

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: P528176

Luminaire Tested: **GALN-SA3B-730-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528176  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3B-730-U-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13959 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

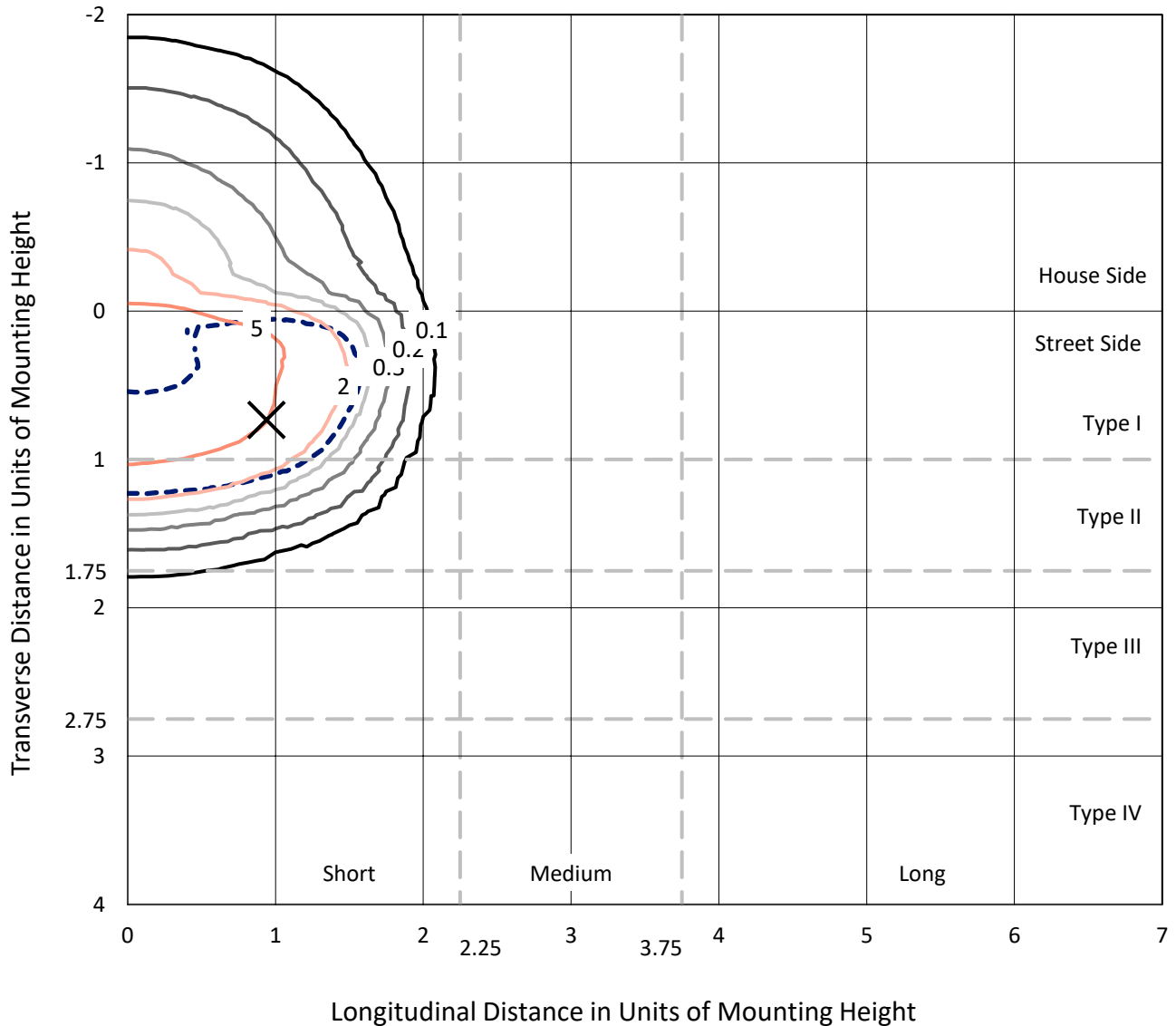
Input Watts (W): 121  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P528176  
 CATALOG NUMBER: GALN-SA3B-730-U-AFL-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

