

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: P531703

Luminaire Tested: **GALN-SA7A-730-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531703
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17642 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

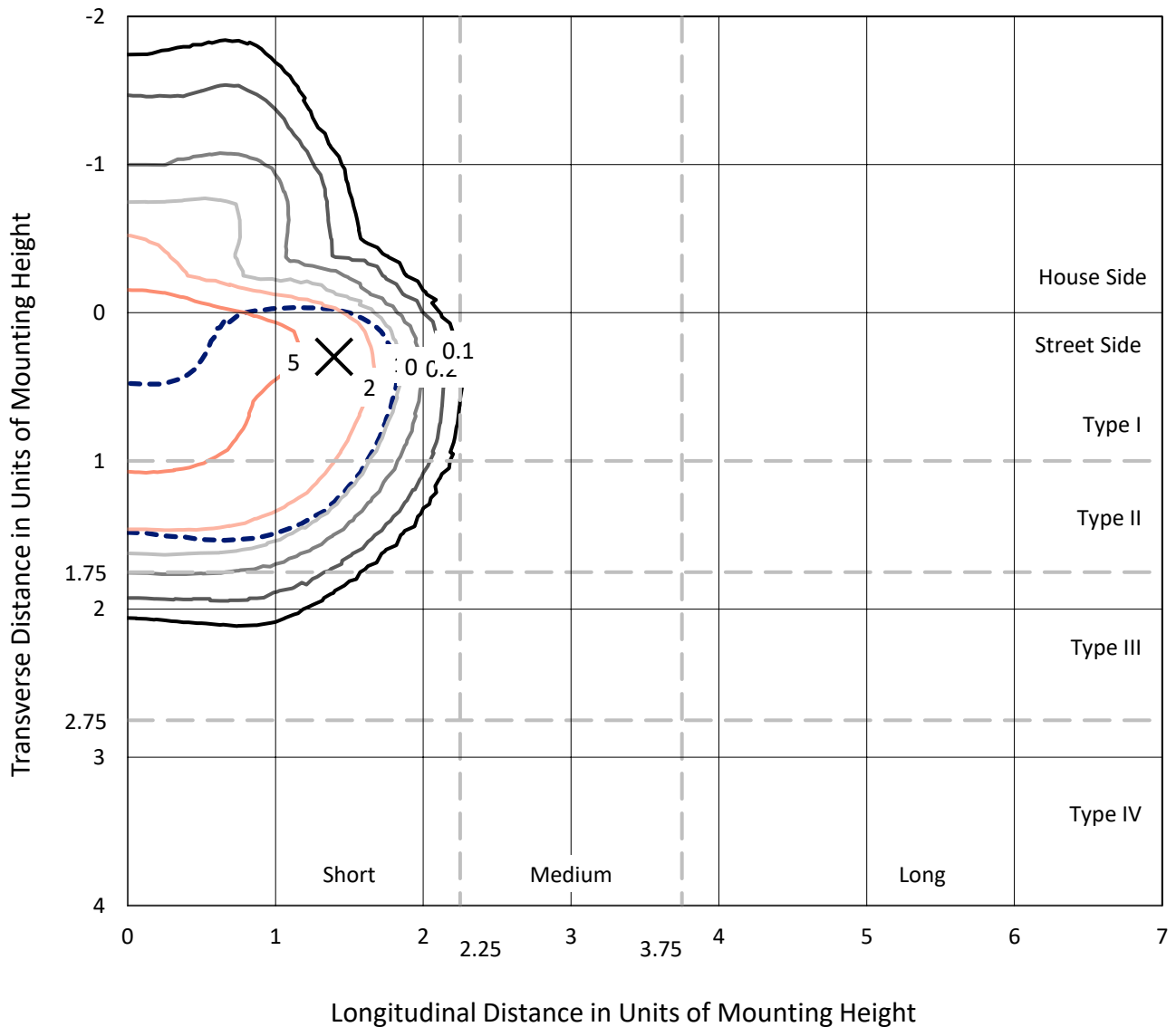
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

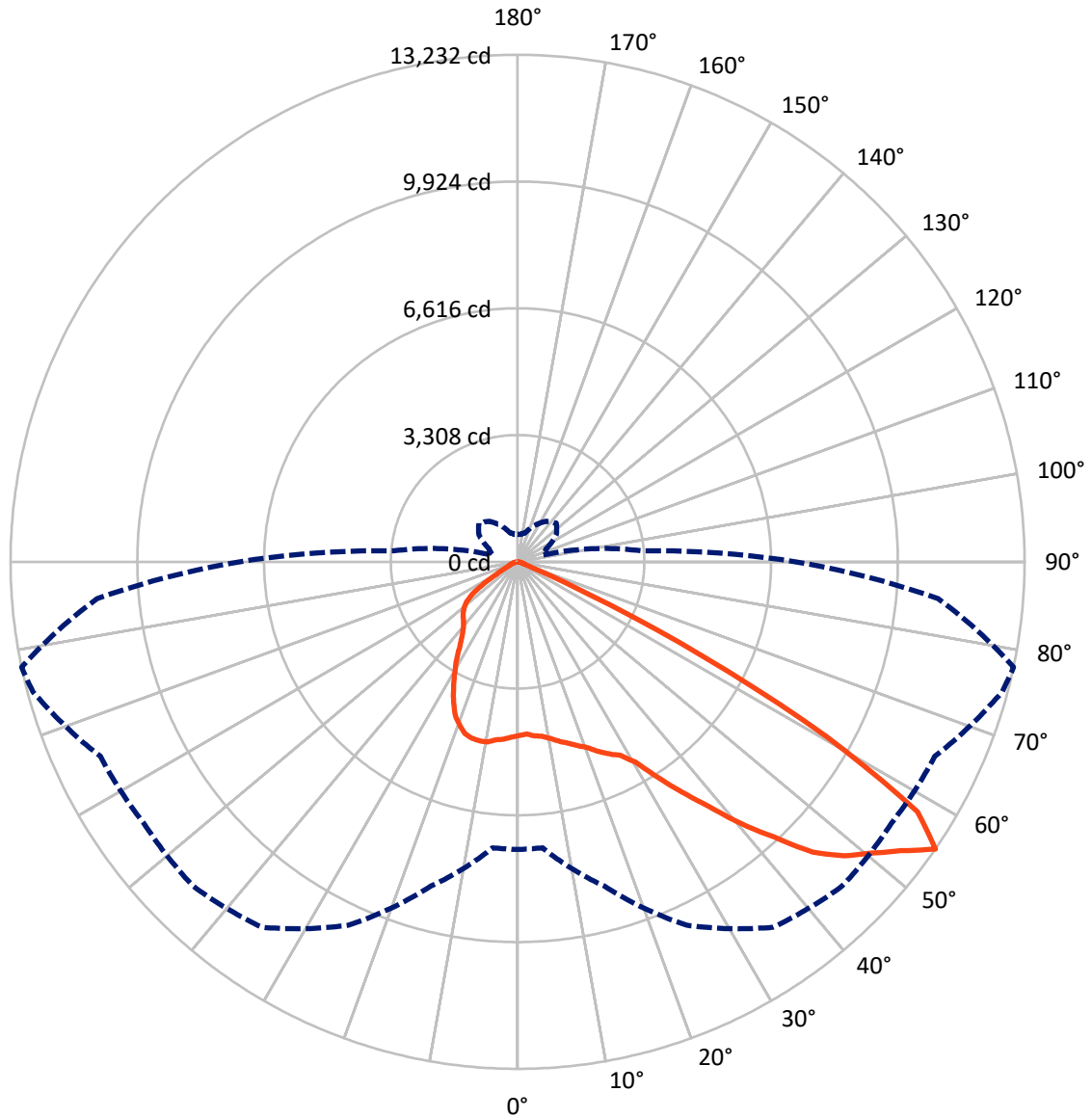
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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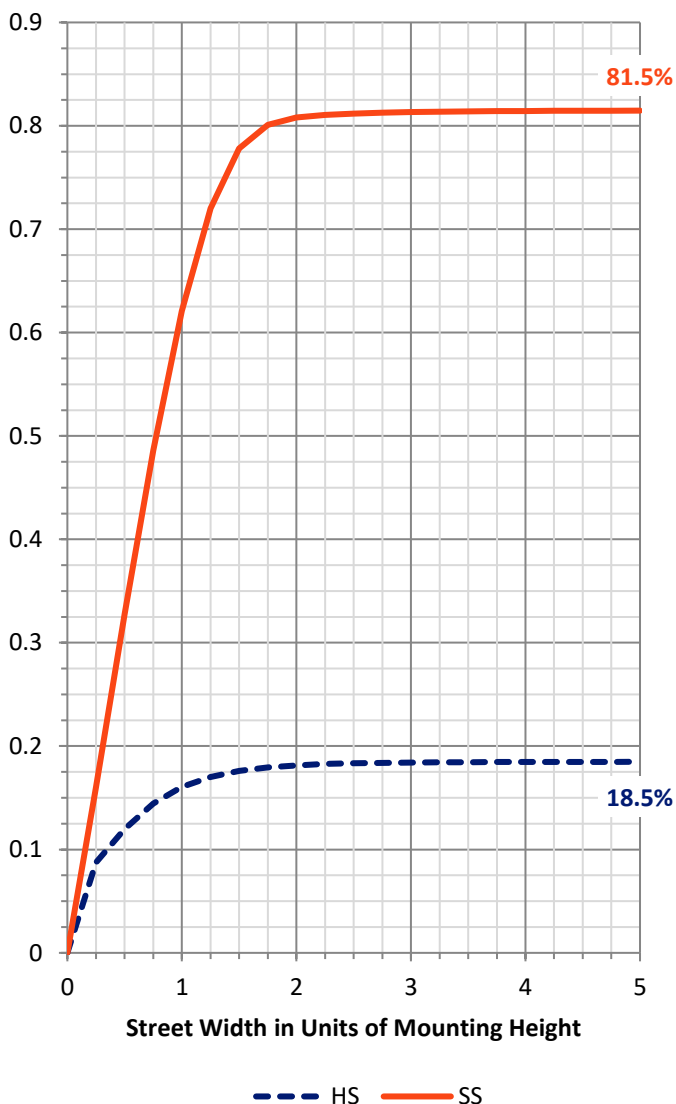
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3276.8	0.0	3276.8
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	14365.2	0.0	14365.2
	% Fixture	81.4	0.0	81.4
Total	Lumens	17642.0	0.0	17642.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.4	2.3
10°-20°	1070.4	6.1
20°-30°	1876.2	10.6
30°-40°	3093.6	17.5
40°-50°	4501.5	25.5
50°-60°	5100.7	28.9
60°-70°	1458.4	8.3
70°-80°	113.2	0.6
80°-90°	23.6	0.1
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°	17642.0	100.0
0°-180°	17642.0	100.0

Coefficient of Utilization



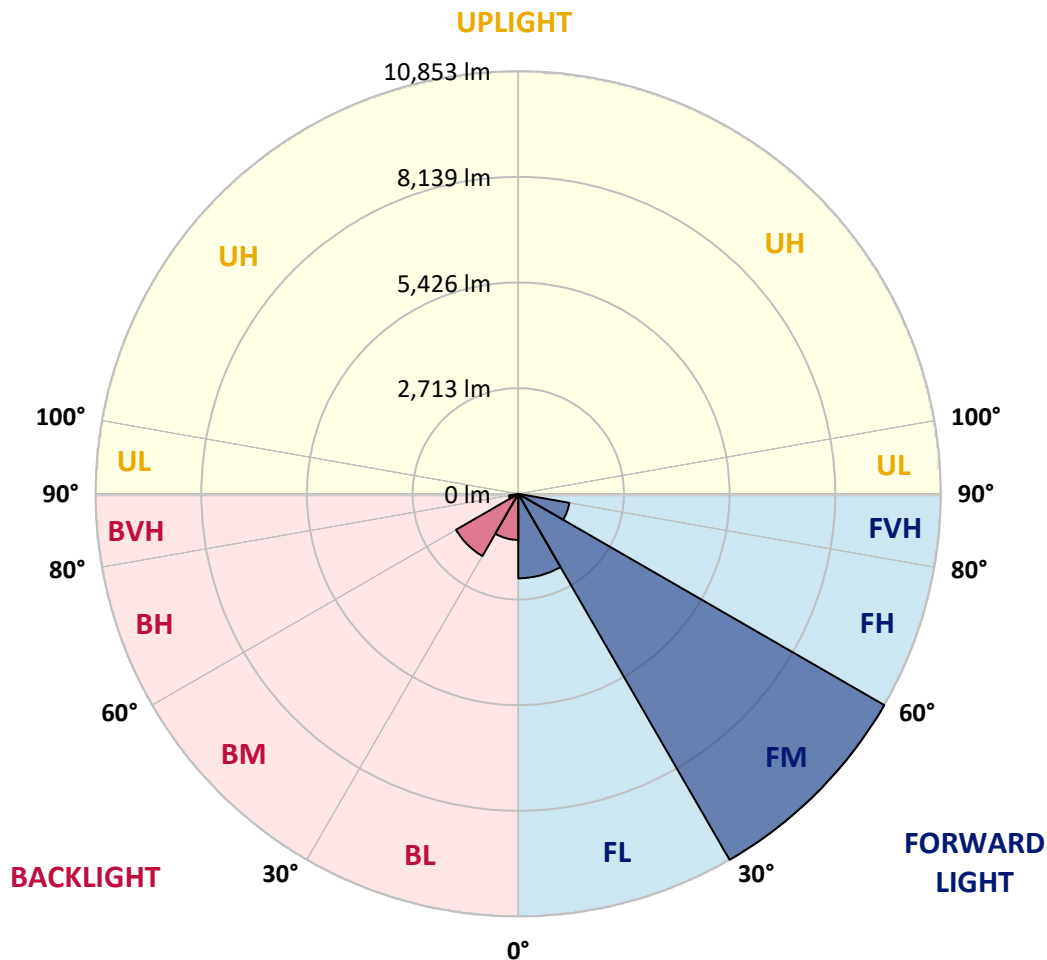
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2168.7	12.3			
