

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: P459260

Luminaire Tested: **GALN-SA7B-735-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459260
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7B-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36612 lumens
Efficiency: N/A
Efficacy: 128.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G4

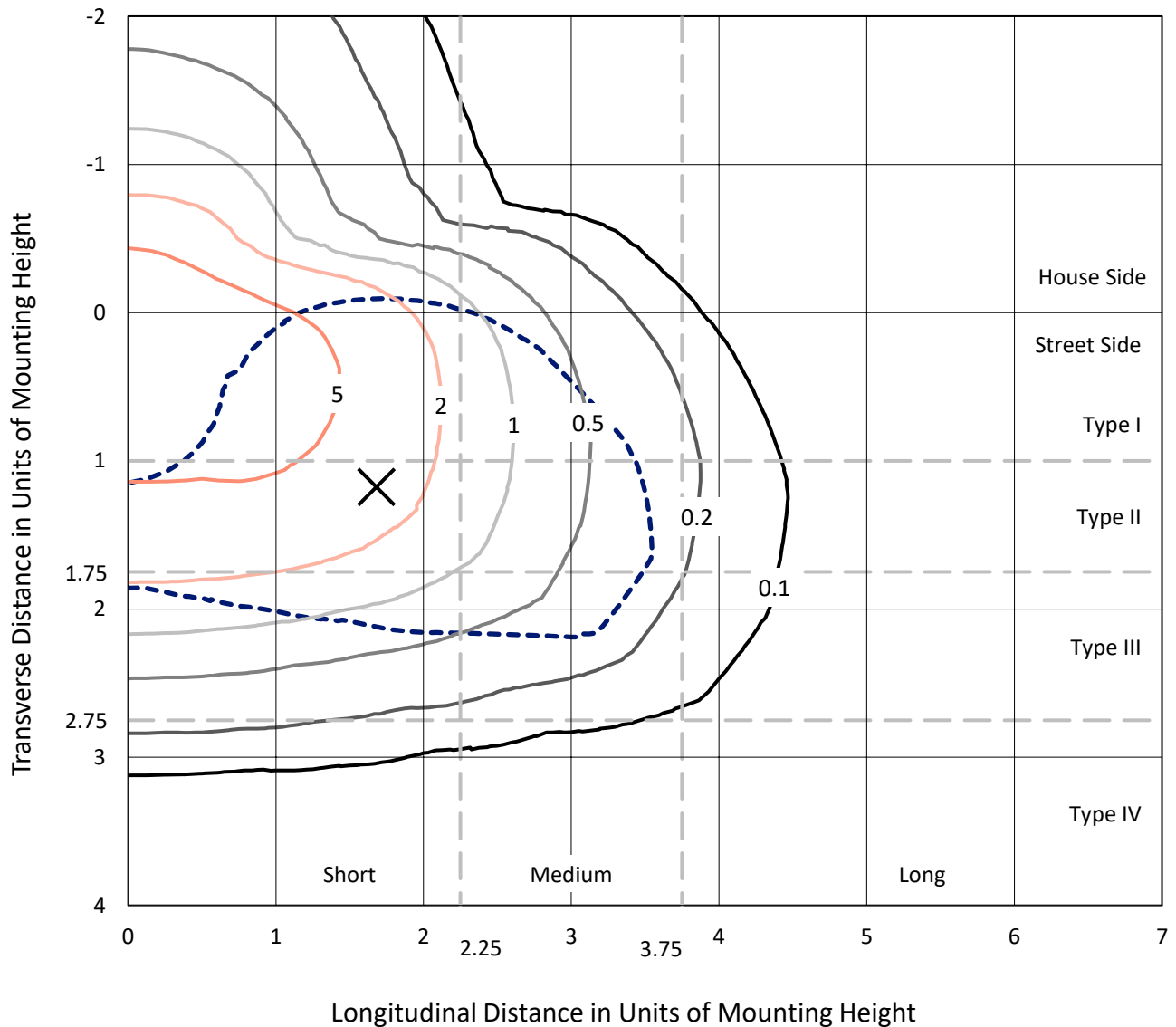
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P459260
 CATALOG NUMBER: GALN-SA7B-735-U-T3