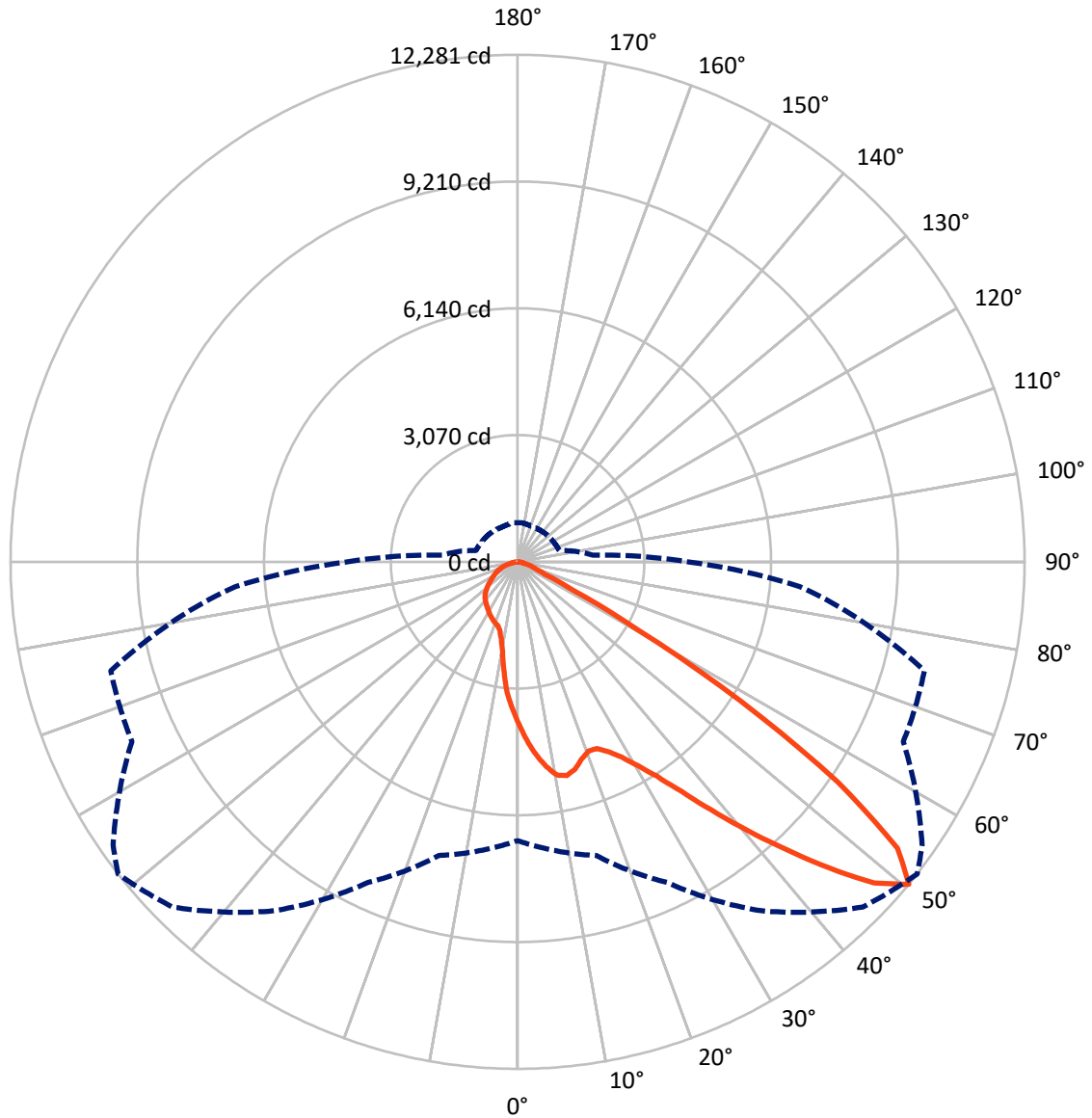
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc  
 Type II - Short - N/A

