

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: P531697

Luminaire Tested: **GALN-SA7A-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
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-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17112 lumens
Efficiency: N/A
Efficacy: 79.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

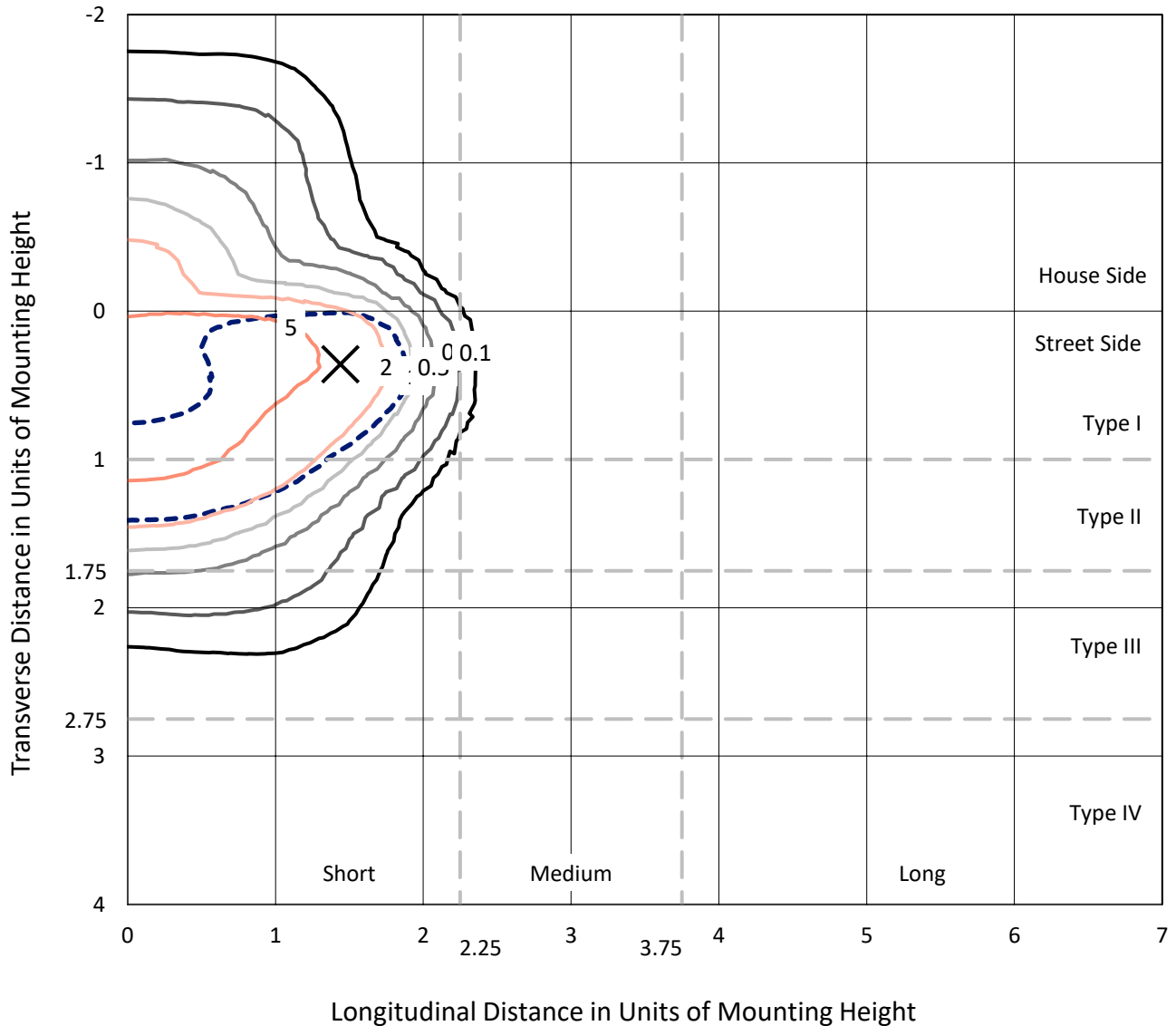
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531697
 CATALOG NUMBER: GALN-SA7A-730-U-T2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

