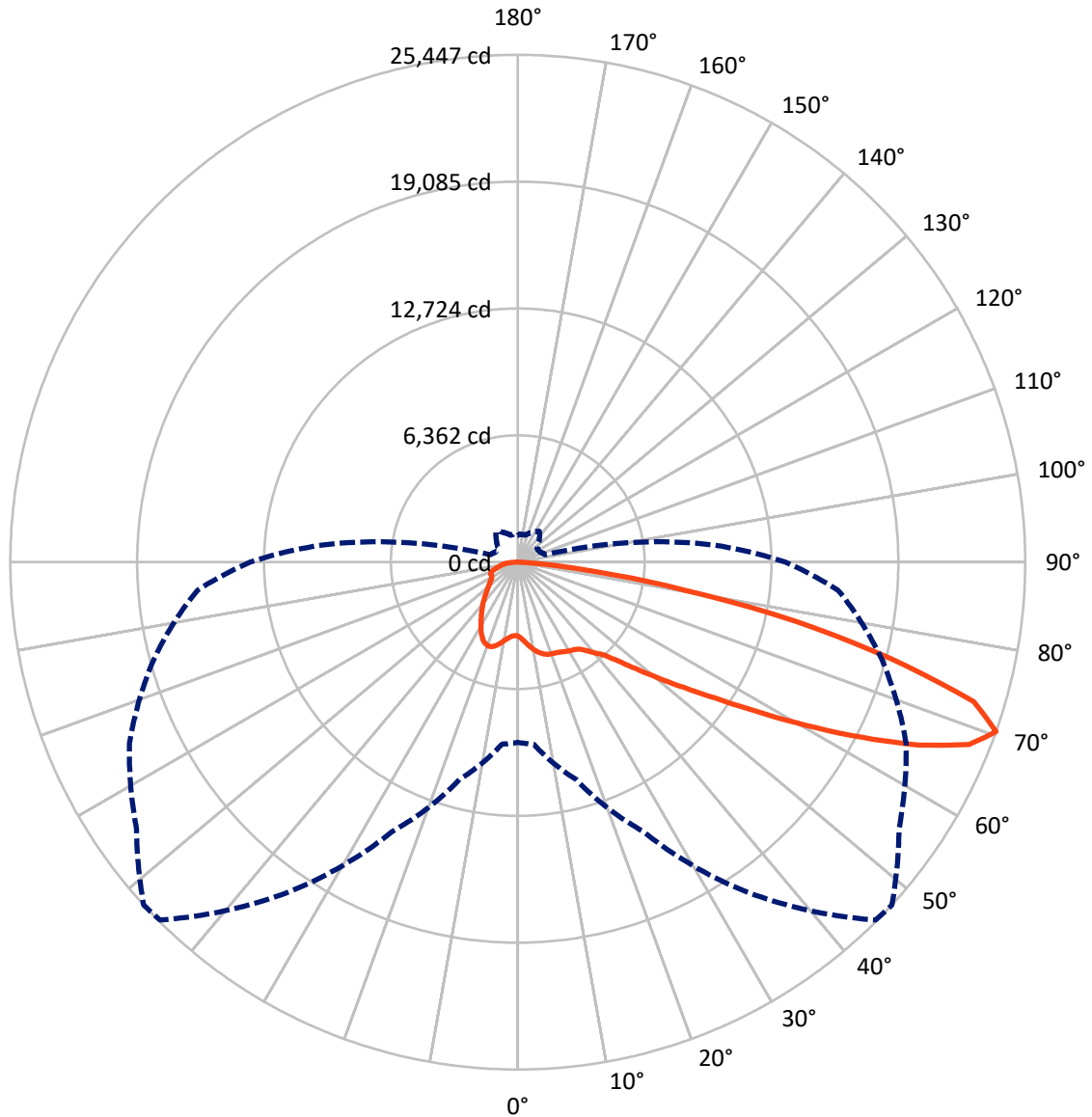
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.5 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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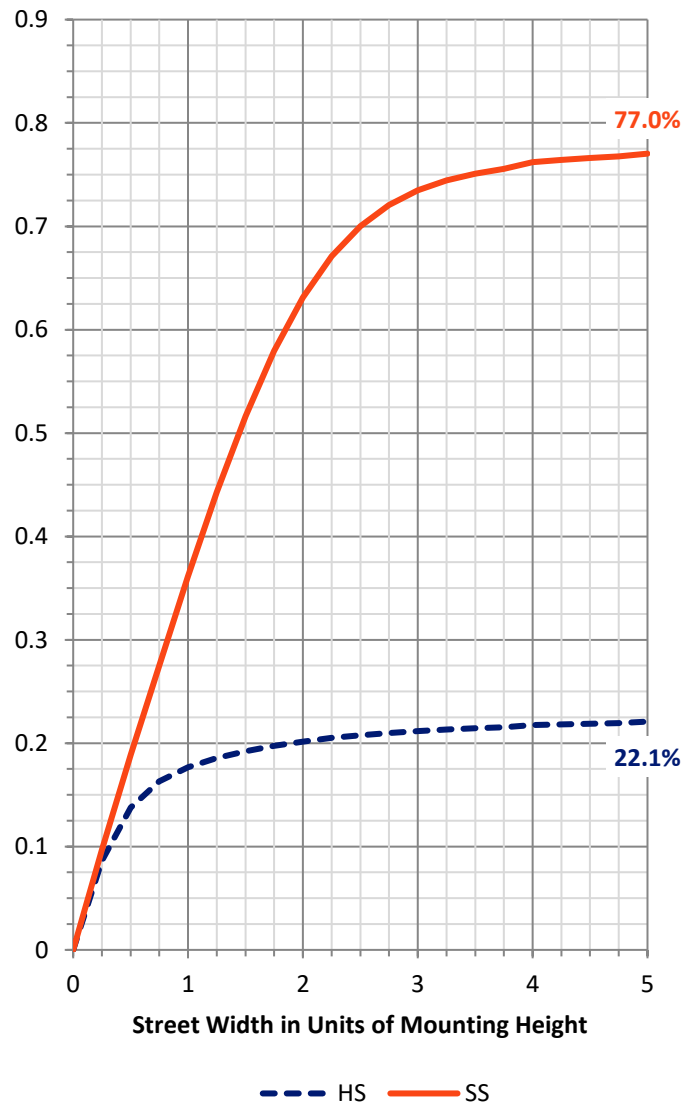
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8365.5	0.0	8365.5
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	28581.5	0.0	28581.5
	% Fixture	77.4	0.0	77.4
Total	Lumens	36947.0	0.0	36947.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.3	1.0
10°-20°	1278.1	3.5
20°-30°	2125.5	5.8
30°-40°	3012.6	8.2
40°-50°	4447.3	12.0
50°-60°	7702.9	20.8
60°-70°	10880.5	29.4
70°-80°	6254.7	16.9
80°-90°	863.0	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°	36947.0	100.0
0°-180°	36947.0	100.0



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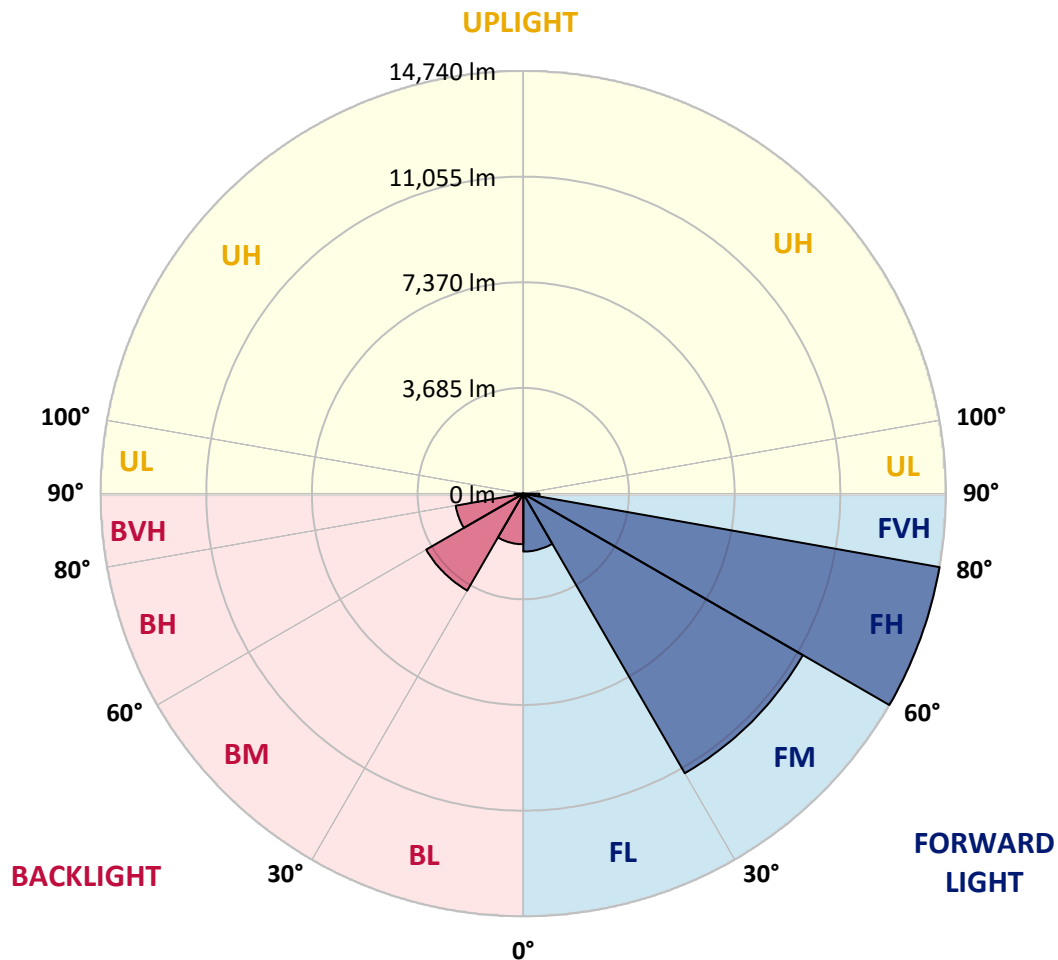
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2020.4	5.5			
FM	(30°-60°)	11257.0	30.5			
FH	(60°-80°)	14740.3	39.9			G5
FVH	(80°-90°)	563.7	1.5			G4/750
BL	(0°-30°)	1765.6	4.8	B3/2500		
BM	(30°-60°)	3905.7	10.6	B3/5000		
BH	(60°-80°)	2394.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	299.3	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3709.0	3709.0	3709.0	3709.0	3709.0	3709.0	3709.0	3709.0	3709.0	3709.0	3709.0
2.5°	3948.3	3934.4	3932.4	3902.8	3887.0	3857.3	3845.5	3817.8	3784.2	3750.6	3718.9
5°	4258.7	4258.7	4244.8	4203.3	4138.1	4070.8	4041.2	3987.8	3892.9	3815.8	3750.6
