

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: P453935

Luminaire Tested: **GALN-SA5A-730-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P453935  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA5A-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 21061 lumens  
Efficiency: N/A  
Efficacy: 136.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

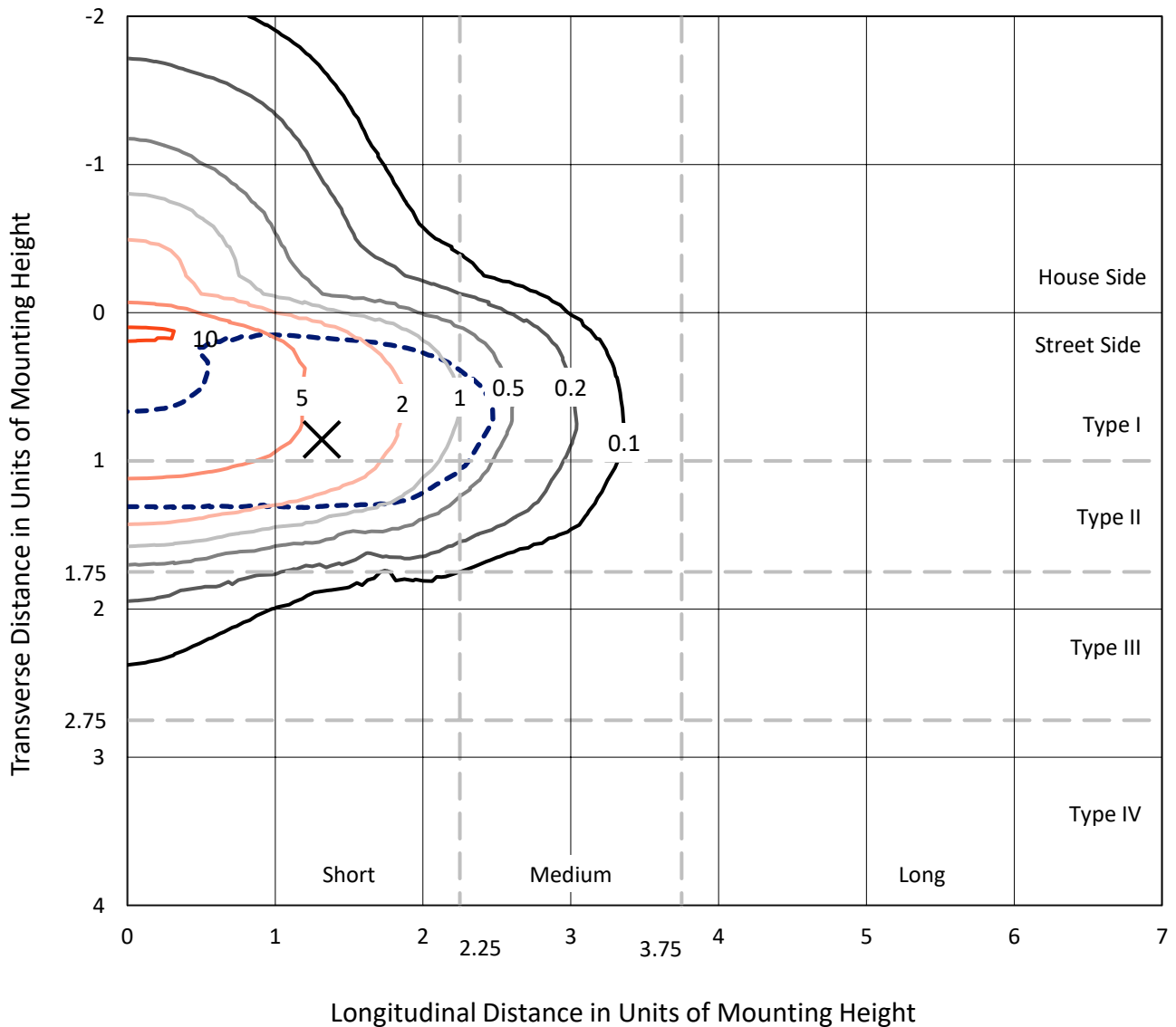
Input Watts (W): 154  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P453935  
 CATALOG NUMBER: GALN-SA5A-730-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