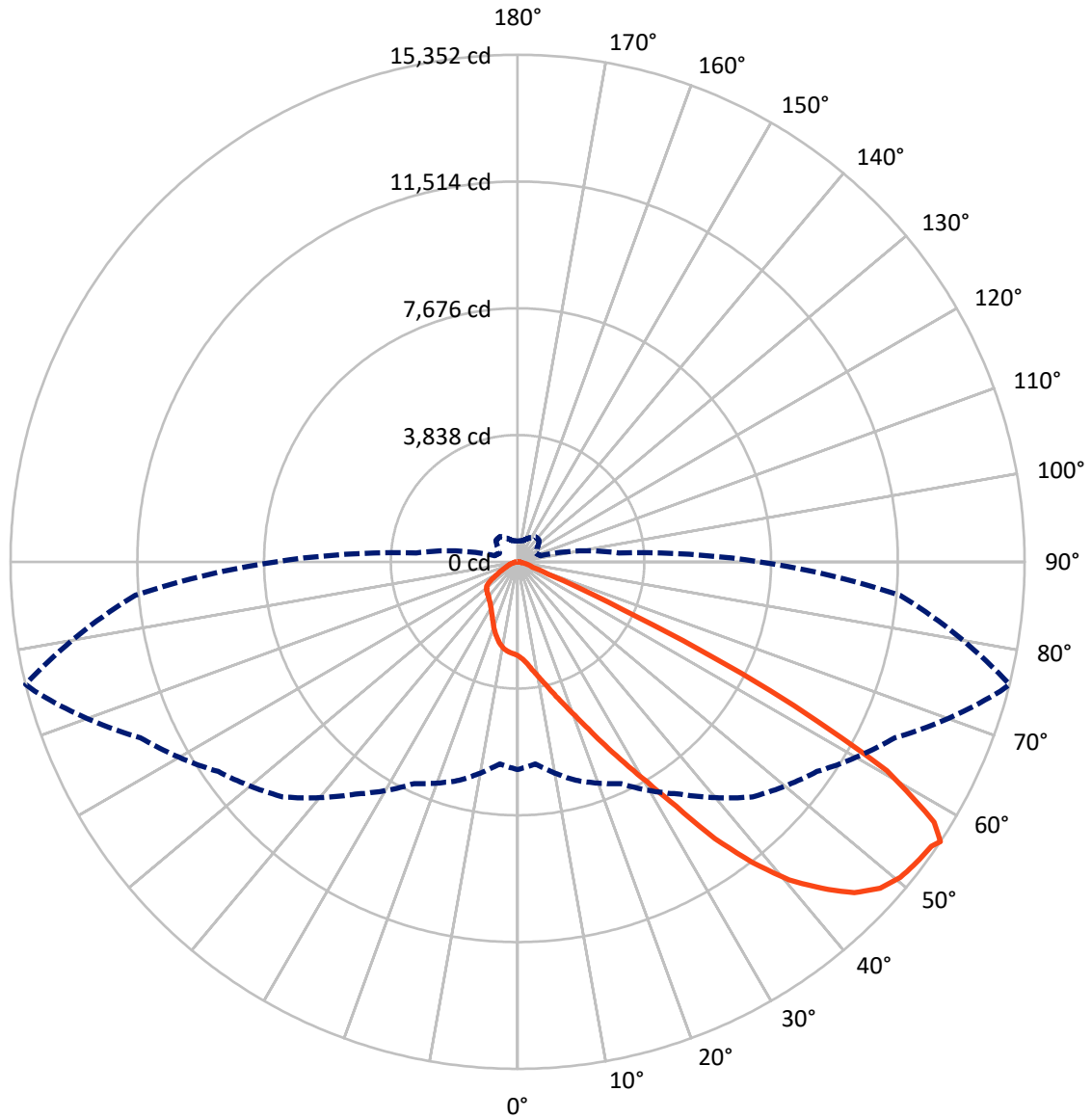
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P531697
CATALOG NUMBER: GALN-SA7A-730-U-T2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P531697
 CATALOG NUMBER: GALN-SA7A-730-U-T2-GRSBK