7.5°	4577.0	4580.9	4553.3	4492.0	4399.0	4290.3	4262.6	4183.5	4049.1	3936.4	3839.5
10°	4851.8	4851.8	4814.2	4731.2	4614.5	4495.9	4468.2	4379.3	4229.0	4088.6	3962.1
12.5°	5061.4	5061.4	5011.9	4903.2	4776.7	4669.9	4638.3	4553.3	4412.9	4256.7	4096.5
15°	5197.8	5187.9	5132.5	5010.0	4887.4	4794.5	4772.7	4701.5	4573.0	4414.9	4234.9
17.5°	5203.7	5199.8	5146.4	5043.6	4936.8	4873.5	4859.7	4812.3	4711.4	4561.2	4371.4
20°	5089.0	5097.0	5061.4	4988.2	4936.8	4909.1	4903.2	4887.4	4816.2	4675.8	4486.0
22.5°	4966.5	4980.3	4946.7	4907.2	4903.2	4930.9	4934.8	4938.8	4893.3	4756.9	4582.9
25°	4936.8	4946.7	4913.1	4877.5	4899.2	4972.4	4988.2	5004.0	4968.4	4853.8	4697.6
27.5°	5087.1	5079.2	5013.9	4936.8	4950.7	5049.5	5071.3	5089.0	5071.3	4972.4	4839.9
30°	5512.1	5486.4	5356.0	5130.6	5059.4	5128.6	5150.3	5199.8	5199.8	5126.6	4994.1
32.5°	6223.9	6174.5	5935.2	5492.4	5245.2	5203.7	5225.5	5306.5	5348.0	5290.7	5146.4
35°	7087.9	7036.5	6694.5	6099.3	5585.3	5354.0	5348.0	5439.0	5549.7	5421.2	5233.4
37.5°	7955.8	7902.5	7491.2	6823.0	6081.6	5670.3	5634.7	5666.4	5713.8	5478.5	5354.0
40°	8823.8	8760.5	8400.7	7631.6	6688.5	6089.5	5996.5	5854.2	5834.4	5666.4	5587.3
42.5°	9683.8	9626.5	9444.6	8539.1	7416.1	6498.7	6356.4	6111.2	6186.3	6085.5	6016.3
45°	10551.8	10555.7	10362.0	9557.3	8293.9	7254.0	7062.2	6678.6	6856.6	6819.0	6858.5
47.5°	11320.9	11311.0	11241.8	10545.8	9383.3	8226.7	7979.6	7534.7	7839.2	7977.6	8280.1
50°	12066.2	12060.3	12064.2	11666.9	10648.6	9383.3	9110.5	8643.9	9329.9	9810.4	10352.1
