

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: P522814

Luminaire Tested: **GALN-SA6C-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522814
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-SA6C-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 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: 38864 lumens
Efficiency: N/A
Efficacy: 121.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

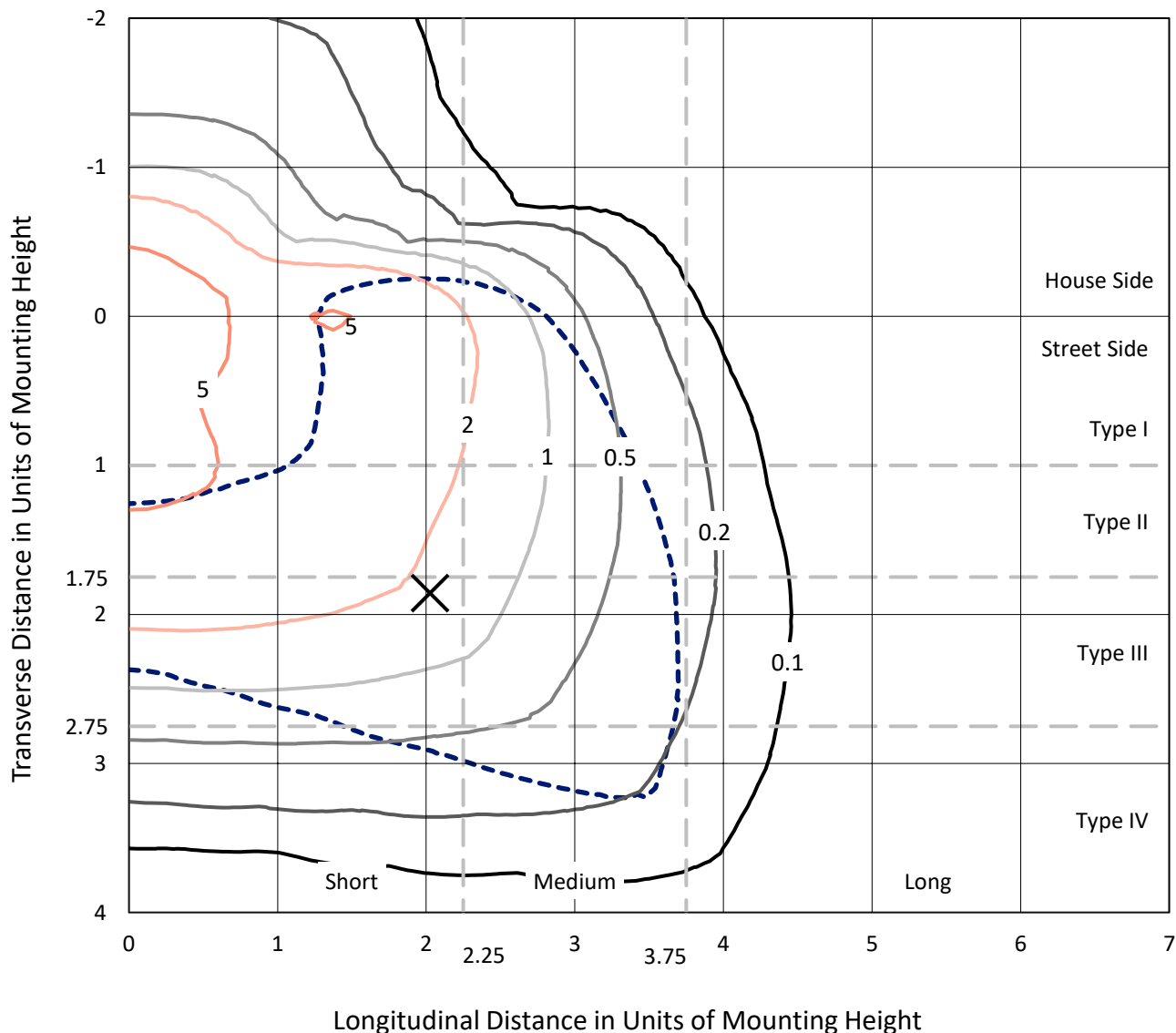
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P522814
 CATALOG NUMBER: GALN-SA6C-735-U-T4W