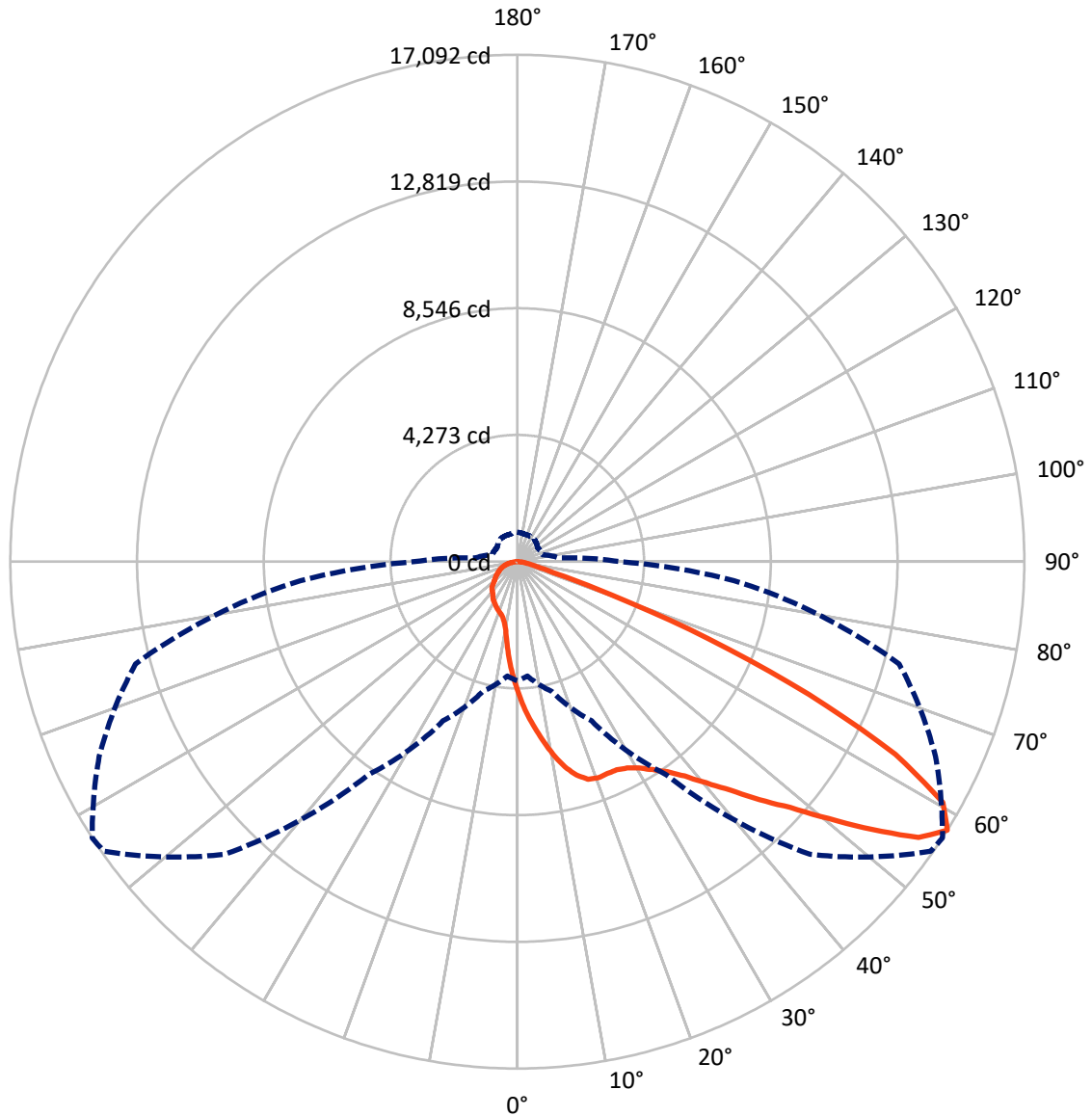
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - N/A

