

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: P522778

Luminaire Tested: **GALN-SA5C-735-U-T4W**

Issue Date: 5/13/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P522778  
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-SA5C-735-U-T4W  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32821 lumens  
Efficiency: N/A  
Efficacy: 122.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

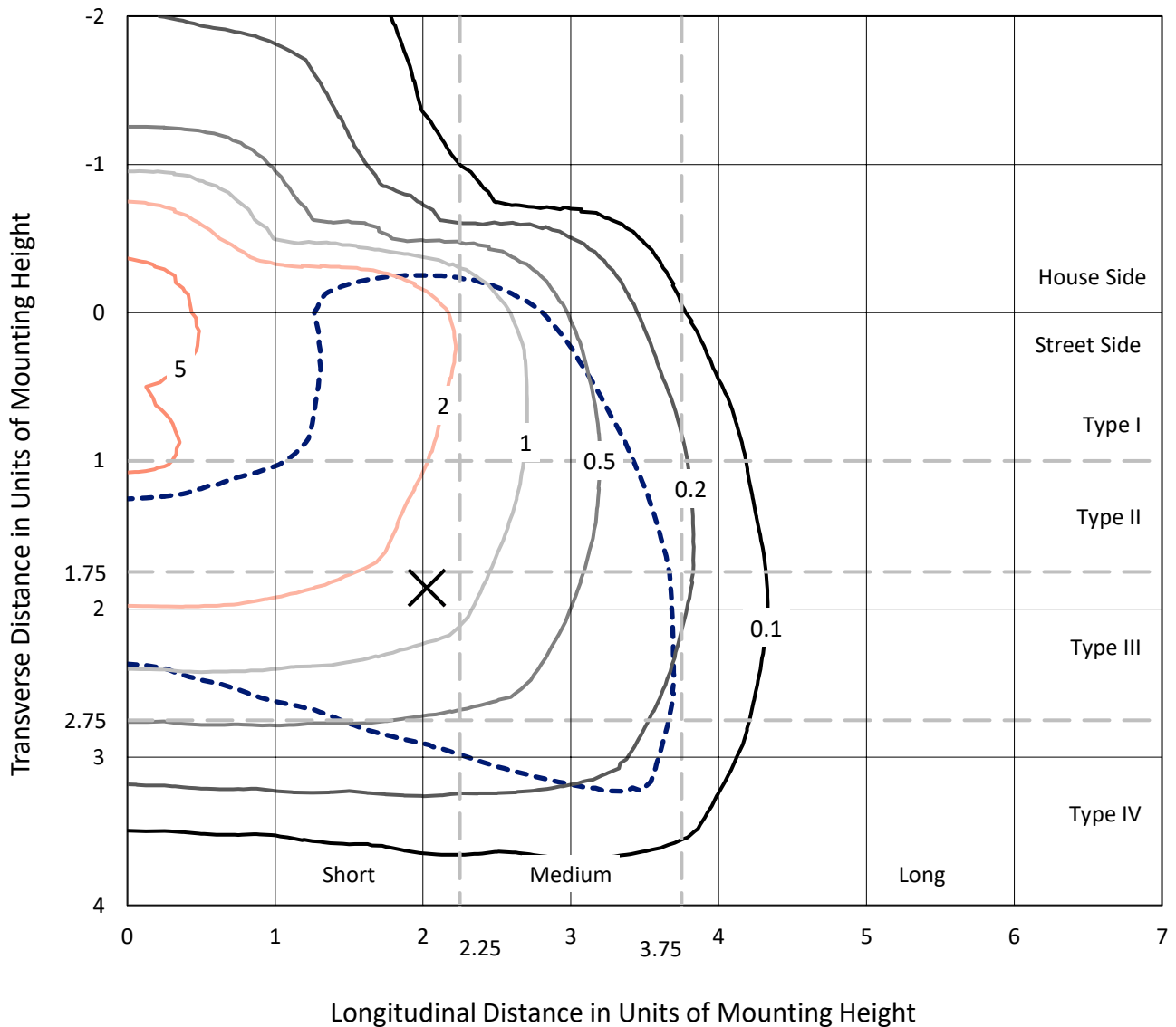
Input Watts (W): 269  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

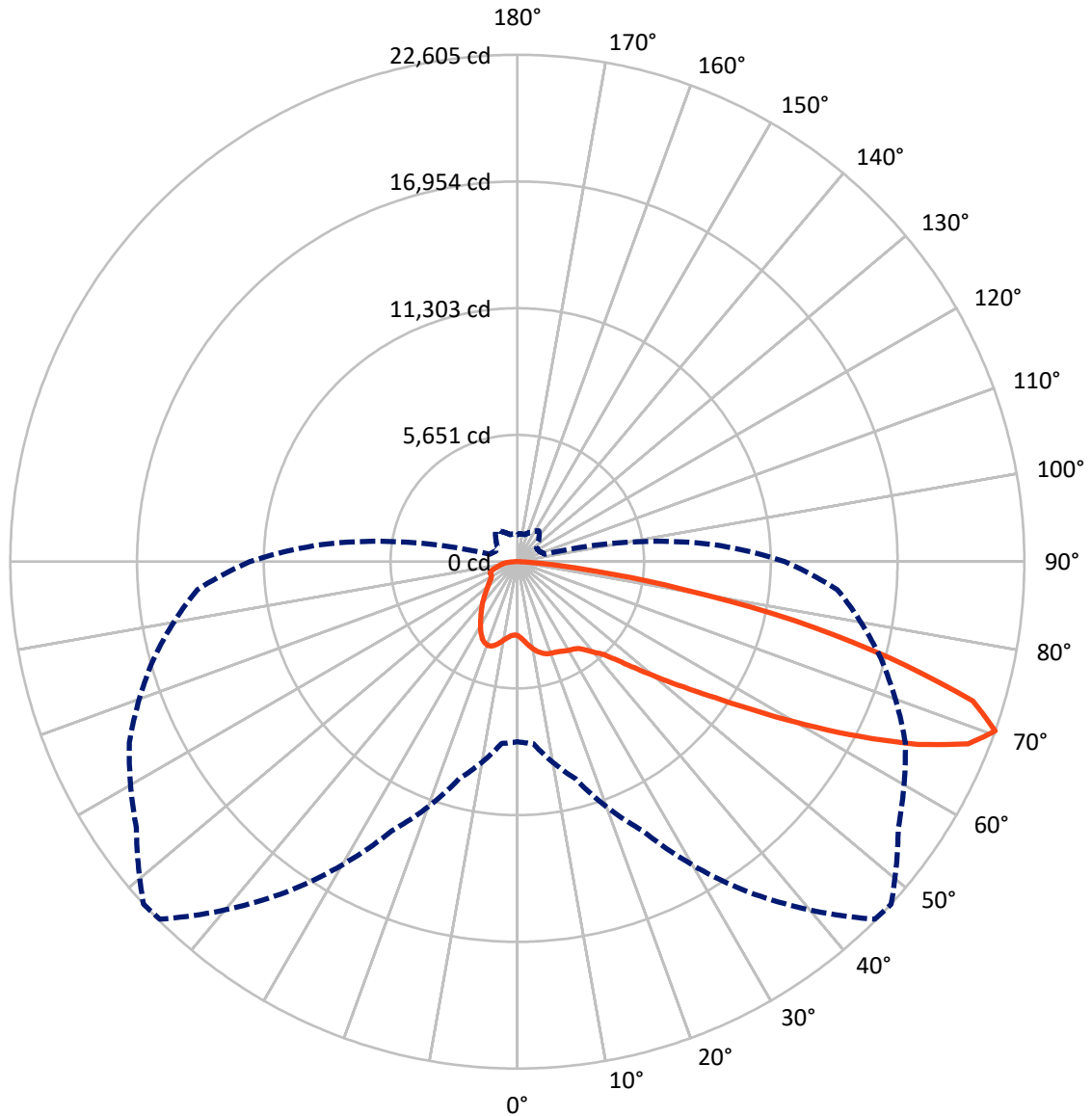
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 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
<b>House Side</b>	Lumens	7431.3	0.0	7431.3
	% Fixture	22.6	0.0	22.6
<b>Street Side</b>	Lumens	25389.7	0.0	25389.7
	% Fixture	77.4	0.0	77.4
<b>Total</b>	Lumens	32821.0	0.0	32821.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	339.6	1.0
10°-20°	1135.4	3.5
20°-30°	1888.2	5.8
30°-40°	2676.2	8.2
40°-50°	3950.6	12.0
50°-60°	6842.7	20.8
60°-70°	9665.5	29.4
70°-80°	5556.2	16.9
80°-90°	766.6	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°	32821.0	100.0
0°-180°	32821.0	100.0

**Coefficient of Utilization**



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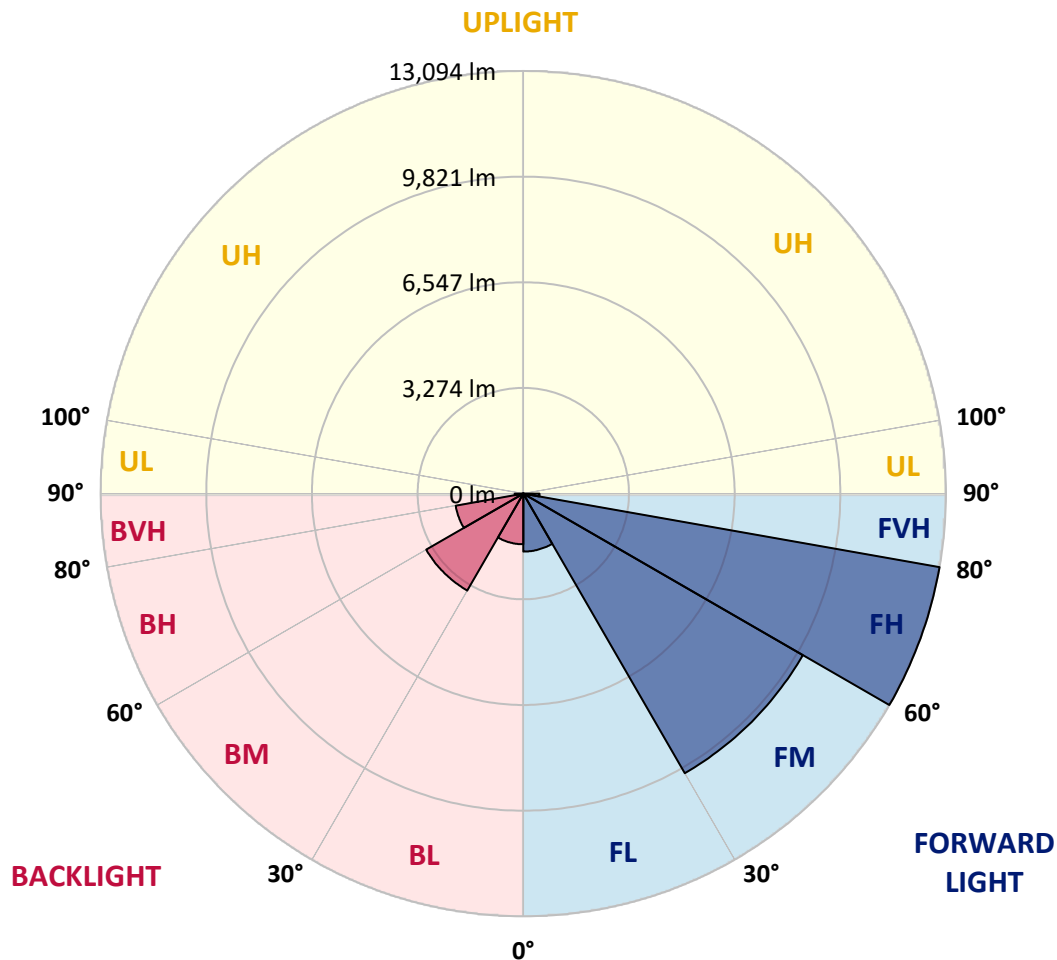
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1794.8	5.5			
FM	(30°-60°)	9999.9	30.5			
FH	(60°-80°)	13094.2	39.9			G5
FVH	(80°-90°)	500.8	1.5			G4/750
BL	(0°-30°)	1568.4	4.8	B3/2500		
BM	(30°-60°)	3469.6	10.6	B3/5000		
