

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: P454883

Luminaire Tested: **GALN-SA6A-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454883
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25273 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

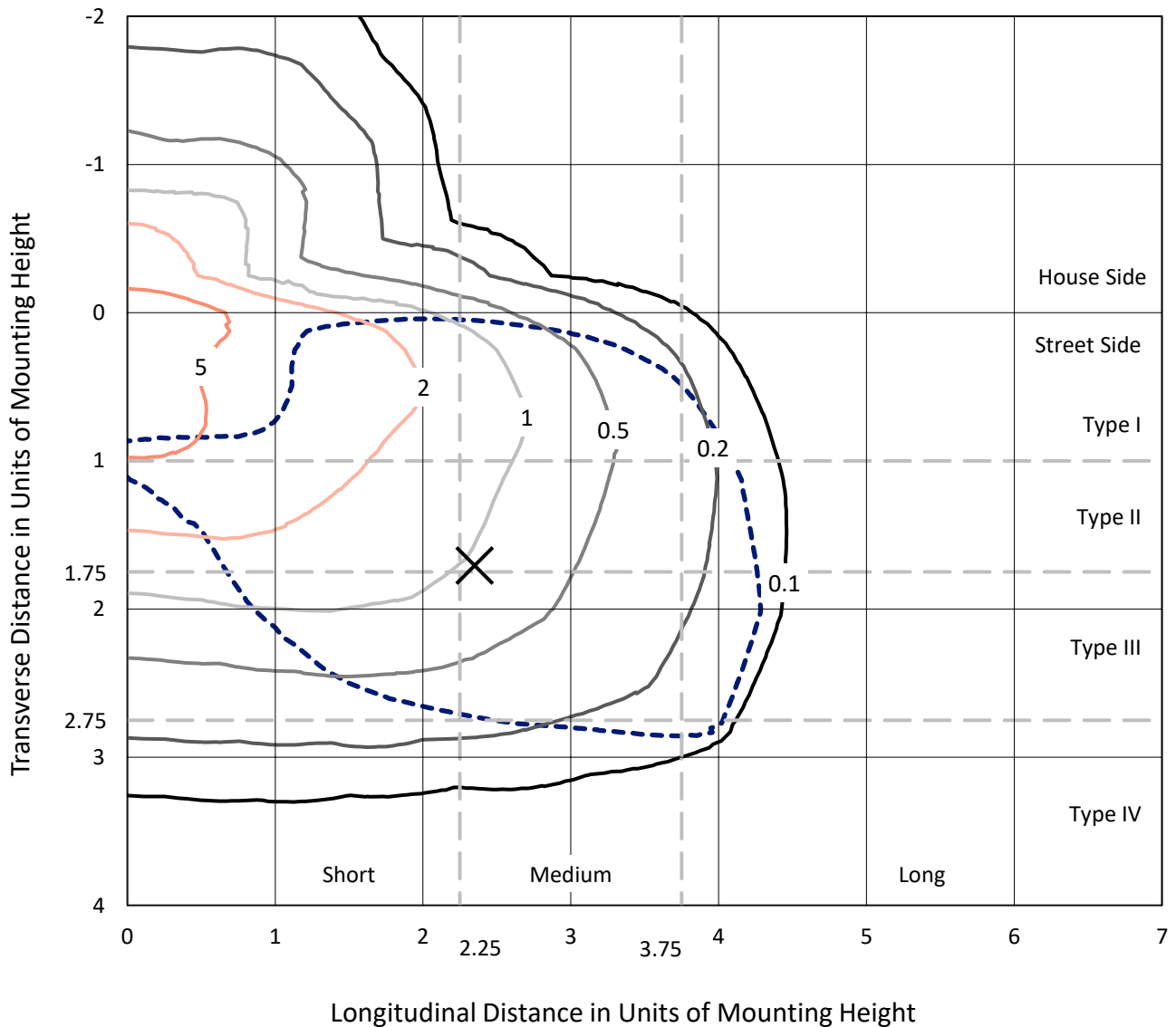
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

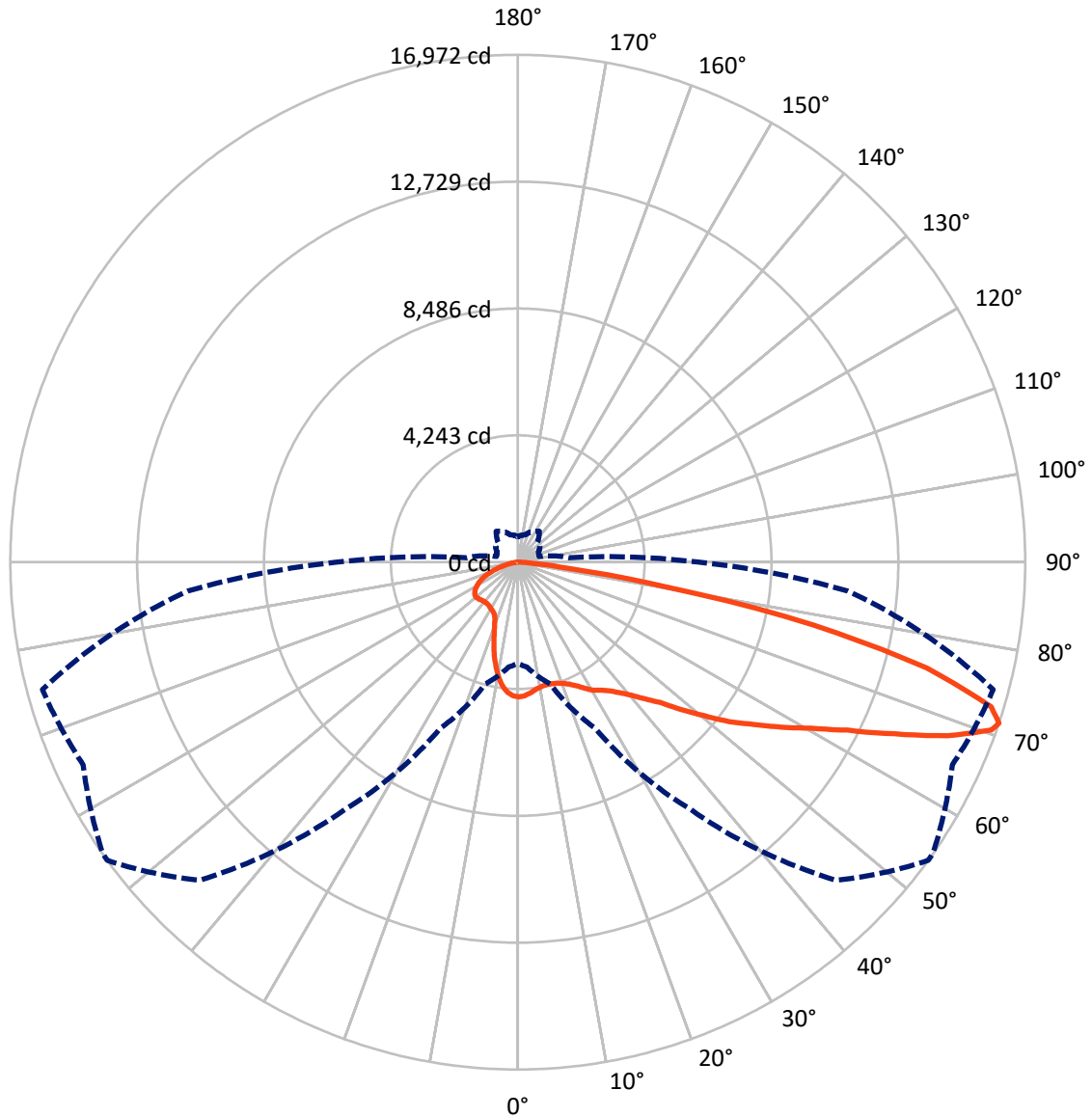
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4562.9	0.0	4562.9
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	20710.1	0.0	20710.1
	% Fixture	81.9	0.0	81.9
Total	Lumens	25273.0	0.0	25273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.8	1.6
10°-20°	1061.0	4.2
20°-30°	1766.6	7.0
30°-40°	2612.3	10.3
40°-50°	3679.5	14.6
50°-60°	4927.0	19.5
60°-70°	6210.1	24.6