REPORT NUMBER: P528176  
CATALOG NUMBER: GALN-SA3B-730-U-AFL-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

REPORT NUMBER: P528176  
 CATALOG NUMBER: GALN-SA3B-730-U-AFL-GRSWH

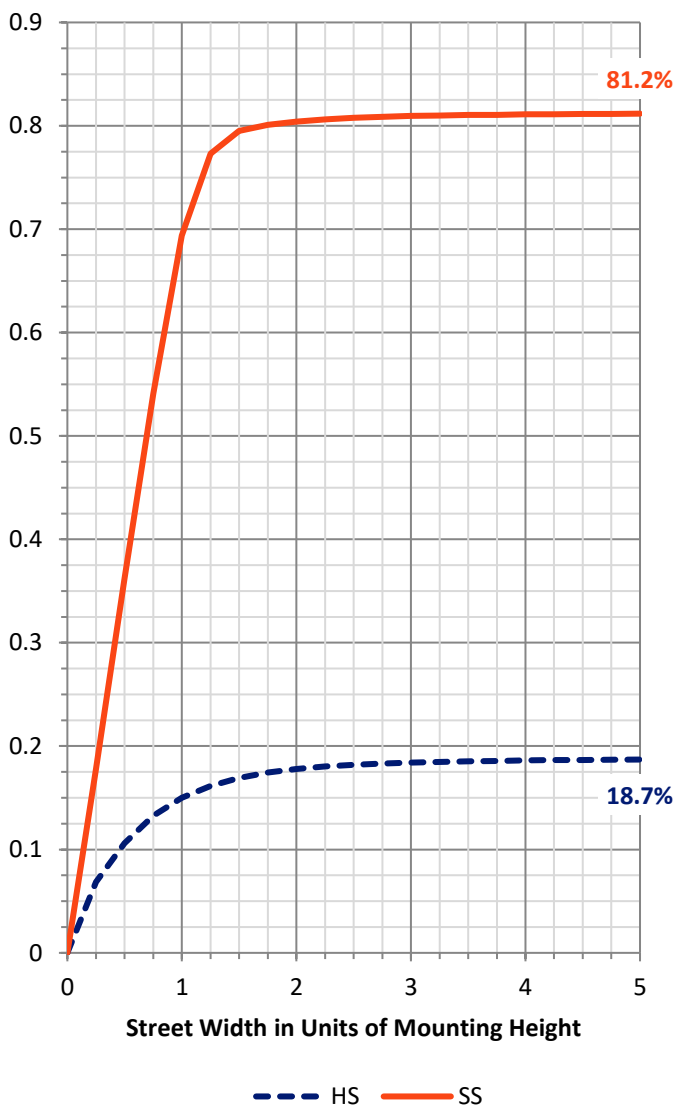
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2624.0	0.0	2624.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	11335.0	0.0	11335.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	13959.0	0.0	13959.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	362.7	2.6
10°-20°	972.0	7.0
20°-30°	1637.4	11.7
30°-40°	2747.7	19.7
40°-50°	4203.2	30.1
50°-60°	3064.5	22.0
60°-70°	682.0	4.9
70°-80°	246.0	1.8
80°-90°	43.5	0.3
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°	13959.0	100.0
0°-180°	13959.0	100.0