FM (30°-60°)	10852.6	61.5			
FH (60°-80°)	1332.4	7.6			G1/1800
FVH (80°-90°)	11.5	0.1			G1/100
BL (0°-30°)	1182.3	6.7	B3/2500		
BM (30°-60°)	1843.2	10.4	B2/2500		
BH (60°-80°)	239.2	1.4	B1/500		G1/500
BVH (80°-90°)	12.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	4535.8	4535.8	4535.8	4535.8	4535.8	4535.8	4535.8	4535.8	4535.8	4535.8	4535.8
2.5°	4264.5	4305.5	4311.8	4362.3	4359.1	4444.3	4469.5	4472.7	4529.5	4501.1	4573.6
5°	4144.6	4122.6	4113.1	4201.4	4226.7	4302.4	4365.4	4403.3	4520.0	4561.0	4636.7
7.5°	4037.4	4037.4	4043.7	4122.6	4113.1	4210.9	4277.1	4393.8	4564.2	4598.9	4690.3
10°	3933.3	3895.5	3942.8	4024.8	4094.2	4138.3	4277.1	4387.5	4586.2	4687.2	4813.3
12.5°	3879.7	3898.6	3904.9	3964.9	4040.6	4173.0	4248.7	4431.7	4743.9	4803.9	4939.5
15°	4217.2	4179.3	4087.9	4034.2	4097.3	4160.4	4349.7	4535.8	4826.0	4911.1	5062.5
17.5°	4608.3	4576.8	4501.1	4356.0	4214.0	4330.7	4479.0	4649.3	4914.3	5040.4	5264.4
20°	5119.3	5068.8	4993.1	4709.3	4586.2	4460.1	4617.8	4819.6	5059.4	5172.9	5403.2
22.5°	5728.1	5728.1	5557.7	5213.9	4958.4	4838.6	4904.8	5021.5	5220.2	5374.8	5601.9
25°	6362.1	6343.1	6188.6	5832.2	5400.0	5258.1	5333.8	5415.8	5469.4	5554.6	5706.0