REPORT NUMBER: P453935  
CATALOG NUMBER: GALN-SA5A-730-U-AFL

### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

REPORT NUMBER: P453935

CATALOG NUMBER: GALN-SA5A-730-U-AFL

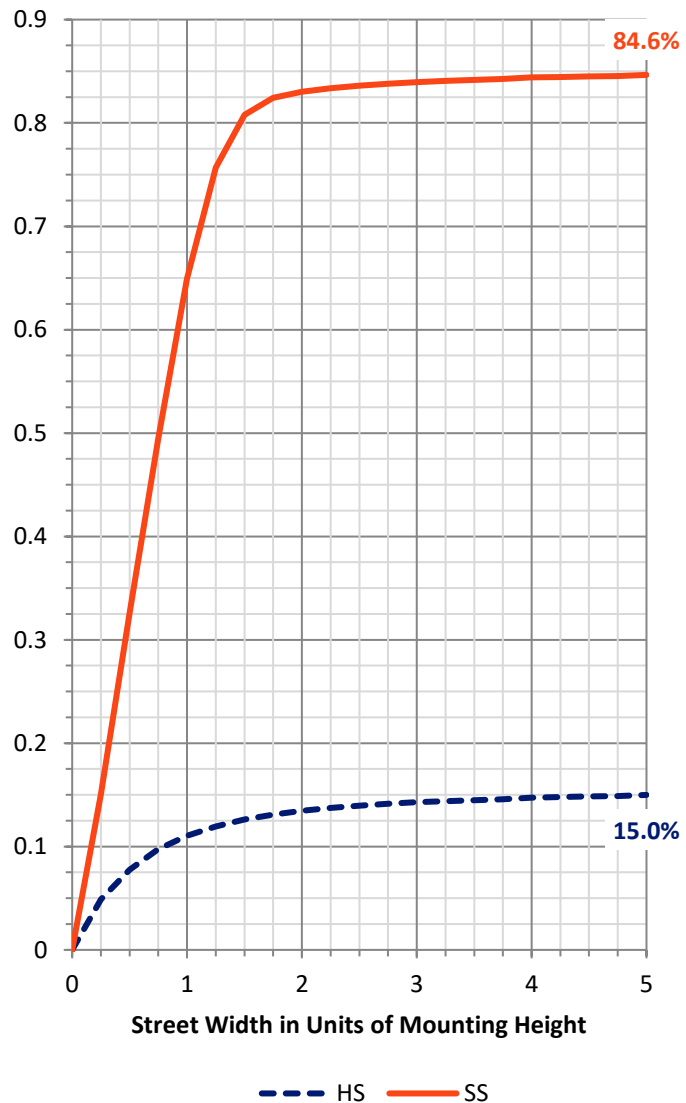
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3202.8	0.0	3202.8
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	17858.2	0.0	17858.2
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	21061.0	0.0	21061.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	425.3	2.0
10°-20°	1253.3	6.0
20°-30°	2081.0	9.9
30°-40°	3134.7	14.9
40°-50°	4706.4	22.3
50°-60°	5275.3	25.0
60°-70°	3087.3	14.7
70°-80°	913.2	4.3
80°-90°	184.6	0.9
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°	21061.0	100.0
0°-180°	21061.0	100.0