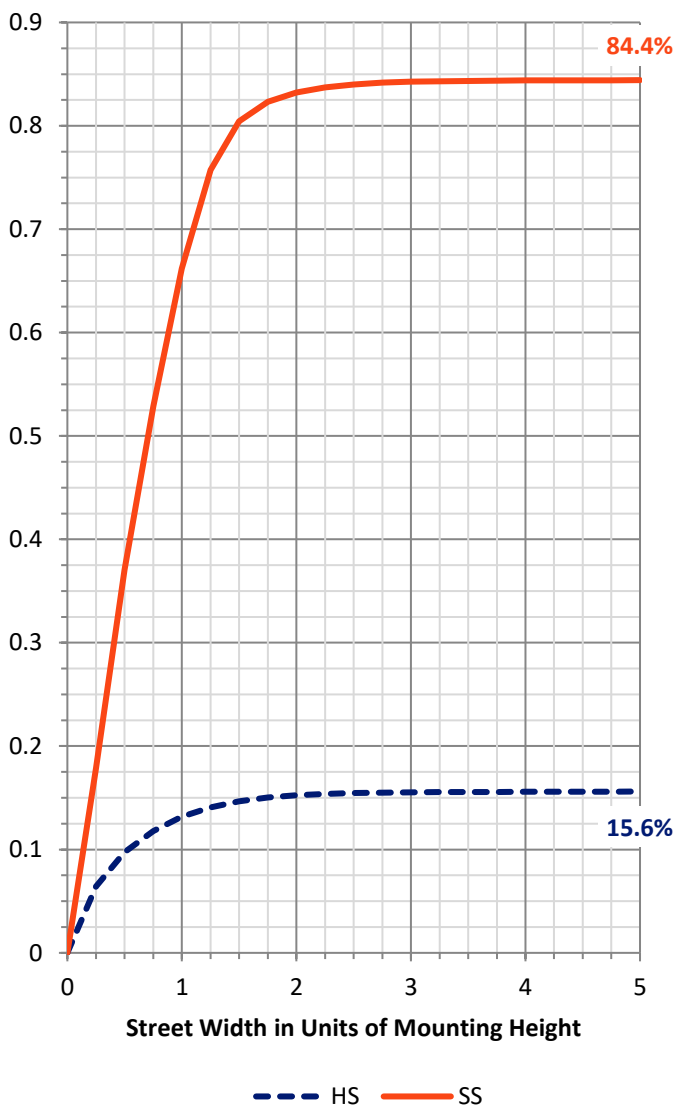
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2688.2	0.0	2688.2
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	14423.8	0.0	14423.8
	% Fixture	84.3	0.0	84.3
Total	Lumens	17112.0	0.0	17112.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	286.9	1.7
10°-20°	921.8	5.4
20°-30°	1671.5	9.8
30°-40°	2882.5	16.8
40°-50°	4682.7	27.4
50°-60°	4935.8	28.8
60°-70°	1508.1	8.8
70°-80°	193.3	1.1
80°-90°	29.4	0.2
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°	17112.0	100.0
0°-180°	17112.0	100.0