BH	(60°-80°)	2127.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	265.8	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°	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8
2.5°	3507.3	3495.1	3493.3	3467.0	3452.9	3426.6	3416.0	3391.4	3361.6	3331.7	3303.6
5°	3783.1	3783.1	3770.8	3733.9	3676.0	3616.2	3589.9	3542.5	3458.2	3389.7	3331.7
7.5°	4065.9	4069.4	4044.8	3990.3	3907.8	3811.2	3786.6	3716.3	3596.9	3496.8	3410.7
10°	4310.0	4310.0	4276.6	4202.8	4099.2	3993.8	3969.3	3890.2	3756.7	3632.0	3519.6
12.5°	4496.1	4496.1	4452.2	4355.6	4243.2	4148.4	4120.3	4044.8	3920.1	3781.3	3639.1
15°	4617.3	4608.6	4559.4	4450.5	4341.6	4259.0	4239.7	4176.5	4062.3	3921.8	3762.0
17.5°	4622.6	4619.1	4571.7	4480.3	4385.5	4329.3	4317.0	4274.9	4185.3	4051.8	3883.2
20°	4520.7	4527.8	4496.1	4431.2	4385.5	4360.9	4355.6	4341.6	4278.4	4153.7	3985.1
22.5°	4411.8	4424.1	4394.3	4359.2	4355.6	4380.2	4383.7	4387.3	4346.9	4225.7	4071.1
25°	4385.5	4394.3	4364.4	4332.8	4352.1	4417.1	4431.2	4445.2	4413.6	4311.7	4173.0
27.5°	4519.0	4512.0	4454.0	4385.5	4397.8	4485.6	4504.9	4520.7	4504.9	4417.1	4299.4
30°	4896.6	4873.8	4757.8	4557.6	4494.4	4555.9	4575.2	4619.1	4619.1	4554.1	4436.4
32.5°	5528.9	5484.9	5272.4	4879.0	4659.5	4622.6	4641.9	4713.9	4750.8	4699.9	4571.7
35°	6296.4	6250.7	5946.9	5418.2	4961.6	4756.1	4750.8	4831.6	4930.0	4815.8	4648.9
37.5°	7067.4	7020.0	6654.7	6061.0	5402.4	5037.1	5005.5	5033.6	5075.7	4866.7	4756.1
40°	7838.4	7782.2	7462.6	6779.3	5941.6	5409.4	5326.9	5200.4	5182.9	5033.6	4963.3
42.5°	8602.4	8551.5	8389.9	7585.5	6587.9	5773.0	5646.5	5428.7	5495.5	5405.9	5344.4