REPORT NUMBER: P453935

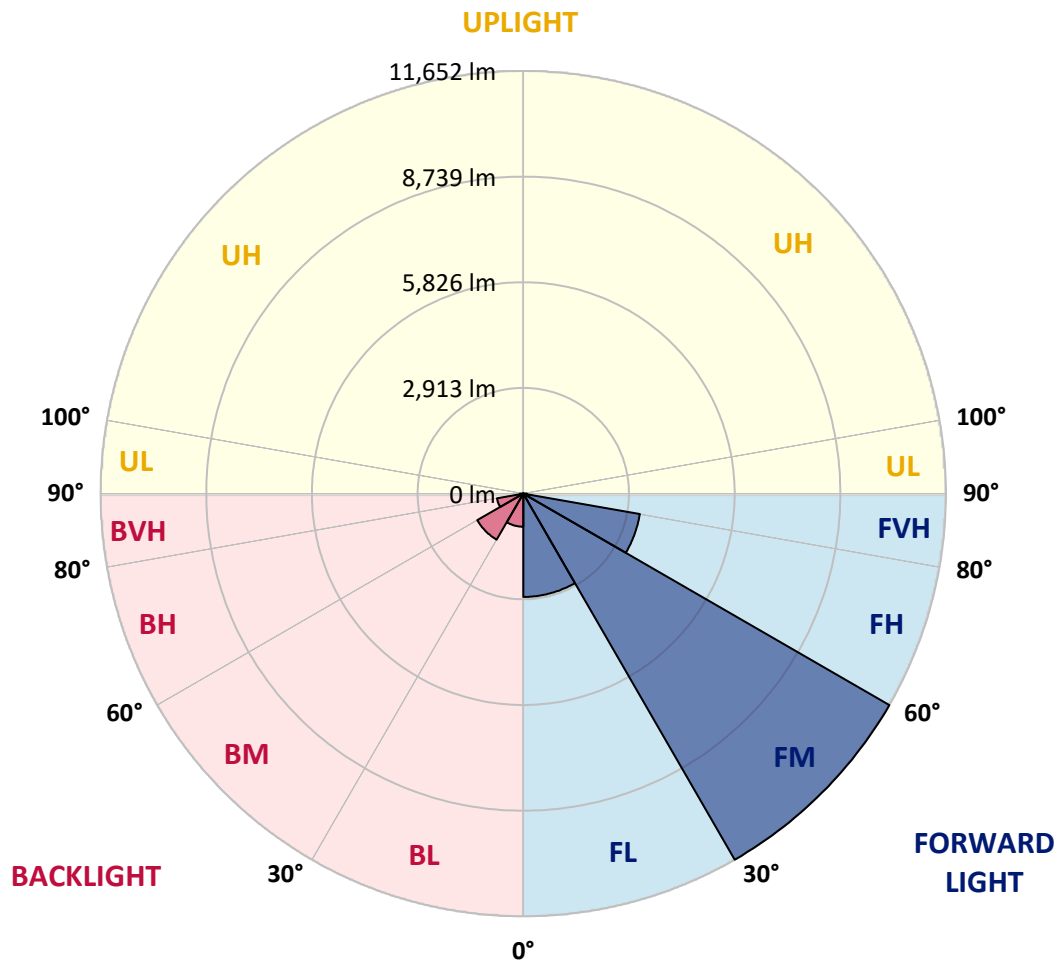
CATALOG NUMBER: GALN-SA5A-730-U-AFL

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2847.0	13.5			
FM	(30°-60°)	11651.9	55.3			
FH	(60°-80°)	3263.6	15.5			G2/5000
FVH	(80°-90°)	95.8	0.5			G1/100
BL	(0°-30°)	912.6	4.3	B2/1000		
BM	(30°-60°)	1464.4	7.0	B2/2500		
BH	(60°-80°)	736.9	3.5	B2/1000		G2/1000
BVH	(80°-90°)	88.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