Iso-Footcandle Lines of Horizontal Illumination

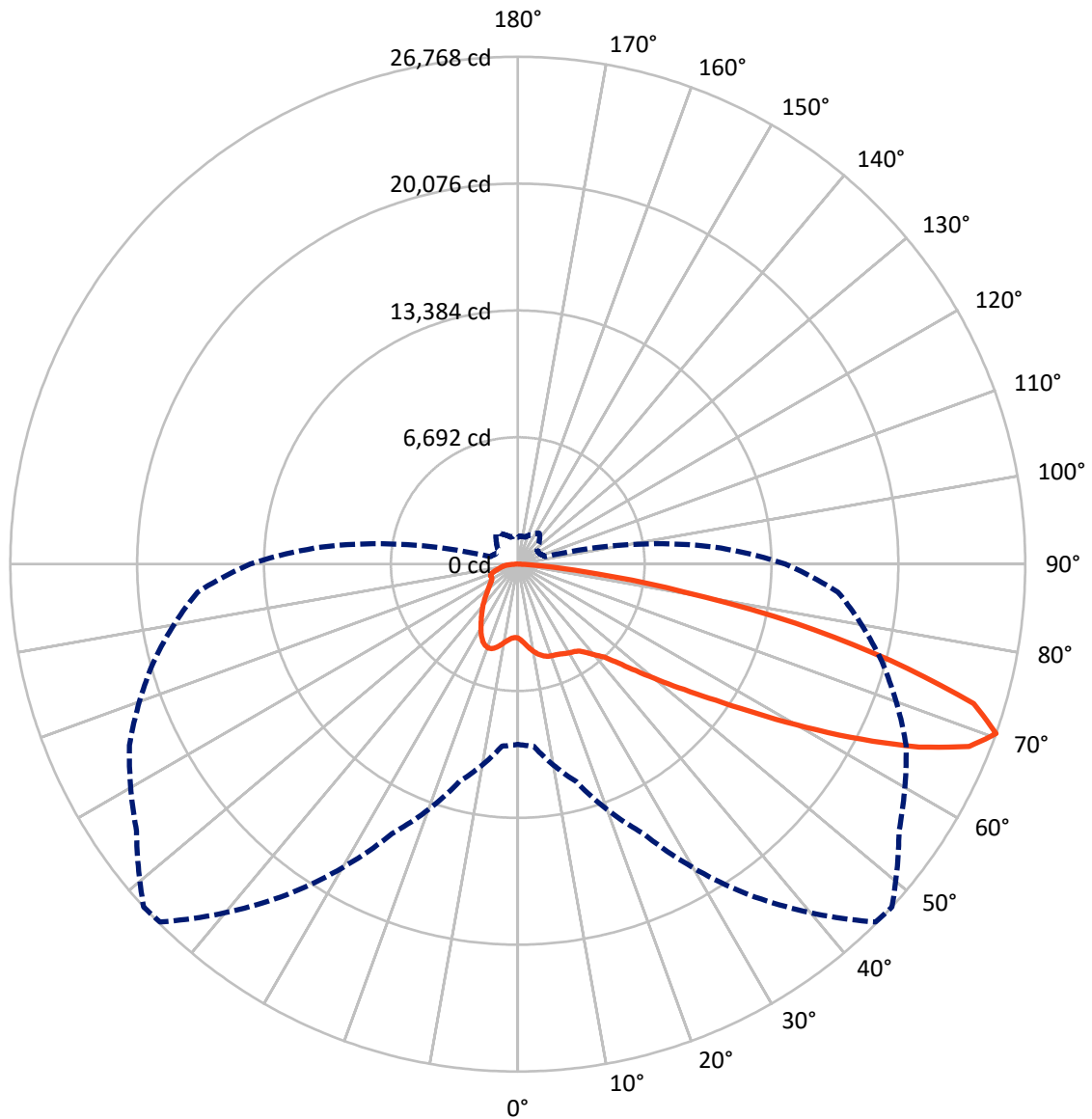
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