27.5°	7087.5	6977.1	6781.6	6387.3	6005.6	5731.2	5813.2	5740.7	5674.4	5718.6	5936.2
30°	7579.6	7649.0	7399.8	7021.3	6661.7	6355.8	6371.5	6308.4	6005.6	6068.7	6198.0
32.5°	8090.6	8134.7	7995.9	7787.8	7428.2	7071.8	6942.4	6888.8	6661.7	6690.1	6563.9
35°	8516.4	8601.6	8478.5	8387.1	8283.0	7995.9	7639.5	7813.0	7447.1	7377.7	7049.7
37.5°	8907.5	8882.3	9027.4	8932.8	8910.7	8708.8	8317.7	8352.4	8106.3	8090.6	7712.1
40°	9257.6	9263.9	9462.7	9506.8	9418.5	9058.9	8491.2	8765.6	8964.3	8983.2	8497.5
42.5°	9547.8	9633.0	9803.3	10159.7	10027.3	9428.0	8671.0	8970.6	9708.7	9825.4	9241.9
45°	9800.2	9973.6	10185.0	10503.6	10427.9	9951.6	9118.9	9393.3	10503.6	10809.5	9942.1
47.5°	9815.9	10043.0	10273.3	10746.4	10841.1	10232.3	9582.5	10062.0	11134.4	11465.6	10453.1
50°	9752.8	9872.7	10333.2	10847.4	11061.9	10689.7	10232.3	10623.4	11746.3	11954.5	10711.7
52.5°	9005.3	9096.8	10021.0	10942.0	11459.3	11206.9	11093.4	11405.7	12370.9	12525.4	10954.6
55°	7507.0	7491.3	8762.4	10465.7	11642.2	11973.4	11904.0	12014.4	13093.2	13232.0	11014.5
57.5°	5135.1	5422.1	6519.8	8715.1	10522.5	11793.6	11866.2	11683.2	12251.0	12304.6	9601.4
60°	2769.4	2889.3	3772.4	5816.4	8011.7	9610.9	9800.2	9469.0	9424.8	9273.4	6854.1