REPORT NUMBER: P453935

CATALOG NUMBER: GALN-SA5A-730-U-AFL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	4424.7	4424.7	4424.7	4424.7	4424.7	4424.7	4424.7	4424.7	4424.7	4424.7	4424.7
2.5°	5498.0	5438.0	5390.8	5349.3	5295.1	5148.7	5002.3	5000.0	4883.5	4703.7	4519.2
5°	6393.8	6313.1	6323.4	6194.3	6065.2	5853.1	5542.9	5526.8	5278.9	4942.3	4599.9
7.5°	6977.1	6978.3	6946.0	6872.2	6732.7	6491.8	6140.1	6060.6	5715.9	5205.2	4692.1
10°	6947.1	6978.3	7032.4	7095.9	7138.5	7019.8	6699.3	6602.4	6154.0	5523.4	4794.7
12.5°	6548.2	6596.7	6673.9	6833.0	7090.1	7286.1	7176.6	7098.2	6661.2	5840.4	4907.7
15°	6299.2	6328.0	6370.7	6477.9	6754.6	7223.8	7507.4	7465.9	7139.7	6198.9	5034.5
17.5°	6223.1	6252.0	6265.8	6331.5	6528.6	7009.4	7637.7	7711.5	7563.9	6528.6	5162.5
20°	6299.2	6313.1	6313.1	6352.3	6506.7	6883.7	7631.9	7780.6	7912.1	6924.1	5282.4
22.5°	6498.7	6504.4	6496.4	6510.2	6625.5	6918.3	7577.7	7762.2	8193.4	7259.6	5375.8
25°	6822.6	6831.8	6778.8	6746.5	6830.7	7070.5	7607.7	7777.2	8413.6	7580.1	5438.0
27.5°	7190.4	7201.9	7137.4	7062.4	7101.6	7258.4	7725.3	7877.5	8578.4	7895.9	5477.2
30°	7641.2	7645.8	7537.4	7447.5	7422.1	7538.5	7925.9	8067.7	8783.6	8268.3	5536.0
32.5°	8102.3	8136.9	7997.4	7870.6	7827.9	7863.7	8222.2	8359.4	9028.0	8668.4	5630.6
35°	8729.5	8735.2	8568.1	8413.6	8272.9	8319.0	8601.5	8700.6	9365.8	9130.6	5764.3
37.5°	9512.2	9565.3	9334.7	9046.5	8873.6	8806.7	9060.3	9168.7	9839.7	9697.9	5966.0
40°	10381.5	10401.1	10204.0	10024.1	9708.2	9514.6	9689.8	9807.4	10424.2	10374.6	6200.1
42.5°	10928.0	10970.6	10985.6	10967.2	10729.7	10404.6	10471.4	10526.8	11115.9	11009.8	6439.9
45°	11112.4	11175.8	11390.3	11844.5	11869.8	11549.3	11393.7	11446.7	11869.8	11650.8	6669.3
47.5°	10806.9	10915.3	11310.7	12242.2	12939.7	12963.9	12494.7	12378.3	12556.9	12182.3	6835.3
50°	10017.2	10040.3	10645.5	11994.4	13441.2	14316.2	13830.9	13614.1	13209.5	12575.4	6949.4
52.5°	8795.2	8821.7	9328.9	10842.6	13132.2	15261.6	15394.1	15006.8	13872.4	12880.9	7024.4
55°	6528.6	6682.0	7240.0	8702.9	11668.1	15172.8	16636.9	16416.7	14673.6	13123.0	7142.0
57.5°	4014.3	3873.6	4535.3	5921.1	8775.6	13953.1	17020.8	17092.3	15555.5	13325.9	7339.1
60°	1846.9	1874.5	2147.8	3053.9	5349.3	10915.3	16031.7	16483.6	16043.2	13319.0	7388.7
62.5°	1272.8	1247.4	1178.2	1340.8	2439.5	6903.3	13541.5	14307.0	15065.6	12905.1	7191.5
65°	1137.9	1112.5	978.8	933.8	1120.6	3009.0	9844.3	10810.4	12684.9	11860.6	6700.4
67.5°	1062.9	1028.4	890.0	802.4	800.1	1197.8	5804.6	6967.9	9408.5	10027.6	5805.8
70°	984.5	956.9	819.7	722.8	681.3	752.8	2551.3	3339.8	6109.0	7226.1	4522.7
72.5°	906.1	873.9	750.5	646.8	592.6	563.7	977.6	1271.6	3451.7	4332.4	2772.6
75°	792.0	775.9	671.0	585.7	526.9	455.4	620.2	707.9	1650.9	1989.8	1391.5
77.5°	692.9	675.6	596.0	511.9	469.2	370.1	440.4	480.7	696.3	807.0	628.3
80°	507.3	524.6	502.6	451.9	418.5	290.5	296.3	329.7	413.9	457.7	383.9
82.5°	321.6	353.9	387.4	348.2	317.0	229.4	205.2	217.9	282.5	299.7	170.6
85°	134.9	137.2	224.8	212.1	181.0	136.0	123.4	130.3	151.0	157.9	79.5
87.5°	51.9	50.7	79.5	73.8	56.5	39.2	39.2	43.8	59.9	55.3	25.4
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: P453935