Iso-Footcandle Lines of Horizontal Illumination

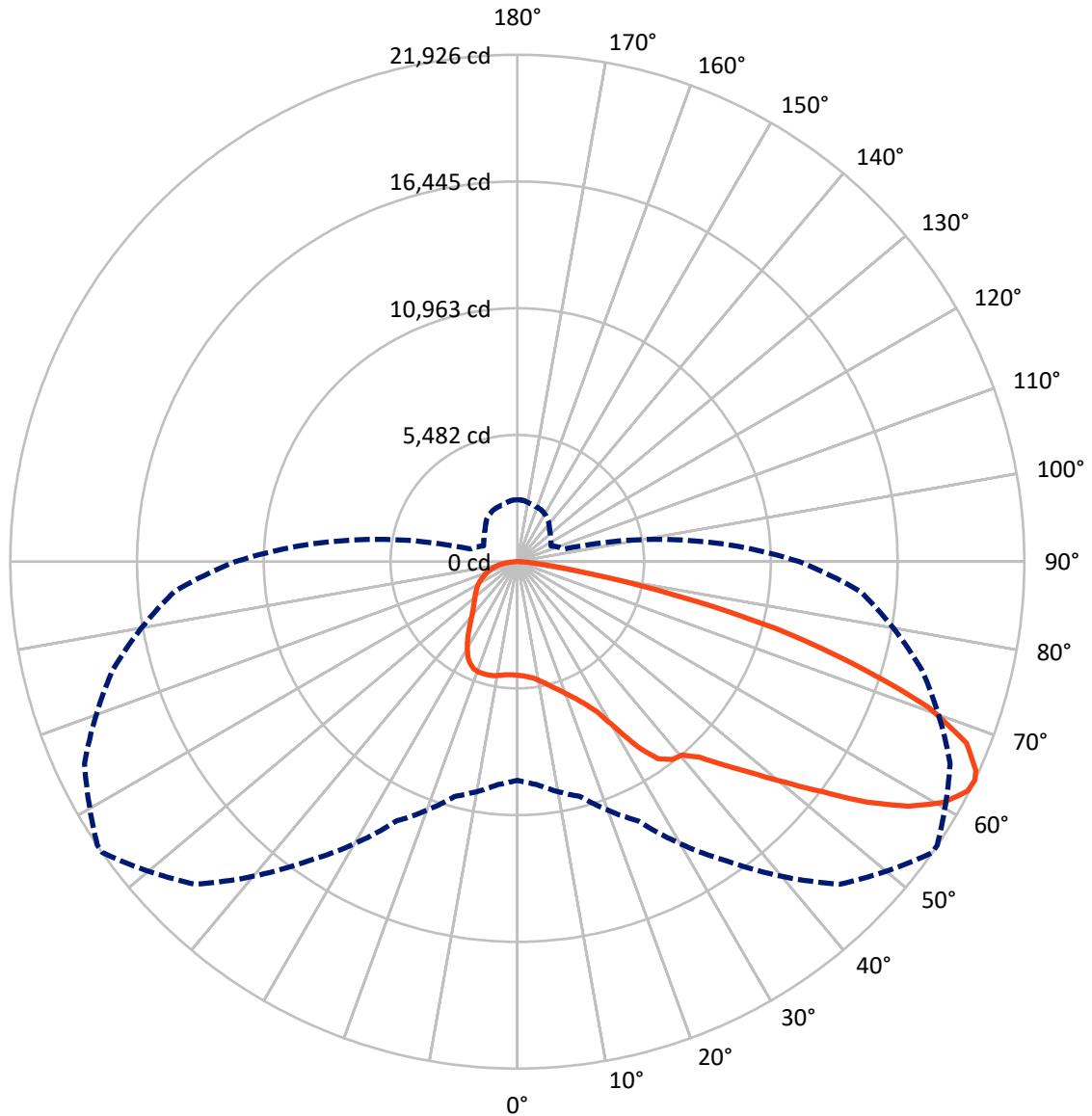
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - N/A