45°	9373.4	9376.9	9204.8	8490.0	7367.7	6443.9	6273.5	5932.8	6090.9	6057.5	6092.6
47.5°	10056.6	10047.8	9986.4	9368.1	8335.4	7308.0	7088.5	6693.3	6963.8	7086.7	7355.4
50°	10718.7	10713.5	10717.0	10364.0	9459.5	8335.4	8093.1	7678.6	8288.0	8714.8	9196.0
52.5°	11667.2	11697.0	11484.5	11391.4	10825.9	9549.0	9282.1	8853.5	9852.9	10525.6	11465.2
55°	12619.1	12594.5	12427.6	12524.2	12255.5	10985.7	10706.5	10365.7	11595.1	12331.0	13743.1
57.5°	13179.3	13188.1	13358.5	13830.9	14020.6	12777.1	12524.2	12260.8	13553.4	14075.1	15769.9
60°	13683.4	13723.8	14213.8	15106.0	15620.6	14977.8	14753.0	14496.6	15350.1	15557.4	17529.7
62.5°	13841.5	13966.2	14821.5	16156.3	17180.2	17461.2	17182.0	16616.4	17060.8	16980.0	18722.2
65°	13052.9	13223.2	14756.5	16549.7	18573.0	19818.2	19640.8	18590.5	18518.5	18032.0	18917.2
67.5°	10976.9	11147.3	13116.1	15724.2	19149.0	21859.0	21681.6	20030.7	19403.7	18130.4	17441.9
70°	8031.6	8138.7	10021.5	13239.0	17991.6	22544.0	22605.4	20733.2	19087.6	16793.8	14320.9
72.5°	4627.9	4865.0	6184.0	9313.7	14698.5	20812.2	21239.0	19272.0	17088.9	14010.1	10012.7
75°	1989.9	1995.2	2859.3	5137.2	9954.8	16728.8	17141.6	15975.4	13419.9	9687.8	5346.2
77.5°	946.6	964.2	1257.5	2293.7	5479.7	11558.3	12671.8	11286.0	8583.1	4654.2	2019.8
80°	614.7	627.0	769.3	1138.1	2687.2	6702.1	7478.4	6510.6	3786.6	1663.2	871.1
82.5°	372.3	375.8	514.6	695.5	1478.8	3034.9	3577.6	2825.9	1615.8	995.8	512.8
85°	226.6	228.3	312.6	430.3	897.5	1048.5	1076.6	1067.8	948.4	651.6	274.0