**Coefficient of Utilization**

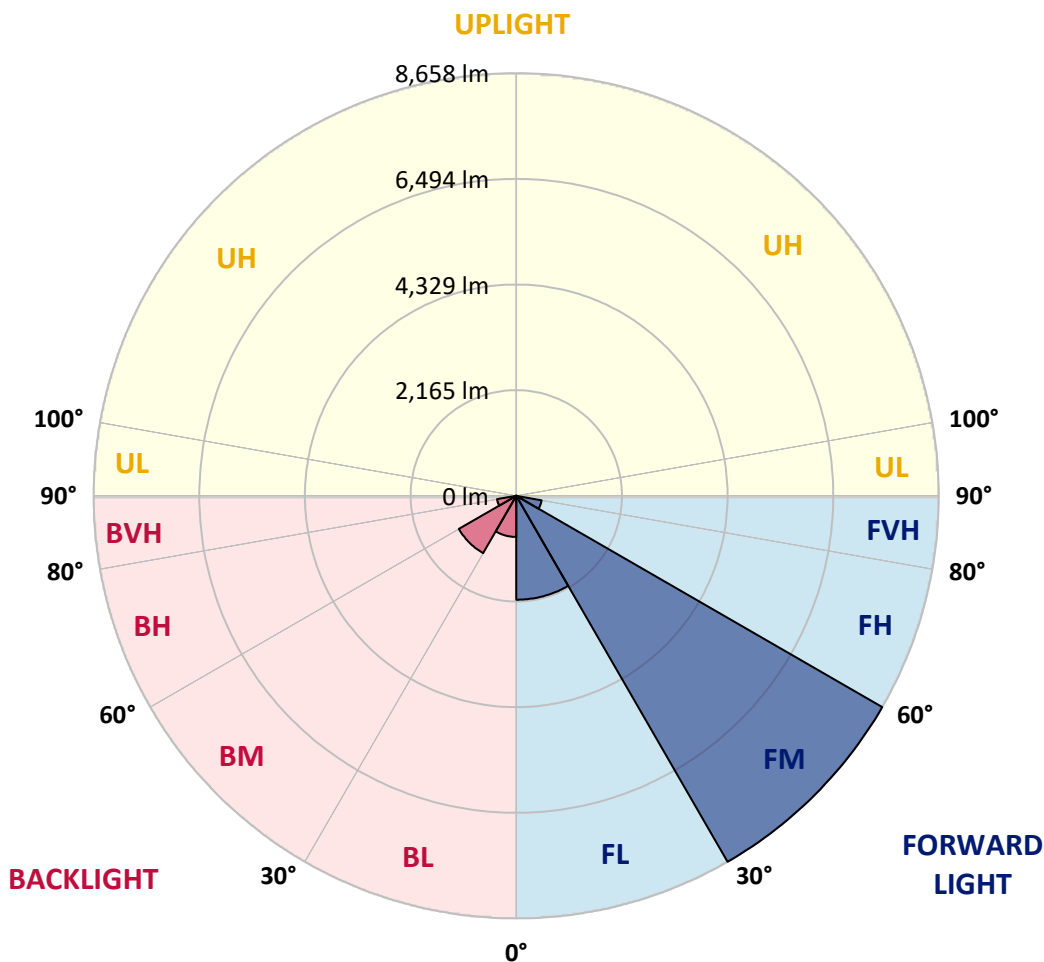


REPORT NUMBER: P528176  
 CATALOG NUMBER: GALN-SA3B-730-U-AFL-GRSWH

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2129.2	15.3			
FM (30°-60°)	8658.1	62.0			
FH (60°-80°)	528.2	3.8			G0/660
FVH (80°-90°)	19.5	0.1			G1/100
BL (0°-30°)	842.9	6.0	B2/1000		
BM (30°-60°)	1357.3	9.7	B2/2500		
BH (60°-80°)	399.8	2.9	B1/500		G1/500
BVH (80°-90°)	24.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