REPORT NUMBER: P459260
CATALOG NUMBER: GALN-SA7B-735-U-T3

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P459260

CATALOG NUMBER: GALN-SA7B-735-U-T3

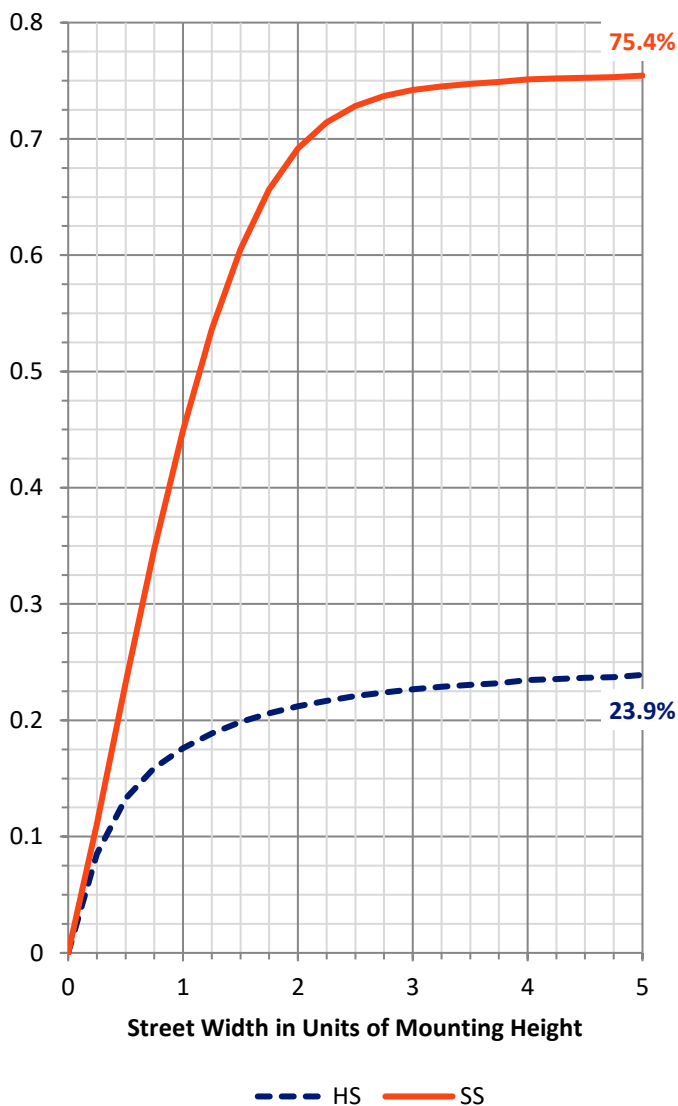
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8893.8	0.0	8893.8
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	27718.2	0.0	27718.2
	% Fixture	75.7	0.0	75.7
Total	Lumens	36612.0	0.0	36612.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	477.8	1.3
10°-20°	1507.7	4.1
20°-30°	2684.1	7.3
30°-40°	4129.8	11.3
40°-50°	5854.3	16.0
50°-60°	8473.9	23.1
60°-70°	8769.6	24.0
70°-80°	4106.8	11.2
80°-90°	608.0	1.7
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°	36612.0	100.0
0°-180°	36612.0	100.0