62.5°	1100.8	1160.8	1662.3	2879.8	4365.4	5841.6	6248.5	6112.9	5822.7	5425.3	3548.5
65°	523.6	561.5	826.4	1346.9	1936.7	2435.1	2842.0	2968.1	2189.0	1971.4	1170.2
67.5°	356.4	384.8	602.5	769.6	690.8	722.3	940.0	873.7	514.1	438.4	324.9
70°	271.3	290.2	482.6	523.6	309.1	217.6	242.9	227.1	211.3	214.5	211.3
72.5°	192.4	208.2	353.3	309.1	135.6	100.9	129.3	154.6	154.6	154.6	151.4
75°	116.7	132.5	205.0	119.9	53.6	53.6	82.0	104.1	110.4	113.6	107.2
77.5°	59.9	75.7	69.4	34.7	34.7	41.0	59.9	72.5	78.9	78.9	75.7
80°	12.6	12.6	12.6	18.9	34.7	44.2	59.9	66.2	75.7	75.7	69.4
82.5°	0.0	3.2	9.5	18.9	31.5	41.0	56.8	66.2	75.7	78.9	72.5
85°	0.0	3.2	6.3	12.6	22.1	25.2	22.1	18.9	18.9	18.9	18.9
87.5°	0.0	0.0	3.2	3.2	3.2	6.3	6.3	6.3	6.3	6.3	6.3
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°	4535.8	4535.8	4535.8	4535.8	4535.8	4535.8	4535.8	4535.8	4535.8	4535.8	4535.8
2.5°	4579.9	4589.4	4573.6	4570.5	4557.8	4595.7	4504.2	4482.1	4538.9	4485.3	4497.9
5°	4639.9	4661.9	4633.5	4586.2	4516.8	4409.6	4318.1	4198.3	4141.5	4100.5	4094.2
7.5°	4684.0	4699.8	4671.4	4520.0	4311.8	4040.6	3838.7	3690.4	3573.7	3539.0	3482.3
10°	4863.8	4867.0	4725.0	4390.7	3983.8	3627.4	3318.2	3091.1	2974.4	2901.9	2870.3