REPORT NUMBER: P522814
CATALOG NUMBER: GALN-SA6C-735-U-T4W

Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P522814

CATALOG NUMBER: GALN-SA6C-735-U-T4W

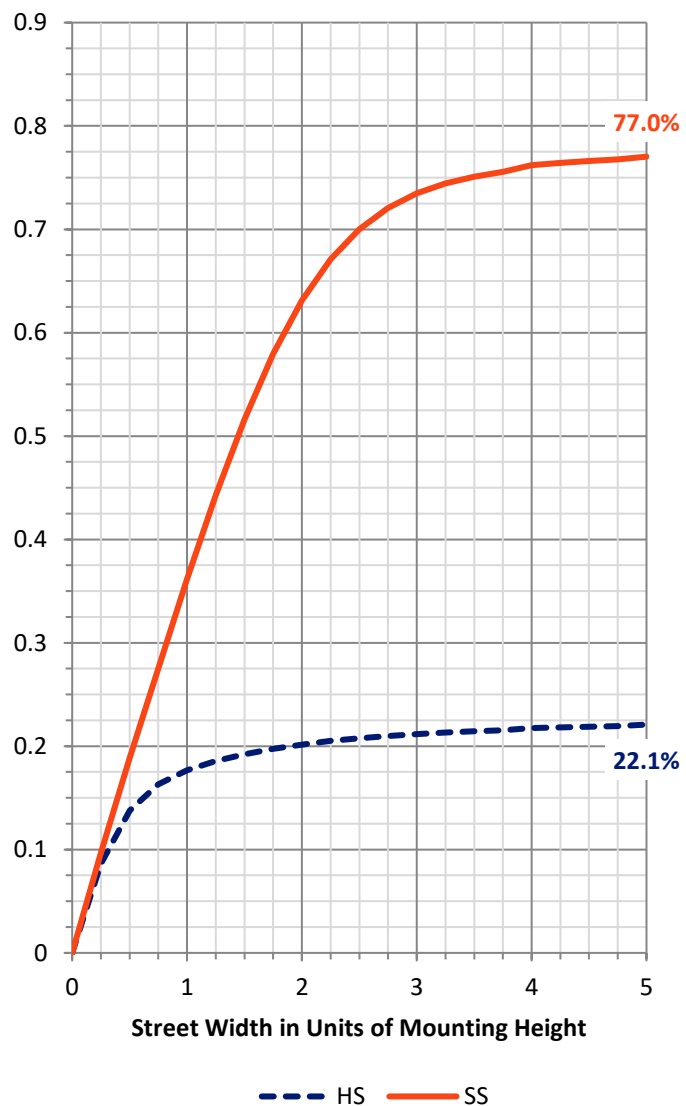
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8799.6	0.0	8799.6
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	30064.4	0.0	30064.4
	% Fixture	77.4	0.0	77.4
Total	Lumens	38864.0	0.0	38864.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.2	1.0
10°-20°	1344.5	3.5
20°-30°	2235.8	5.8
30°-40°	3168.9	8.2
40°-50°	4678.0	12.0
50°-60°	8102.5	20.8
60°-70°	11445.1	29.4
70°-80°	6579.2	16.9
80°-90°	907.8	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°	38864.0	100.0
0°-180°	38864.0	100.0