Coefficient of Utilization

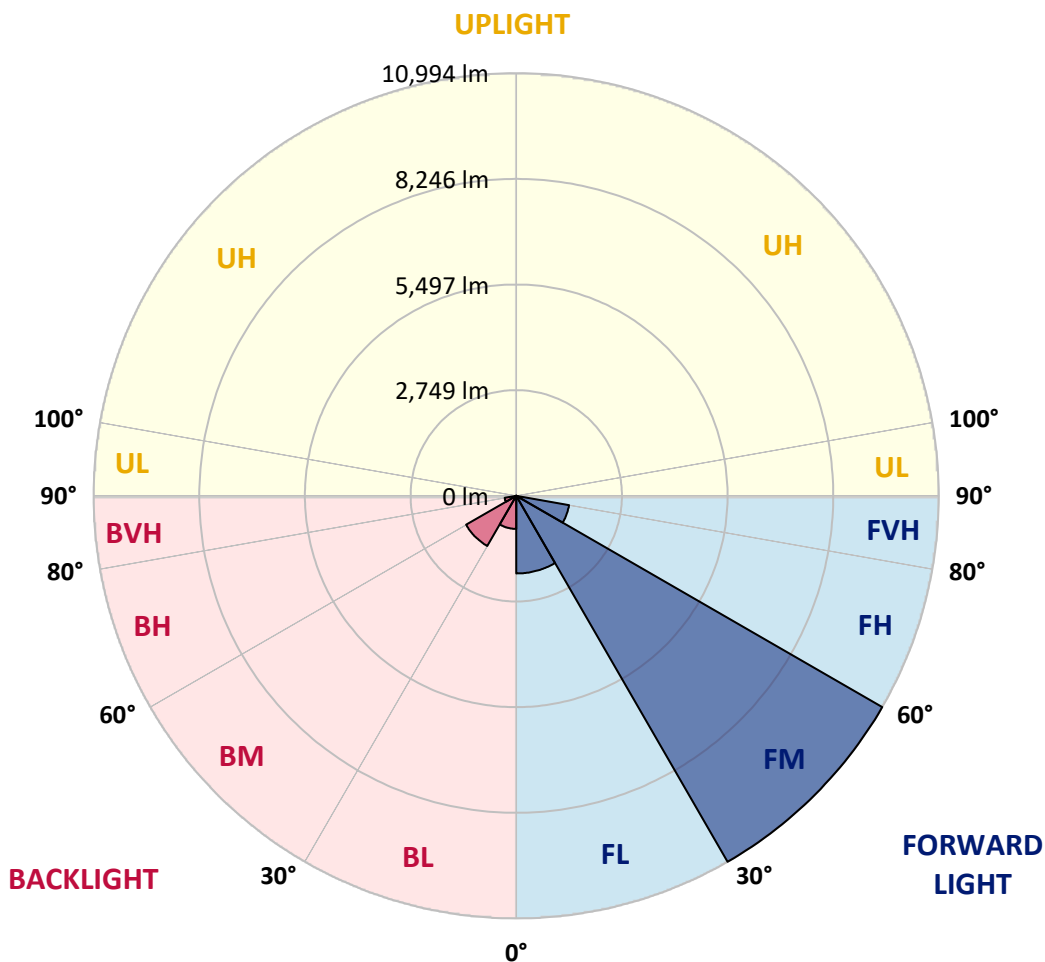


REPORT NUMBER: P531697
 CATALOG NUMBER: GALN-SA7A-730-U-T2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2020.2	11.8			
FM (30°-60°)	10994.4	64.2			
FH (60°-80°)	1394.7	8.2			G1/1800
FVH (80°-90°)	14.4	0.1			G1/100
BL (0°-30°)	860.0	5.0	B2/1000		
BM (30°-60°)	1506.6	8.8	B2/2500		
BH (60°-80°)	306.7	1.8	B1/500		G1/500
BVH (80°-90°)	15.0	0.1			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: P531697