12.5°	4983.7	4977.4	4690.3	4135.2	3592.7	3119.5	2766.3	2491.8	2384.6	2349.9	2327.8
15°	5135.1	5100.4	4608.3	3873.4	3088.0	2577.0	2258.4	2069.2	2059.7	2037.6	2059.7
17.5°	5254.9	5157.1	4488.5	3397.1	2605.4	2122.8	1914.6	1927.2	1952.5	1974.5	1977.7
20°	5450.5	5248.6	4214.0	2980.7	2157.5	1820.0	1816.8	1873.6	1936.7	1961.9	1987.2
22.5°	5598.7	5286.5	3920.7	2536.0	1791.6	1697.0	1750.6	1835.8	1883.1	1908.3	1946.2
25°	5652.4	5182.4	3529.6	2091.2	1615.0	1640.2	1722.2	1779.0	1838.9	1867.3	1851.5
27.5°	5706.0	5128.8	3062.7	1722.2	1520.3	1602.3	1671.7	1728.5	1747.4	1785.3	1810.5
30°	5835.3	4942.7	2643.2	1488.8	1473.0	1577.1	1627.6	1646.5	1697.0	1719.0	1719.0
32.5°	5939.4	4870.1	2198.5	1378.4	1466.7	1589.7	1596.0	1596.0	1602.3	1586.6	1580.3
35°	6153.9	4620.9	1801.1	1312.2	1463.6	1592.9	1608.7	1555.0	1409.9	1353.2	1337.4
37.5°	6418.8	4460.1	1507.7	1296.4	1485.6	1630.7	1656.0	1454.1	1264.8	1173.4	1157.6
40°	6740.6	4346.5	1315.3	1290.1	1536.1	1719.0	1643.3	1375.2	1129.2	996.7	990.4
42.5°	7115.9	4242.4	1186.0	1286.9	1599.2	1810.5	1630.7	1309.0	990.4	902.1	914.7
45°	7415.6	4185.7	1097.7	1264.8	1621.3	1864.1	1640.2	1192.3	933.6	876.9	883.2