Coefficient of Utilization



REPORT NUMBER: P522814

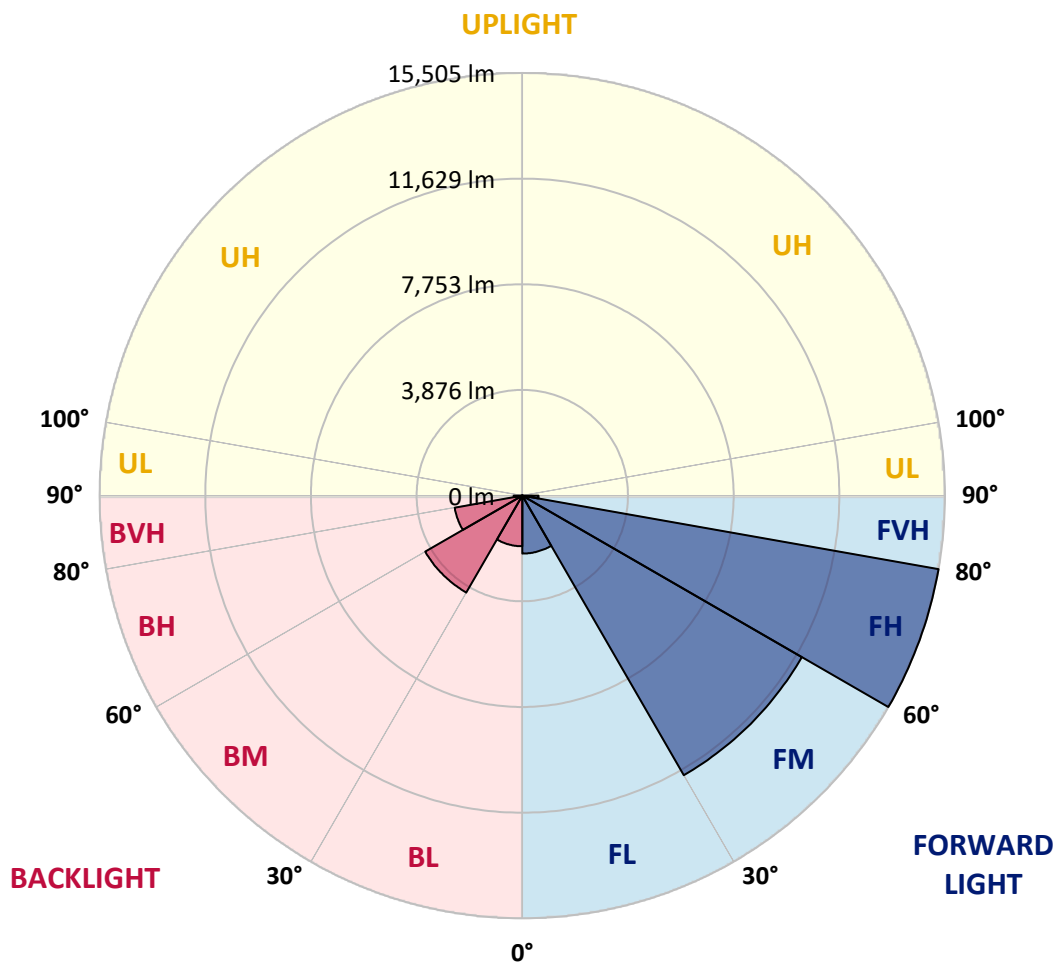
CATALOG NUMBER: GALN-SA6C-735-U-T4W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2125.2	5.5			
FM	(30°-60°)	11841.1	30.5			
FH	(60°-80°)	15505.1	39.9			G5
FVH	(80°-90°)	593.0	1.5			G4/750
BL	(0°-30°)	1857.2	4.8	B3/2500		
BM	(30°-60°)	4108.4	10.6	B3/5000		
BH	(60°-80°)	2519.2	6.5	B4/5000		G4/5000
BVH	(80°-90°)	314.8	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Short