70°-80°	4241.5	16.8
80°-90°	373.0	1.5
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°	25273.0	100.0
0°-180°	25273.0	100.0

Coefficient of Utilization



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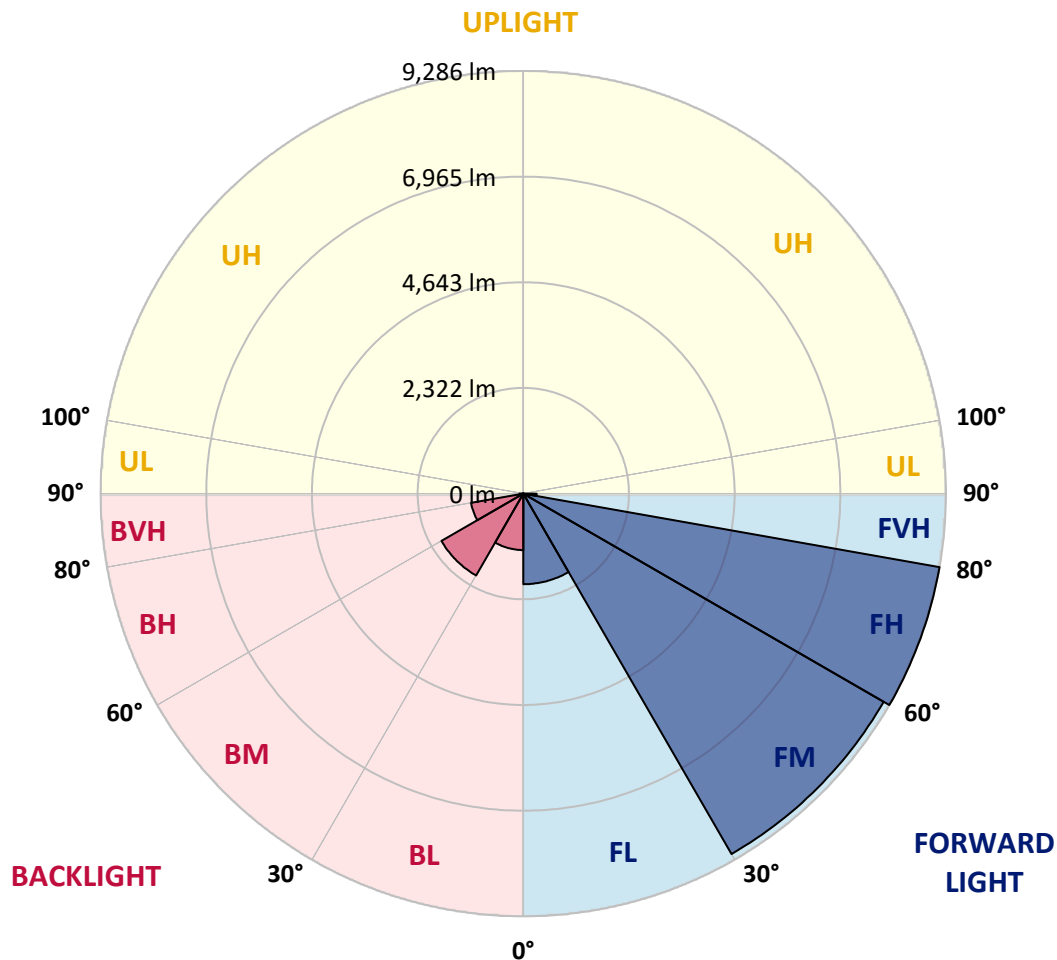
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1989.4	7.9			
FM	(30°-60°)	9142.9	36.2			
FH	(60°-80°)	9286.3	36.7			G4/12000
FVH	(80°-90°)	291.6	1.2			G3/500
BL	(0°-30°)	1240.1	4.9	B3/2500		
BM	(30°-60°)	2076.0	8.2	B2/2500		
BH	(60°-80°)	1165.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	81.4	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4509.1	4509.1	4509.1	4509.1	4509.1	4509.1	4509.1	4509.1	4509.1	4509.1	4509.1
2.5°	4356.2	4376.7	4382.1	4395.8	4424.4	4447.6	4470.9	4468.1	4500.9	4514.5	4526.8