87.5°	108.9	112.4	161.6	203.7	353.0	324.9	307.4	356.5	447.9	351.3	117.7
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°	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8	3294.8
2.5°	3291.3	3286.1	3273.8	3268.5	3265.0	3266.7	3265.0	3265.0	3266.7	3266.7	3266.7
5°	3307.1	3298.3	3279.0	3279.0	3289.6	3314.2	3337.0	3354.5	3373.9	3372.1	3372.1
7.5°	3375.6	3359.8	3337.0	3344.0	3370.4	3409.0	3449.4	3488.0	3526.7	3530.2	3528.4
10°	3475.7	3459.9	3435.3	3444.1	3486.3	3544.2	3595.2	3651.4	3693.5	3705.8	3702.3
12.5°	3589.9	3558.3	3537.2	3561.8	3628.5	3705.8	3755.0	3797.1	3827.0	3844.6	3837.5
15°	3705.8	3676.0	3651.4	3702.3	3783.1	3855.1	3879.7	3886.7	3892.0	3909.5	3906.0
17.5°	3818.2	3777.8	3769.0	3835.8	3913.1	3944.7	3930.6	3900.8	3877.9	3892.0	3890.2
20°	3918.3	3886.7	3883.2	3949.9	3979.8	3949.9	3890.2	3837.5	3797.1	3800.7	3798.9
22.5°	4013.2	3988.6	3992.1	4020.2	3972.8	3870.9	3772.5	3700.5	3656.6	3665.4	3670.7
25°	4118.5	4094.0	4102.7	4057.1	3900.8	3723.4	3581.1	3519.6	3502.1	3519.6	3531.9
27.5°	4255.5	4239.7	4234.5	4058.8	3772.5	3505.6	3344.0	3321.2	3337.0	3375.6	3394.9
30°	4403.1	4403.1	4375.0	4029.0	3596.9	3243.9	3103.4	3106.9	3161.4	3215.8	3235.1
32.5°	4545.3	4575.2	4487.4	3948.2	3370.4	2989.2	2882.1	2885.6	2933.0	2999.8	3017.3
35°	4663.0	4749.1	4584.0	3800.7	3103.4	2775.0	2694.2	2646.8	2648.5	2699.4	2713.5
37.5°	4824.6	4984.4	4640.2	3581.1	2818.9	2592.3	2501.0	2418.4	2364.0	2342.9	2342.9
40°	5105.6	5340.9	4654.2	3256.2	2550.2	2418.4	2288.5	2190.1	2084.7	1989.9	1972.3
42.5°	5581.5	5878.4	4626.1	2882.1	2307.8	2227.0	2100.5	1979.4	1833.6	1700.1	1689.6