52.5°	13133.9	13167.5	12928.2	12823.5	12186.8	10749.5	10449.0	9966.5	11091.5	11848.7	12906.5
55°	14205.4	14177.8	13989.9	14098.7	13796.2	12366.7	12052.4	11668.8	13052.8	13881.2	15470.8
57.5°	14836.1	14846.0	15037.8	15569.6	15783.2	14383.4	14098.7	13802.1	15257.3	15844.5	17752.4
60°	15403.6	15449.0	16000.6	17005.0	17584.3	16860.7	16607.6	16319.0	17279.8	17513.1	19733.4
62.5°	15581.5	15721.9	16684.7	18187.3	19340.0	19656.3	19341.9	18705.3	19205.5	19114.6	21075.9
65°	14693.8	14885.6	16611.6	18630.2	20907.8	22309.6	22109.9	20927.6	20846.5	20298.9	21295.3
67.5°	12356.9	12548.6	14765.0	17701.0	21556.3	24607.0	24407.3	22548.8	21843.0	20409.6	19634.6
70°	9041.3	9161.9	11281.3	14903.4	20253.4	25378.0	25447.2	23339.6	21487.1	18905.0	16121.3
72.5°	5209.7	5476.6	6961.4	10484.5	16546.3	23428.6	23909.0	21694.7	19237.2	15771.3	11271.4
75°	2240.1	2246.0	3218.7	5783.0	11206.2	18831.9	19296.5	17983.7	15107.0	10905.7	6018.3
77.5°	1065.7	1085.4	1415.6	2582.1	6168.5	13011.3	14264.8	12704.8	9662.1	5239.3	2273.7
80°	692.0	705.8	866.0	1281.2	3025.0	7544.6	8418.5	7329.1	4262.6	1872.3	980.6
82.5°	419.1	423.1	579.3	782.9	1664.7	3416.4	4027.3	3181.1	1818.9	1121.0	577.3
85°	255.0	257.0	351.9	484.4	1010.3	1180.3	1212.0	1202.1	1067.6	733.5	308.4
87.5°	122.6	126.5	181.9	229.3	397.4	365.8	346.0	401.4	504.2	395.4	132.5
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°	3709.0	3709.0	3709.0	3709.0	3709.0	3709.0	3709.0	3709.0	3709.0	3709.0	3709.0