Coefficient of Utilization



REPORT NUMBER: P459260

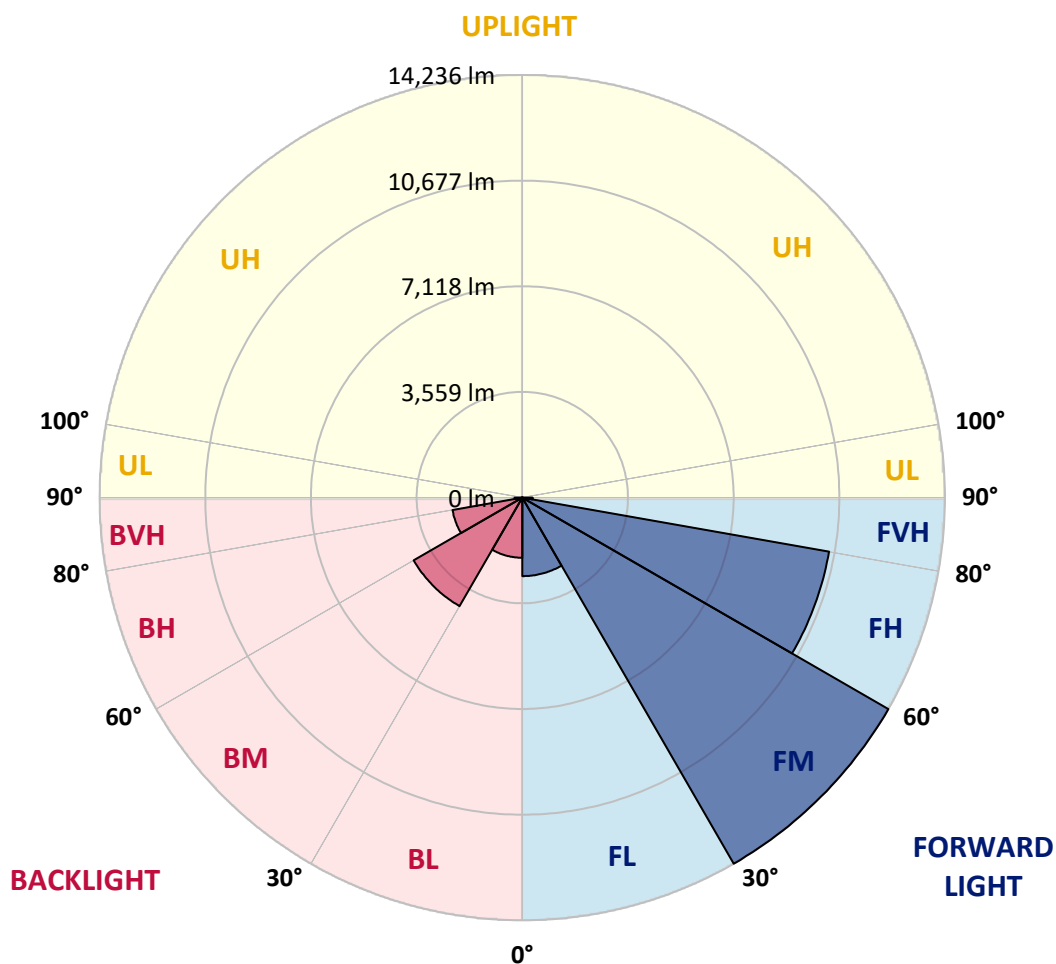
CATALOG NUMBER: GALN-SA7B-735-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2644.0	7.2			
FM	(30°-60°)	14235.7	38.9			
FH	(60°-80°)	10490.4	28.7			G4/12000
FVH	(80°-90°)	348.1	1.0			G3/500
BL	(0°-30°)	2025.7	5.5	B3/2500		
BM	(30°-60°)	4222.2	11.5	B3/5000		
BH	(60°-80°)	2386.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	259.9	0.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Short