5°	4162.3	4167.8	4188.3	4215.6	4266.1	4330.2	4393.0	4394.4	4474.9	4539.1	4570.5
7.5°	4020.4	4038.1	4051.8	4080.4	4133.7	4203.3	4302.9	4311.1	4454.5	4581.4	4648.3
10°	3927.5	3948.0	3963.0	3998.5	4051.8	4129.6	4237.4	4252.4	4439.5	4648.3	4765.7
12.5°	3842.9	3863.4	3877.0	3923.4	3993.1	4088.6	4210.1	4227.9	4444.9	4726.1	4894.0
15°	3894.8	3911.1	3905.7	3919.3	3965.7	4075.0	4221.0	4238.8	4465.4	4801.2	5021.0
17.5°	4125.5	4139.1	4094.1	4042.2	4020.4	4100.9	4255.2	4274.3	4506.3	4879.0	5150.7
20°	4465.4	4502.3	4404.0	4287.9	4182.8	4193.7	4326.1	4346.6	4563.7	4956.8	5283.1
22.5°	4907.7	4935.0	4814.9	4623.7	4429.9	4330.2	4432.6	4444.9	4649.7	5057.9	5427.8
25°	5427.8	5444.2	5277.7	5031.9	4752.1	4563.7	4578.7	4600.5	4791.7	5172.5	5556.1
27.5°	5932.9	5984.8	5792.3	5492.0	5123.4	4809.4	4779.4	4793.0	4945.9	5236.7	5644.9