REPORT NUMBER: P528176

CATALOG NUMBER: GALN-SA3B-730-U-AFL-GRSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8
2.5°	4632.9	4543.8	4553.9	4490.0	4421.0	4400.8	4330.1	4262.9	4212.4	4104.7	4005.5
5°	5063.6	5036.7	4996.3	4945.9	4893.7	4765.8	4693.5	4609.4	4424.3	4257.8	4092.9
7.5°	5125.9	5120.8	5142.7	5142.7	5161.2	5112.4	5009.8	4950.9	4754.1	4483.2	4177.1
10°	4688.5	4703.6	4809.6	4947.5	5139.3	5272.2	5255.4	5240.2	5024.9	4654.8	4276.3
12.5°	4340.2	4306.6	4368.8	4486.6	4774.3	5095.6	5312.6	5314.3	5258.8	4929.0	4348.6
15°	4143.4	4167.0	4183.8	4239.3	4456.3	4828.1	5210.0	5322.7	5566.6	5122.5	4463.0
17.5°	4269.6	4190.5	4187.1	4200.6	4311.6	4590.9	5019.9	5213.3	5734.8	5371.5	4604.4
20°	4434.4	4432.8	4385.7	4368.8	4367.2	4616.1	4895.4	5157.8	5824.0	5694.5	4747.3
22.5°	4723.8	4723.8	4646.4	4609.4	4530.3	4733.9	4912.2	5090.5	5972.0	5916.5	4816.3
25°	5208.3	5129.2	4996.3	4905.5	4860.1	4932.4	5090.5	5250.3	6101.6	6152.0	4959.3
27.5°	5655.8	5531.3	5465.7	5309.2	5248.7	5206.6	5351.3	5512.8	6253.0	6518.8	5036.7
30°	6163.8	6141.9	6024.2	5822.3	5672.6	5595.2	5728.1	5887.9	6530.5	6893.9	5215.0
32.5°	7072.2	6873.7	6713.9	6466.6	6222.7	6057.8	6189.0	6295.0	6991.5	7285.9	5410.2
35°	8053.0	7989.1	7713.2	7267.4	6893.9	6745.9	6823.3	6902.3	7528.1	7884.8	5738.2
37.5°	9016.9	8929.4	8702.3	8327.2	7873.0	7571.9	7627.4	7719.9	8130.4	8692.2	6138.6
40°	9710.0	9602.4	9488.0	9432.4	8981.6	8569.4	8537.5	8561.0	8944.6	9449.3	6582.7
42.5°	9760.5	9893.4	9928.7	10152.5	10046.5	9708.3	9511.5	9516.6	9721.8	10197.9	7031.9
45°	9654.5	9531.7	9792.4	10403.1	10753.0	10911.2	10579.7	10537.7	10202.9	10631.9	7255.6
47.5°	8542.5	8576.2	9016.9	9982.5	10993.6	11700.1	11622.7	11483.1	10460.3	10616.8	7220.3
50°	6752.6	6956.2	7364.9	8567.8	10320.7	11824.6	12280.5	11957.5	10307.2	10199.6	6860.3
52.5°	4496.7	4580.8	4850.0	6402.7	8298.6	10569.7	11523.5	11597.5	10165.9	9652.8	6404.4
55°	2001.9	1995.2	2373.7	3344.3	5206.6	8042.9	9415.6	9866.5	9622.5	9096.0	5960.3
57.5°	847.9	876.5	1031.2	1445.1	2560.4	4853.3	6379.1	6774.5	7400.3	7469.2	4572.4
60°	573.7	577.0	619.1	723.4	1071.6	2279.5	3346.0	3820.4	4267.9	4237.6	2425.8
62.5°	450.8	462.6	494.6	536.6	635.9	1034.6	1497.2	1761.3	1789.9	1505.6	920.2
65°	385.2	386.9	418.9	454.2	497.9	602.2	721.7	735.1	743.6	716.6	676.3
67.5°	317.9	321.3	346.5	386.9	427.3	460.9	494.6	511.4	550.1	625.8	615.7
70°	252.3	257.4	279.3	312.9	349.9	370.1	412.2	427.3	462.6	521.5	545.1
72.5°	191.8	193.5	212.0	235.5	269.2	289.3	324.7	341.5	365.1	415.5	437.4
75°	137.9	143.0	156.5	168.2	173.3	186.7	220.4	238.9	272.5	294.4	296.1
77.5°	72.3	75.7	79.1	79.1	95.9	121.1	143.0	153.1	176.6	193.5	185.0
80°	28.6	30.3	38.7	52.2	67.3	87.5	102.6	107.7	127.9	137.9	143.0
82.5°	16.8	18.5	25.2	37.0	48.8	62.2	74.0	79.1	92.5	104.3	107.7
85°	8.4	10.1	15.1	23.6	32.0	38.7	37.0	35.3	35.3	33.6	35.3
87.5°	3.4	3.4	5.0	5.0	5.0	6.7	8.4	8.4	8.4	10.1	10.1
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: P528176