CATALOG NUMBER: GALN-SA7A-730-U-T2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2848.3	2848.3	2848.3	2848.3	2848.3	2848.3	2848.3	2848.3	2848.3	2848.3	2848.3
2.5°	3280.5	3204.8	3207.9	3201.6	3192.1	3157.4	3053.3	3037.6	2968.2	2949.3	2886.2
5°	3674.7	3608.5	3646.4	3589.6	3536.0	3504.4	3334.1	3255.2	3144.8	3103.8	3015.5
7.5°	3920.8	3889.2	3876.6	3879.8	3829.3	3750.4	3674.7	3501.3	3353.0	3321.5	3135.4
10°	4040.6	4021.7	4040.6	4031.2	4053.3	4062.7	3930.2	3826.1	3608.5	3554.9	3264.7
12.5°	4069.0	4106.9	4122.6	4163.7	4217.3	4308.8	4299.3	4157.3	3867.2	3832.5	3463.4
15°	4138.4	4170.0	4154.2	4220.4	4321.4	4475.9	4557.9	4535.9	4223.6	4160.5	3693.7
17.5°	4201.5	4144.7	4198.4	4330.8	4431.8	4668.3	4867.1	4958.5	4611.6	4539.0	3905.0
20°	4286.7	4270.9	4261.4	4327.7	4507.5	4822.9	5217.2	5384.4	5046.9	4971.2	4207.8
22.5°	4545.3	4548.5	4542.2	4444.4	4573.7	4930.1	5523.2	5936.4	5567.3	5504.2	4551.6
25°	4886.0	4845.0	4813.4	4734.6	4718.8	5027.9	5832.3	6611.4	6191.9	6147.7	4923.8
27.5°	5245.6	5245.6	5150.9	5078.4	4977.5	5270.8	6116.2	7267.5	6945.7	6885.8	5248.7
30°	5636.7	5658.8	5646.2	5491.6	5428.5	5535.8	6406.4	8106.5	7810.0	7734.3	5785.0
32.5°	6213.9	6166.6	6220.2	6090.9	5904.8	5999.4	6863.7	8857.2	8932.9	8825.7	6488.4
35°	6977.3	6948.9	6914.2	6702.9	6482.1	6557.8	7510.3	9781.4	10342.9	10289.3	7198.1
37.5°	7661.8	7646.0	7617.6	7472.5	7217.0	7308.5	8245.3	10743.5	11718.2	11541.5	8201.1
40°	8380.9	8466.1	8374.6	8245.3	8011.9	8213.8	9109.6	11314.4	12875.8	12661.3	8967.6
42.5°	9355.6	9289.4	9330.4	9093.8	8967.6	9188.4	9977.0	11885.3	13774.8	13519.3	9781.4
45°	10393.4	10396.5	10286.1	10210.4	9882.4	10122.1	10510.1	12200.8	14490.8	14292.1	10396.5
47.5°	11058.9	11055.8	11175.6	11295.5	10958.0	10721.4	10872.8	12500.4	14859.8	14768.4	10620.5
50°	10954.8	10986.4	11140.9	11588.8	11765.5	11446.9	11213.5	12412.1	15027.0	15017.5	10812.9
52.5°	9529.1	9633.2	9891.8	10538.5	11428.0	11822.3	11569.9	12576.1	15109.0	15124.8	11099.9
55°	7254.9	7311.6	7803.7	8589.1	9573.3	10923.3	11428.0	12705.5	15172.1	15200.5	11446.9
56°	6292.8	6141.4	6851.1	7409.4	8586.0	10062.2	11068.4	12604.5	15134.3	15351.9	11620.4
57.5°	4750.4	4649.4	5223.5	5920.6	7053.0	8611.2	9951.8	12128.2	14878.8	14875.6	11371.2
60°	2889.3	2788.4	3230.0	3640.0	4274.1	5302.4	6724.9	9658.4	12579.3	12844.2	9207.4
62.5°	1719.1	1782.2	2217.5	2466.6	2671.7	2778.9	3479.2	5740.8	8393.5	8582.8	5712.4
65°	1145.0	1167.1	1495.1	1905.2	1996.7	1589.8	1416.3	2324.7	3640.0	3523.3	2356.2
67.5°	706.6	757.0	1003.1	1432.0	1586.6	1160.8	671.9	867.4	1003.1	1003.1	681.3
70°	429.0	454.2	668.7	974.7	1088.2	747.6	488.9	488.9	482.6	473.1	406.9
72.5°	205.0	220.8	340.7	501.5	511.0	394.3	378.5	413.2	403.7	400.6	337.5
75°	88.3	94.6	119.9	157.7	179.8	167.2	230.3	296.5	306.0	296.5	242.9
77.5°	28.4	31.5	44.2	56.8	59.9	72.5	97.8	123.0	141.9	132.5	119.9
80°	3.2	6.3	12.6	28.4	44.2	56.8	72.5	82.0	91.5	91.5	85.2
82.5°	3.2	3.2	12.6	25.2	41.0	53.6	69.4	78.9	91.5	94.6	88.3
85°	0.0	3.2	9.5	22.1	34.7	34.7	31.5	31.5	22.1	22.1	22.1
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