REPORT NUMBER: P459260

CATALOG NUMBER: GALN-SA7B-735-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2
2.5°	4967.3	4965.3	4971.4	4965.3	4969.4	4955.1	4949.0	4953.0	4946.9	4936.7	4918.3
5°	5028.6	5026.5	5028.6	5020.4	5024.5	5016.3	5002.0	5006.1	4995.9	4973.4	4946.9
7.5°	5132.6	5124.5	5124.5	5122.4	5114.3	5102.0	5091.8	5087.7	5077.5	5049.0	5008.1
10°	5267.3	5267.3	5269.4	5253.0	5263.2	5240.8	5230.6	5228.6	5193.9	5157.1	5100.0
12.5°	5444.9	5455.1	5449.0	5440.8	5436.7	5428.5	5393.9	5402.0	5363.2	5300.0	5230.6
15°	5665.3	5681.6	5671.4	5667.3	5657.1	5626.5	5612.2	5606.1	5555.1	5463.2	5371.4
17.5°	5957.1	5936.7	5928.5	5918.3	5875.5	5853.0	5828.5	5824.5	5779.6	5671.4	5528.5
20°	6212.2	6240.8	6224.5	6214.3	6171.4	6128.5	6110.2	6104.1	6065.3	5946.9	5718.3
22.5°	6516.3	6522.4	6528.5	6504.1	6483.6	6451.0	6418.3	6408.1	6393.9	6271.4	5991.8
25°	6840.8	6865.3	6844.9	6820.4	6795.9	6793.9	6824.5	6820.4	6814.3	6695.9	6355.1
27.5°	7369.4	7391.8	7397.9	7371.4	7277.5	7285.7	7355.1	7377.5	7471.4	7275.5	6822.4
30°	7667.3	7689.8	7740.8	7840.8	7989.8	8120.4	8287.7	8338.7	8428.5	8059.2	7377.5
32.5°	7851.0	7859.2	7951.0	8136.7	8583.6	9071.4	9526.5	9544.9	9602.0	9083.6	7885.7
35°	8140.8	8146.9	8220.4	8424.5	8948.9	9761.2	10465.3	10487.7	10440.8	9402.0	8122.4
37.5°	8497.9	8514.3	8561.2	8730.6	9357.1	10338.7	10855.1	10838.7	10422.4	9655.1	8540.8
40°	9018.3	9018.3	8963.2	9191.8	9787.7	10669.3	10991.8	10963.2	10853.0	10387.7	9177.5
42.5°	9477.5	9469.4	9600.0	9755.1	10326.5	11179.5	11565.3	11612.2	11793.8	11308.1	9902.0
45°	10075.5	10112.2	10185.7	10467.3	11242.8	12051.0	12548.9	12593.8	12851.0	12391.8	10748.9
47.5°	10679.5	10691.8	10922.4	11297.9	12377.5	13232.6	13640.8	13714.2	13948.9	13659.1	11661.2
50°	11108.1	11224.4	11593.8	12185.7	13546.9	14673.4	14991.8	15079.5	15493.8	15038.7	12724.4
52.5°	11561.2	11675.5	12126.5	13028.5	14889.7	16146.9	16538.7	16597.9	17028.5	16434.6	13812.2
55°	11948.9	12055.1	12567.3	13775.5	15959.1	17651.0	18361.2	18291.8	18497.9	17510.1	14651.0
57.5°	12012.2	12097.9	12742.8	14253.0	16763.2	18940.7	19959.1	19999.9	19761.1	18314.2	15342.8
60°	11522.4	11697.9	12438.7	14202.0	17124.4	19838.7	21150.9	21179.5	20502.0	18726.5	15618.3
62.5°	10655.1	10636.7	11532.6	13381.6	16618.3	20042.8	21853.0	21822.4	20791.8	18528.5	15351.0
64°	9457.1	9677.5	10514.2	12373.4	15802.0	19728.5	21926.4	21910.1	20653.0	18116.3	14895.9
65°	8726.5	8714.3	9540.8	11548.9	14989.7	19255.0	21795.8	21773.4	20363.2	17746.9	14542.8
67.5°	6300.0	6328.5	7144.9	8912.2	12185.7	17404.0	20944.8	20861.1	19220.3	16522.4	13199.9
70°	3816.3	3832.6	4473.5	5912.2	8746.9	14069.3	18879.5	18883.6	17471.4	14693.8	11234.6
72.5°	2010.2	2053.1	2310.2	3357.1	5312.2	9871.4	15316.3	15679.5	14999.9	12540.8	8875.5
75°	1118.4	1124.5	1306.1	1655.1	2710.2	5524.5	11512.2	11616.3	11875.5	10093.8	6563.2
77.5°	853.1	865.3	922.4	1069.4	1475.5	2561.2	6967.3	7489.8	8369.4	7116.3	3744.9
80°	691.8	704.1	753.1	840.8	981.6	1214.3	3236.7	3518.4	4479.6	3159.2	1461.2
82.5°	538.8	530.6	593.9	651.0	714.3	718.4	1328.6	1469.4	1824.5	1359.2	632.7
85°	400.0	400.0	451.0	438.8	461.2	420.4	585.7	646.9	730.6	577.5	293.9
87.5°	159.2	175.5	295.9	265.3	206.1	165.3	216.3	228.6	253.1	226.5	122.4