45°	6424.6	6577.4	4550.6	2494.0	2091.8	2042.6	1919.6	1787.9	1633.4	1513.9	1505.2
47.5°	7775.2	7559.1	4450.5	2149.7	1895.1	1881.0	1786.2	1633.4	1478.8	1396.3	1387.5
50°	9747.5	9104.7	4436.4	1900.3	1737.0	1744.0	1666.7	1526.2	1391.0	1322.5	1312.0
52.5°	12122.0	10971.7	4529.5	1724.7	1598.2	1624.6	1585.9	1456.0	1336.6	1278.6	1268.1
55°	14426.3	12650.7	4585.7	1587.7	1468.3	1517.4	1522.7	1413.8	1304.9	1247.0	1240.0
57.5°	16296.8	13915.2	4336.3	1463.0	1355.9	1431.4	1470.0	1389.2	1289.1	1245.2	1238.2
60°	17598.2	14512.4	3626.8	1352.4	1273.3	1362.9	1450.7	1391.0	1327.8	1333.0	1336.6
62.5°	18012.7	14247.2	2720.5	1269.8	1217.1	1340.1	1482.3	1463.0	1398.0	1438.4	1445.4
65°	17326.0	13151.2	1972.3	1204.8	1167.9	1355.9	1577.2	1515.7	1373.4	1403.3	1403.3
67.5°	15027.0	11329.9	1535.0	1145.1	1111.7	1385.7	1672.0	1510.4	1315.5	1350.6	1319.0
70°	11920.1	8764.0	1278.6	1078.4	1052.0	1341.8	1680.8	1456.0	1247.0	1254.0	1194.3
72.5°	7910.4	5762.4	1099.4	1015.1	960.7	1206.6	1608.8	1385.7	1180.2	1139.8	1080.1
75°	3876.2	2873.3	958.9	936.1	841.3	1050.3	1510.4	1319.0	1108.2	1045.0	1011.6
77.5°	1501.6	1222.4	818.4	836.0	732.4	925.6	1380.5	1224.1	1013.4	927.3	901.0
80°	728.9	693.7	670.9	697.3	602.4	788.6	1261.0	1141.6	925.6	830.7	792.1
82.5°	453.1	428.5	514.6	542.7	463.7	720.1	1196.0	1071.3	814.9	688.5	656.9
85°	230.1	245.9	344.2	370.6	331.9	572.6	985.3	804.4	588.4	488.3	491.8
87.5°	87.8	117.7	180.9	195.0	177.4	302.1	542.7	468.9	377.6	256.4	237.1
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)