2.5°	3705.1	3699.1	3685.3	3679.4	3675.4	3677.4	3675.4	3675.4	3677.4	3677.4	3677.4
5°	3722.9	3713.0	3691.2	3691.2	3703.1	3730.8	3756.5	3776.3	3798.0	3796.0	3796.0
7.5°	3800.0	3782.2	3756.5	3764.4	3794.0	3837.5	3883.0	3926.5	3970.0	3974.0	3972.0
10°	3912.7	3894.9	3867.2	3877.1	3924.5	3989.8	4047.1	4110.4	4157.8	4171.7	4167.7
12.5°	4041.2	4005.6	3981.9	4009.6	4084.7	4171.7	4227.0	4274.5	4308.1	4327.9	4320.0
15°	4171.7	4138.1	4110.4	4167.7	4258.7	4339.7	4367.4	4375.3	4381.2	4401.0	4397.1
17.5°	4298.2	4252.7	4242.9	4318.0	4405.0	4440.6	4424.7	4391.1	4365.4	4381.2	4379.3
20°	4410.9	4375.3	4371.4	4446.5	4480.1	4446.5	4379.3	4320.0	4274.5	4278.4	4276.5
22.5°	4517.7	4490.0	4493.9	4525.6	4472.2	4357.5	4246.8	4165.7	4116.3	4126.2	4132.1
25°	4636.3	4608.6	4618.5	4567.1	4391.1	4191.4	4031.3	3962.1	3942.3	3962.1	3975.9
27.5°	4790.5	4772.7	4766.8	4569.1	4246.8	3946.3	3764.4	3738.7	3756.5	3800.0	3821.7
30°	4956.6	4956.6	4924.9	4535.5	4049.1	3651.7	3493.5	3497.5	3558.8	3620.1	3641.8
32.5°	5116.7	5150.3	5051.5	4444.5	3794.0	3365.0	3244.4	3248.4	3301.8	3376.9	3396.7
35°	5249.2	5346.1	5160.2	4278.4	3493.5	3123.8	3032.9	2979.5	2981.5	3038.8	3054.6
37.5°	5431.1	5611.0	5223.5	4031.3	3173.2	2918.2	2815.4	2722.5	2661.2	2637.4	2637.4
40°	5747.4	6012.4	5239.3	3665.5	2870.7	2722.5	2576.2	2465.4	2346.8	2240.1	2220.3
42.5°	6283.2	6617.3	5207.7	3244.4	2597.9	2507.0	2364.6	2228.2	2064.1	1913.8	1902.0
45°	7232.2	7404.2	5122.7	2807.5	2354.7	2299.4	2161.0	2012.7	1838.7	1704.3	1694.4