REPORT NUMBER: P531697

CATALOG NUMBER: GALN-SA7A-730-U-T2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2848.3	2848.3	2848.3	2848.3	2848.3	2848.3	2848.3	2848.3	2848.3	2848.3	2848.3
2.5°	2873.6	2867.2	2782.1	2728.5	2700.1	2643.3	2608.6	2583.4	2564.4	2542.4	2545.5
5°	2911.4	2889.3	2747.4	2649.6	2532.9	2469.8	2416.2	2372.0	2343.6	2337.3	2324.7
7.5°	3018.6	2901.9	2687.4	2510.8	2362.6	2299.5	2252.2	2223.8	2236.4	2208.0	2230.1
10°	3100.7	2927.2	2614.9	2359.4	2211.2	2163.8	2138.6	2160.7	2192.2	2179.6	2163.8
12.5°	3201.6	2952.4	2498.2	2214.3	2075.5	2040.8	2085.0	2126.0	2189.1	2214.3	2182.8
15°	3315.2	2980.8	2349.9	2047.1	1958.8	1987.2	2062.9	2135.5	2198.5	2230.1	2249.0
17.5°	3453.9	2971.3	2204.8	1914.7	1848.4	1930.4	2021.9	2088.1	2182.8	2230.1	2217.5
20°	3583.3	2939.8	2044.0	1782.2	1785.3	1861.0	1936.7	2044.0	2094.4	2157.5	2135.5
22.5°	3706.3	2883.0	1876.8	1690.7	1690.7	1807.4	1845.3	1914.7	1958.8	1990.4	1987.2
25°	3879.8	2775.8	1738.0	1602.4	1640.2	1715.9	1747.5	1769.6	1750.6	1775.9	1779.0
27.5°	4002.8	2665.4	1624.5	1523.5	1592.9	1649.7	1640.2	1627.6	1583.5	1548.8	1570.8
30°	4135.3	2536.0	1526.7	1469.9	1507.7	1558.2	1520.4	1482.5	1413.1	1356.3	1359.5
32.5°	4324.5	2476.1	1441.5	1406.8	1457.3	1463.6	1422.6	1365.8	1296.4	1242.8	1239.6
35°	4677.8	2438.3	1369.0	1365.8	1375.3	1378.4	1337.4	1268.0	1239.6	1195.5	1211.2
37.5°	5031.1	2419.3	1318.5	1305.9	1302.7	1305.9	1258.6	1192.3	1245.9	1242.8	1249.1
40°	5482.1	2504.5	1245.9	1230.2	1233.3	1233.3	1173.4	1154.5	1249.1	1258.6	1261.7
42.5°	5939.5	2611.7	1198.6	1148.2	1160.8	1160.8	1129.2	1107.2	1173.4	1110.3	1100.8
45°	6337.0	2769.5	1148.2	1066.1	1097.7	1113.5	1104.0	1066.1	1025.1	917.9	917.9
47.5°	6466.3	2908.2	1088.2	987.3	1012.5	1081.9	1053.5	974.7	902.1	813.8	807.5
50°	6693.4	3059.7	1040.9	895.8	949.4	1034.6	1006.2	927.4	845.3	782.3	785.4
52.5°	6926.8	3233.1	952.6	788.6	854.8	996.8	996.8	908.4	782.3	738.1	731.8
55°	7276.9	3226.8	794.9	646.6	763.3	940.0	955.7	813.8	700.3	665.6	665.6
56°	7327.4	3081.7	716.0	605.6	722.3	924.2	927.4	788.6	668.7	630.9	630.9
57.5°	6948.9	2782.1	627.7	555.2	671.9	895.8	899.0	766.5	643.5	589.9	583.5
60°	5346.5	1883.1	523.6	495.2	608.8	807.5	823.3	697.1	564.6	523.6	520.5
62.5°	3018.6	1044.1	460.5	447.9	523.6	687.6	734.9	608.8	479.5	457.4	463.7
65°	1378.4	574.1	388.0	362.7	422.7	529.9	593.0	501.5	394.3	369.1	369.1
67.5°	504.7	391.1	331.2	287.0	296.5	343.8	384.8	324.9	261.8	224.0	233.4
70°	359.6	328.0	290.2	249.2	230.3	224.0	220.8	182.9	129.3	100.9	107.2
72.5°	290.2	271.3	242.9	211.3	179.8	151.4	129.3	94.6	59.9	41.0	37.9
75°	208.2	198.7	176.6	151.4	126.2	107.2	88.3	59.9	31.5	15.8	15.8
77.5°	107.2	107.2	104.1	94.6	78.9	63.1	50.5	34.7	18.9	6.3	6.3
80°	82.0	88.3	91.5	82.0	72.5	56.8	41.0	25.2	12.6	3.2	3.2
82.5°	78.9	91.5	97.8	85.2	72.5	53.6	41.0	25.2	12.6	3.2	3.2
85°	18.9	18.9	28.4	31.5	41.0	44.2	34.7	22.1	9.5	3.2	3.2
87.5°	6.3	6.3	6.3	6.3	6.3	6.3	3.2	3.2	3.2	3.2	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)