REPORT NUMBER: P522814

CATALOG NUMBER: GALN-SA6C-735-U-T4W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3901.5	3901.5	3901.5	3901.5	3901.5	3901.5	3901.5	3901.5	3901.5	3901.5	3901.5
2.5°	4153.1	4138.6	4136.5	4105.3	4088.6	4057.5	4045.0	4015.9	3980.5	3945.2	3911.9
5°	4479.6	4479.6	4465.1	4421.4	4352.8	4282.1	4250.9	4194.7	4094.9	4013.8	3945.2
7.5°	4814.5	4818.6	4789.5	4725.0	4627.3	4512.9	4483.8	4400.6	4259.2	4140.6	4038.7
10°	5103.5	5103.5	5064.0	4976.7	4854.0	4729.2	4700.1	4606.5	4448.4	4300.8	4167.7
12.5°	5324.0	5324.0	5272.0	5157.6	5024.5	4912.2	4878.9	4789.5	4641.8	4477.5	4309.1
15°	5467.5	5457.1	5398.8	5269.9	5141.0	5043.2	5020.3	4945.5	4810.3	4643.9	4454.7
17.5°	5473.7	5469.6	5413.4	5305.3	5193.0	5126.4	5111.9	5061.9	4955.9	4797.8	4598.2
20°	5353.1	5361.4	5324.0	5247.0	5193.0	5163.8	5157.6	5141.0	5066.1	4918.4	4718.8
22.5°	5224.2	5238.7	5203.4	5161.8	5157.6	5186.7	5190.9	5195.0	5147.2	5003.7	4820.7
25°	5193.0	5203.4	5168.0	5130.6	5153.4	5230.4	5247.0	5263.7	5226.2	5105.6	4941.3
27.5°	5351.0	5342.7	5274.1	5193.0	5207.5	5311.5	5334.4	5353.1	5334.4	5230.4	5091.1
30°	5798.1	5771.1	5633.9	5396.8	5321.9	5394.7	5417.6	5469.6	5469.6	5392.6	5253.3
32.5°	6546.8	6494.8	6243.2	5777.3	5517.4	5473.7	5496.6	5581.9	5625.5	5565.2	5413.4
35°	7455.6	7401.6	7041.8	6415.8	5875.1	5631.8	5625.5	5721.2	5837.7	5702.5	5504.9
37.5°	8368.6	8312.5	7879.9	7177.0	6397.1	5964.5	5927.1	5960.4	6010.3	5762.8	5631.8
40°	9281.6	9215.1	8836.6	8027.6	7035.6	6405.4	6307.7	6157.9	6137.1	5960.4	5877.2
42.5°	10186.3	10126.0	9934.6	8982.1	7800.9	6835.9	6686.2	6428.3	6507.3	6401.3	6328.5
45°	11099.2	11103.4	10899.6	10053.2	8724.3	7630.3	7428.6	7025.2	7212.3	7172.8	7214.4
47.5°	11908.2	11897.8	11825.1	11093.0	9870.2	8653.5	8393.6	7925.7	8245.9	8391.5	8709.7
50°	12692.3	12686.0	12690.2	12272.2	11201.2	9870.2	9583.2	9092.4	9814.0	10319.4	10889.2
52.5°	13815.3	13850.7	13599.0	13488.8	12819.1	11307.2	10991.1	10483.7	11667.0	12463.5	13576.1
55°	14942.5	14913.4	14715.8	14830.2	14512.0	13008.4	12677.7	12274.3	13730.0	14601.4	16273.5
57.5°	15605.9	15616.3	15818.0	16377.5	16602.1	15129.7	14830.2	14518.2	16048.9	16666.5	18673.4
60°	16202.8	16250.6	16830.8	17887.3	18496.7	17735.5	17469.3	17165.7	18176.4	18421.8	20757.3
62.5°	16390.0	16537.6	17550.4	19131.0	20343.4	20676.2	20345.5	19675.8	20202.0	20106.3	22169.4
65°	15456.2	15657.9	17473.5	19596.8	21992.6	23467.1	23257.1	22013.4	21928.1	21352.1	22400.2
67.5°	12998.0	13199.7	15531.0	18619.4	22674.7	25883.7	25673.6	23718.7	22976.3	21468.5	20653.3
70°	9510.4	9637.2	11866.6	15676.6	21304.2	26694.8	26767.5	24550.6	22602.0	19885.9	16957.7
72.5°	5480.0	5760.7	7322.6	11028.5	17404.8	24644.2	25149.6	22820.3	20235.3	16589.6	11856.3
75°	2356.3	2362.5	3385.7	6083.1	11787.6	19808.9	20297.7	18916.8	15890.8	11471.5	6330.5
77.5°	1120.9	1141.7	1489.1	2716.1	6488.6	13686.4	15004.9	13364.0	10163.4	5511.1	2391.6
80°	727.9	742.4	910.9	1347.6	3181.9	7936.1	8855.3	7709.4	4483.8	1969.5	1031.5
82.5°	440.9	445.1	609.3	823.6	1751.1	3593.7	4236.3	3346.2	1913.3	1179.2	607.3
85°	268.3	270.4	370.2	509.5	1062.7	1241.6	1274.8	1264.4	1123.0	771.6	324.4