47.5°	8752.6	8509.4	5010.0	2420.0	2133.3	2117.5	2010.7	1838.7	1664.7	1571.8	1561.9
50°	10972.9	10249.3	4994.1	2139.2	1955.3	1963.3	1876.3	1718.1	1565.9	1488.8	1476.9
52.5°	13645.9	12350.9	5098.9	1941.5	1799.2	1828.8	1785.3	1639.0	1504.6	1439.3	1427.5
55°	16239.9	14241.0	5162.2	1787.3	1652.9	1708.2	1714.1	1591.6	1469.0	1403.7	1395.8
57.5°	18345.5	15664.5	4881.5	1646.9	1526.3	1611.3	1654.8	1563.9	1451.2	1401.8	1393.9
60°	19810.5	16336.8	4082.7	1522.4	1433.4	1534.2	1633.1	1565.9	1494.7	1500.6	1504.6
62.5°	20277.1	16038.2	3062.5	1429.4	1370.1	1508.5	1668.7	1646.9	1573.8	1619.2	1627.2
65°	19504.1	14804.5	2220.3	1356.3	1314.8	1526.3	1775.4	1706.2	1546.1	1579.7	1579.7
67.5°	16916.0	12754.3	1728.0	1289.1	1251.5	1559.9	1882.2	1700.3	1480.8	1520.4	1484.8
70°	13418.6	9865.7	1439.3	1213.9	1184.3	1510.5	1892.1	1639.0	1403.7	1411.6	1344.4
72.5°	8904.8	6486.9	1237.7	1142.8	1081.5	1358.3	1811.0	1559.9	1328.6	1283.1	1215.9
75°	4363.5	3234.5	1079.5	1053.8	947.0	1182.3	1700.3	1484.8	1247.5	1176.4	1138.8
77.5°	1690.4	1376.1	921.3	941.1	824.4	1041.9	1554.0	1378.0	1140.8	1043.9	1014.3
80°	820.5	781.0	755.3	784.9	678.1	887.7	1419.6	1285.1	1041.9	935.2	891.7
82.5°	510.1	482.4	579.3	610.9	522.0	810.6	1346.4	1206.0	917.4	775.0	739.4
85°	259.0	276.8	387.5	417.2	373.7	644.5	1109.2	905.5	662.3	549.6	553.6
87.5°	98.9	132.5	203.6	219.5	199.7	340.1	610.9	527.9	425.1	288.7	266.9
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)