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: P459260
 CATALOG NUMBER: GALN-SA7B-735-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2	4912.2
2.5°	4920.4	4926.5	4912.2	4902.0	4897.9	4891.8	4885.7	4887.7	4895.9	4904.1	4902.0
5°	4944.9	4946.9	4922.4	4910.2	4902.0	4893.9	4893.9	4900.0	4916.3	4928.6	4928.6
7.5°	5006.1	5006.1	4971.4	4949.0	4936.7	4922.4	4918.3	4920.4	4932.6	4949.0	4951.0
10°	5102.0	5093.9	5049.0	5014.3	4991.8	4957.1	4926.5	4910.2	4916.3	4926.5	4926.5
12.5°	5218.3	5195.9	5138.8	5091.8	5036.7	4971.4	4908.1	4875.5	4873.4	4883.7	4879.6
15°	5342.8	5318.3	5238.8	5153.0	5057.1	4961.2	4885.7	4838.8	4802.0	4791.8	4814.3
17.5°	5487.7	5436.7	5326.5	5208.1	5065.3	4940.8	4822.4	4726.5	4661.2	4642.8	4649.0
20°	5663.2	5595.9	5446.9	5261.2	5059.2	4867.3	4683.7	4555.1	4449.0	4416.3	4420.4
22.5°	5906.1	5789.8	5571.4	5287.7	5008.1	4728.6	4473.5	4306.1	4177.5	4126.5	4157.1
25°	6181.6	6055.1	5689.8	5281.6	4875.5	4506.1	4224.5	4006.1	3889.8	3814.3	3830.6
27.5°	6561.2	6336.7	5816.3	5226.5	4685.7	4234.7	3908.1	3702.0	3595.9	3557.1	3575.5
30°	7046.9	6702.0	5953.0	5077.5	4385.7	3891.8	3589.8	3455.1	3391.8	3342.8	3359.2
32.5°	7397.9	6959.2	5983.6	4826.5	4061.2	3579.6	3373.5	3273.5	3204.1	3157.1	3167.3
35°	7648.9	7177.5	5969.4	4518.3	3722.4	3322.4	3202.0	3120.4	3008.2	2906.1	2887.7
37.5°	7985.7	7451.0	5865.3	4181.6	3387.7	3149.0	3063.3	2912.2	2751.0	2614.3	2608.2
40°	8502.0	7771.4	5642.8	3785.7	3102.0	3020.4	2916.3	2720.4	2546.9	2436.7	2428.6
42.5°	9034.7	8067.3	5340.8	3369.4	2867.3	2885.7	2759.2	2565.3	2459.2	2387.7	2379.6
45°	9685.7	8387.7	5014.3	3008.2	2693.9	2759.2	2622.4	2510.2	2446.9	2400.0	2387.7
47.5°	10389.8	8716.3	4646.9	2683.7	2546.9	2642.8	2565.3	2514.3	2479.6	2446.9	2432.6
50°	11148.9	9083.6	4302.0	2422.4	2414.3	2522.4	2559.2	2540.8	2520.4	2510.2	2497.9
52.5°	11981.6	9459.1	4012.2	2238.8	2298.0	2436.7	2561.2	2575.5	2575.5	2569.4	2561.2
55°	12544.8	9720.4	3718.4	2089.8	2179.6	2367.3	2557.1	2612.2	2632.6	2624.5	2616.3
57.5°	12961.2	9863.2	3349.0	1961.2	2079.6	2300.0	2534.7	2616.3	2636.7	2646.9	2642.8
60°	13046.9	9730.6	2865.3	1826.5	1971.4	2202.0	2453.1	2555.1	2581.6	2644.9	2651.0
62.5°	12661.2	9322.4	2383.7	1693.9	1838.8	2053.1	2342.8	2485.7	2538.8	2636.7	2646.9
64°	12187.7	8865.3	2116.3	1610.2	1753.1	1969.4	2287.7	2467.3	2536.7	2667.3	2675.5
65°	11840.8	8532.6	1949.0	1557.1	1698.0	1914.3	2257.1	2473.5	2555.1	2714.3	2726.5
67.5°	10563.2	7387.7	1612.2	1432.6	1567.3	1820.4	2263.3	2524.5	2551.0	2732.6	2730.6
70°	8740.8	5881.6	1351.0	1318.4	1440.8	1744.9	2238.8	2442.8	2444.9	2565.3	2536.7
72.5°	6544.9	4346.9	1171.4	1200.0	1300.0	1565.3	2114.3	2332.6	2298.0	2314.3	2285.7
75°	4495.9	2875.5	1008.2	1073.5	1153.1	1383.7	1938.8	2118.4	2063.3	2042.8	2022.4
77.5°	2400.0	1589.8	838.8	949.0	1002.0	1195.9	1691.8	1865.3	1808.2	1728.6	1702.0
80°	971.4	749.0	675.5	785.7	816.3	963.3	1408.2	1516.3	1473.5	1334.7	1289.8
82.5°	487.8	449.0	530.6	618.4	620.4	687.8	1046.9	1149.0	1053.1	883.7	844.9
85°	255.1	263.3	365.3	434.7	383.7	371.4	628.6	695.9	638.8	555.1	500.0
87.5°	91.8	106.1	191.8	189.8	134.7	71.4	138.8	67.3	36.7	22.4	28.6
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)