87.5°	128.9	133.1	191.3	241.2	418.0	384.7	363.9	422.2	530.3	415.9	139.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P522814
 CATALOG NUMBER: GALN-SA6C-735-U-T4W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3901.5	3901.5	3901.5	3901.5	3901.5	3901.5	3901.5	3901.5	3901.5	3901.5	3901.5
2.5°	3897.3	3891.1	3876.5	3870.3	3866.1	3868.2	3866.1	3866.1	3868.2	3868.2	3868.2
5°	3916.0	3905.6	3882.8	3882.8	3895.2	3924.4	3951.4	3972.2	3995.1	3993.0	3993.0
7.5°	3997.1	3978.4	3951.4	3959.7	3990.9	4036.7	4084.5	4130.2	4176.0	4180.2	4178.1
10°	4115.7	4097.0	4067.9	4078.3	4128.2	4196.8	4257.1	4323.7	4373.6	4388.1	4384.0
12.5°	4250.9	4213.4	4188.5	4217.6	4296.6	4388.1	4446.4	4496.3	4531.6	4552.4	4544.1
15°	4388.1	4352.8	4323.7	4384.0	4479.6	4564.9	4594.0	4602.3	4608.6	4629.4	4625.2
17.5°	4521.2	4473.4	4463.0	4542.0	4633.5	4671.0	4654.3	4619.0	4591.9	4608.6	4606.5
20°	4639.8	4602.3	4598.2	4677.2	4712.6	4677.2	4606.5	4544.1	4496.3	4500.4	4498.3
22.5°	4752.1	4723.0	4727.1	4760.4	4704.2	4583.6	4467.2	4381.9	4329.9	4340.3	4346.5
25°	4876.8	4847.7	4858.1	4804.1	4619.0	4408.9	4240.5	4167.7	4146.9	4167.7	4182.2
27.5°	5039.1	5020.3	5014.1	4806.1	4467.2	4151.0	3959.7	3932.7	3951.4	3997.1	4020.0
30°	5213.8	5213.8	5180.5	4770.8	4259.2	3841.2	3674.8	3679.0	3743.4	3807.9	3830.8
32.5°	5382.2	5417.6	5313.6	4675.1	3990.9	3539.6	3412.8	3416.9	3473.1	3552.1	3572.9
35°	5521.5	5623.5	5428.0	4500.4	3674.8	3285.9	3190.2	3134.1	3136.2	3196.5	3213.1
37.5°	5712.9	5902.1	5494.5	4240.5	3337.9	3069.6	2961.5	2863.7	2799.2	2774.3	2774.3
40°	6045.6	6324.3	5511.1	3855.7	3019.7	2863.7	2709.8	2593.4	2468.6	2356.3	2335.5
42.5°	6609.2	6960.7	5477.9	3412.8	2732.7	2637.0	2487.3	2343.8	2171.2	2013.1	2000.7
45°	7607.5	7788.4	5388.4	2953.1	2476.9	2418.7	2273.1	2117.1	1934.1	1792.7	1782.3
47.5°	9206.7	8950.9	5269.9	2545.5	2244.0	2227.3	2115.0	1934.1	1751.1	1653.3	1642.9
50°	11542.2	10781.1	5253.3	2250.2	2056.8	2065.1	1973.6	1807.2	1647.1	1566.0	1553.5
52.5°	14353.9	12991.8	5363.5	2042.2	1892.5	1923.7	1878.0	1724.1	1582.6	1514.0	1501.5
55°	17082.5	14979.9	5430.0	1880.0	1738.6	1796.8	1803.1	1674.1	1545.2	1476.6	1468.3
57.5°	19297.3	16477.3	5134.7	1732.4	1605.5	1694.9	1740.7	1645.0	1526.5	1474.5	1466.2
60°	20838.4	17184.4	4294.5	1601.4	1507.8	1613.8	1717.8	1647.1	1572.2	1578.5	1582.6
62.5°	21329.2	16870.4	3221.4	1503.6	1441.2	1586.8	1755.2	1732.4	1655.4	1703.3	1711.6
65°	20516.0	15572.6	2335.5	1426.7	1383.0	1605.5	1867.6	1794.8	1626.3	1661.7	1661.7
67.5°	17793.7	13416.0	1817.6	1356.0	1316.4	1640.9	1979.9	1788.5	1557.7	1599.3	1561.8
70°	14114.8	10377.6	1514.0	1276.9	1245.7	1588.9	1990.3	1724.1	1476.6	1484.9	1414.2
72.5°	9366.9	6823.4	1301.9	1202.1	1137.6	1428.7	1905.0	1640.9	1397.5	1349.7	1279.0
75°	4589.9	3402.4	1135.5	1108.5	996.2	1243.6	1788.5	1561.8	1312.3	1237.4	1197.9
77.5°	1778.1	1447.5	969.1	989.9	867.2	1096.0	1634.6	1449.5	1200.0	1098.1	1066.9
80°	863.1	821.5	794.4	825.6	713.3	933.8	1493.2	1351.8	1096.0	983.7	937.9
82.5°	536.6	507.4	609.3	642.6	549.0	852.7	1416.3	1268.6	965.0	815.2	777.8
85°	272.4	291.2	407.6	438.8	393.1	678.0	1166.7	952.5	696.7	578.2	582.3
87.5°	104.0	139.3	214.2	230.8	210.0	357.7	642.6	555.3	447.1	303.6	280.8
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)