CATALOG NUMBER: GALN-SA3B-730-U-AFL-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8	3934.8
2.5°	3939.9	3872.6	3810.3	3695.9	3571.4	3536.1	3391.4	3339.3	3302.3	3258.5	3245.1
5°	3960.0	3870.9	3670.7	3440.2	3256.9	3021.3	2866.6	2700.0	2578.9	2548.6	2540.2
7.5°	4002.1	3849.0	3504.2	3155.9	2780.8	2461.1	2217.2	2086.0	1969.9	1963.2	1951.4
10°	4049.2	3783.4	3322.5	2775.7	2296.3	2000.2	1853.9	1796.7	1768.1	1761.3	1758.0
12.5°	4087.9	3769.9	3118.9	2405.6	1953.1	1774.8	1731.0	1726.0	1737.8	1741.1	1747.9
15°	4104.7	3716.1	2873.3	2074.2	1739.5	1673.9	1692.4	1712.5	1721.0	1742.8	1726.0
17.5°	4136.7	3647.1	2570.5	1811.8	1620.0	1631.8	1663.8	1687.3	1700.8	1715.9	1694.0
20°	4153.5	3584.9	2286.2	1655.3	1578.0	1599.8	1643.6	1662.1	1678.9	1685.6	1660.4
22.5°	4138.4	3457.0	2035.5	1529.2	1537.6	1566.2	1604.9	1625.1	1615.0	1588.1	1572.9
25°	4098.0	3277.0	1774.8	1448.4	1480.4	1530.9	1561.1	1546.0	1527.5	1512.4	1507.3
27.5°	4096.3	3056.7	1586.4	1374.4	1431.6	1500.6	1490.5	1477.0	1485.4	1473.7	1460.2
30°	4104.7	2843.0	1431.6	1332.4	1396.3	1429.9	1441.7	1428.2	1438.3	1416.5	1423.2
32.5°	4061.0	2634.4	1330.7	1283.6	1354.2	1352.5	1391.2	1401.3	1377.8	1332.4	1339.1
35°	4079.5	2466.2	1244.9	1261.7	1307.1	1307.1	1337.4	1325.6	1263.4	1236.5	1243.2
37.5°	4207.3	2301.3	1202.8	1231.4	1261.7	1275.2	1265.1	1214.6	1199.5	1199.5	1202.8
40°	4328.5	2160.0	1177.6	1224.7	1219.6	1228.1	1154.0	1159.1	1159.1	1160.8	1152.3
42.5°	4436.1	2064.1	1157.4	1184.3	1192.7	1149.0	1103.6	1098.5	1110.3	1108.6	1101.9
45°	4474.8	1985.1	1128.8	1138.9	1145.6	1073.3	1051.4	1041.3	1054.8	1059.8	1066.6
47.5°	4326.8	1919.5	1096.8	1076.6	1063.2	1016.1	987.5	969.0	985.8	1014.4	1021.1
50°	4136.7	1833.7	1046.4	1007.7	979.1	958.9	938.7	920.2	932.0	952.2	947.1
52.5°	3855.7	1699.1	982.4	942.1	893.3	898.3	879.8	869.7	876.5	876.5	871.4
55°	3455.4	1396.3	874.8	846.2	805.8	819.3	822.6	809.2	795.7	807.5	797.4
57.5°	2358.5	985.8	780.6	780.6	740.2	758.7	757.0	725.1	693.1	696.5	689.7
60°	1364.3	785.6	720.0	713.3	671.2	686.4	689.7	667.9	619.1	622.4	615.7
62.5°	775.5	671.2	629.2	619.1	610.7	624.1	624.1	595.5	553.5	556.8	550.1
65°	659.4	622.4	561.9	560.2	556.8	560.2	546.7	516.5	479.4	464.3	466.0
67.5°	598.9	575.3	516.5	501.3	491.2	489.5	464.3	435.7	418.9	405.4	403.7
70°	524.9	506.4	462.6	442.4	432.3	408.8	383.6	365.1	341.5	334.8	341.5
72.5°	415.5	413.8	397.0	375.1	353.3	334.8	312.9	287.7	265.8	260.8	249.0
75°	287.7	291.0	294.4	291.0	272.5	249.0	223.7	203.6	176.6	161.5	158.1
77.5°	188.4	193.5	198.5	191.8	180.0	158.1	141.3	116.1	95.9	84.1	82.4
80°	137.9	144.7	148.0	143.0	129.5	112.7	94.2	74.0	58.9	48.8	48.8
82.5°	106.0	112.7	116.1	107.7	94.2	80.7	67.3	52.2	40.4	32.0	30.3
85°	37.0	35.3	42.1	43.7	52.2	48.8	40.4	30.3	23.6	16.8	15.1
87.5°	10.1	10.1	11.8	11.8	10.1	8.4	8.4	8.4	6.7	5.0	5.0
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)