CATALOG NUMBER: GALN-SA5A-730-U-AFL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4424.7	4424.7	4424.7	4424.7	4424.7	4424.7	4424.7	4424.7	4424.7	4424.7	4424.7
2.5°	4439.7	4357.8	4195.3	3993.5	3845.9	3679.9	3533.5	3428.6	3389.4	3371.0	3336.4
5°	4436.2	4274.8	3938.2	3585.4	3301.8	3011.3	2765.7	2606.6	2592.8	2486.7	2476.3
7.5°	4437.4	4190.6	3654.6	3135.8	2703.5	2406.0	2203.1	2150.1	2086.7	2070.5	2078.6
10°	4440.8	4083.4	3350.2	2690.8	2272.3	2077.5	2001.4	1980.6	1982.9	1989.8	1991.0
12.5°	4445.4	3979.7	3034.3	2353.0	2030.2	1949.5	1941.4	1959.9	1979.5	1994.4	1997.9
15°	4451.2	3860.9	2726.5	2080.9	1909.1	1902.2	1928.7	1959.9	1987.5	2009.4	2012.9
17.5°	4444.3	3722.6	2468.3	1913.7	1842.3	1875.7	1919.5	1958.7	1984.1	2004.8	2007.1
20°	4428.1	3568.1	2219.3	1796.2	1800.8	1855.0	1902.2	1939.1	1966.8	1977.2	1985.2
22.5°	4365.9	3383.6	2002.5	1705.1	1751.2	1826.1	1882.6	1904.5	1873.4	1851.5	1857.3
25°	4259.8	3143.8	1800.8	1631.3	1706.2	1785.8	1843.4	1790.4	1765.0	1755.8	1760.4
27.5°	4127.2	2881.0	1648.6	1554.1	1648.6	1740.8	1724.7	1715.5	1703.9	1688.9	1692.4
30°	3984.3	2623.9	1519.5	1494.1	1586.3	1639.4	1646.3	1661.3	1648.6	1625.5	1634.8
32.5°	3851.7	2381.8	1421.5	1443.4	1542.5	1534.5	1586.3	1603.6	1544.8	1467.6	1471.0
35°	3738.7	2157.0	1347.7	1393.8	1467.6	1471.0	1522.9	1463.0	1399.6	1362.7	1365.0
37.5°	3653.4	1981.8	1299.3	1351.2	1371.9	1415.7	1388.0	1356.9	1348.8	1323.5	1324.6
40°	3602.7	1828.4	1268.1	1317.7	1314.3	1344.2	1255.5	1286.6	1298.1	1290.0	1291.2
42.5°	3552.0	1720.1	1235.9	1271.6	1270.5	1211.7	1192.1	1218.6	1248.5	1252.0	1249.7
45°	3511.6	1635.9	1202.4	1201.3	1224.3	1132.1	1126.3	1142.5	1185.1	1205.9	1204.7
47.5°	3466.6	1565.6	1151.7	1119.4	1126.3	1082.5	1073.3	1080.2	1132.1	1165.5	1174.8
50°	3410.2	1495.3	1088.3	1044.5	1015.7	1036.4	1038.7	1039.9	1091.8	1129.8	1137.9
52.5°	3365.2	1442.2	1015.7	983.4	948.8	994.9	1012.2	1014.5	1045.6	1076.8	1082.5
55°	3391.7	1412.3	944.2	921.1	890.0	952.3	985.7	990.3	997.2	1020.3	1023.7
57.5°	3471.3	1419.2	886.5	856.6	833.5	901.5	958.0	961.5	956.9	984.5	989.2
60°	3495.5	1415.7	843.9	785.1	771.3	847.4	917.7	924.6	923.4	963.8	971.9
62.5°	3394.0	1371.9	801.2	725.1	715.9	792.0	861.2	888.9	894.6	952.3	962.6
65°	3155.4	1282.0	744.7	661.7	661.7	733.2	807.0	845.0	861.2	938.4	950.0
67.5°	2840.6	1175.9	687.1	607.6	605.3	676.7	749.4	788.6	813.9	918.8	925.7
70°	2357.6	1033.0	615.6	548.8	548.8	613.3	679.0	726.3	763.2	881.9	881.9
72.5°	1615.2	858.9	529.2	481.9	483.0	543.0	609.9	662.9	706.7	808.2	810.5
75°	1021.4	671.0	434.6	410.4	415.0	471.5	540.7	596.0	683.6	798.9	802.4
77.5°	543.0	471.5	345.9	340.1	345.9	397.7	475.0	551.1	686.0	692.9	681.3
80°	351.6	334.3	273.2	261.7	264.0	320.5	423.1	523.4	551.1	558.0	532.6
82.5°	191.4	212.1	193.7	182.2	182.2	250.2	360.8	416.2	395.4	328.6	313.6
85°	81.9	99.1	100.3	87.6	84.2	154.5	242.1	227.1	211.0	201.8	199.4
87.5°	23.1	32.3	32.3	24.2	18.4	42.7	48.4	13.8	0.0	1.2	2.3
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)