47.5°	7649.0	4065.8	1025.1	1227.0	1618.1	1883.1	1555.0	1145.0	905.3	921.0	936.8
50°	7655.3	3904.9	933.6	1145.0	1570.8	1848.4	1457.2	1100.8	899.0	965.2	996.7
52.5°	7570.1	3677.8	835.9	1028.3	1460.4	1728.5	1368.9	1081.9	870.6	864.3	902.1
55°	7267.3	3252.0	671.8	832.7	1233.3	1425.7	1290.1	1047.2	785.4	712.9	719.2
57.5°	5873.2	2331.0	495.2	596.1	873.7	1044.0	1163.9	1031.4	706.5	605.6	608.8
60°	3636.8	1321.6	362.7	406.9	539.4	634.0	943.1	958.9	630.8	511.0	504.7
62.5°	1867.3	652.9	280.7	287.0	331.2	372.2	646.6	804.3	570.9	485.7	485.7
65°	624.5	321.7	246.0	220.8	220.8	230.3	391.1	558.3	482.6	406.9	406.9
67.5°	268.1	239.7	214.5	192.4	176.6	167.2	220.8	324.9	359.6	309.1	296.5
70°	208.2	201.9	186.1	160.9	138.8	126.2	129.3	167.2	205.0	198.7	192.4
72.5°	154.6	154.6	148.2	126.2	107.2	91.5	85.2	88.3	97.8	100.9	104.1
75°	107.2	110.4	110.4	97.8	78.9	66.2	56.8	47.3	37.9	31.5	28.4
77.5°	72.5	75.7	82.0	72.5	59.9	44.2	34.7	25.2	15.8	6.3	6.3
80°	63.1	72.5	78.9	72.5	63.1	47.3	34.7	18.9	9.5	0.0	0.0
82.5°	66.2	72.5	82.0	69.4	59.9	44.2	34.7	22.1	9.5	3.2	0.0
85°	15.8	15.8	18.9	22.1	28.4	31.5	25.2	15.8	9.5	3.2	0.0
87.5°	6.3	6.3	6.3	6.3	6.3	3.2	3.2	3.2	3.2	0.0	0.0
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)