30°	6532.2	6528.1	6324.7	5976.6	5504.3	5077.0	4969.1	4966.4	5029.2	5268.1	5709.0
32.5°	7010.0	7066.0	6866.7	6487.2	5939.8	5354.1	5100.2	5094.7	5093.4	5322.7	5804.6
35°	7553.4	7561.5	7378.6	6996.4	6410.7	5702.2	5283.1	5255.8	5224.4	5440.1	5934.3
37.5°	8039.3	8077.6	7909.7	7481.0	6873.5	6064.0	5534.3	5516.6	5421.0	5643.5	6141.8
40°	8418.9	8447.5	8346.5	7938.3	7329.5	6454.4	5853.7	5821.0	5704.9	5976.6	6418.9
42.5°	8543.1	8601.8	8641.4	8440.7	7853.7	6917.2	6246.9	6206.0	6117.2	6481.7	6738.4
45°	8552.6	8645.5	8854.3	8863.9	8380.6	7471.4	6705.6	6676.9	6670.1	7128.8	7187.5
47.5°	8480.3	8574.5	8925.3	9115.1	8850.2	8031.2	7367.7	7322.6	7326.7	7928.8	7691.2
50°	8305.5	8417.5	8843.4	9276.2	9217.5	8612.7	8066.6	8051.6	8136.3	8842.1	8214.1
52.5°	7976.5	8111.7	8758.8	9377.2	9490.5	9113.7	8861.2	8818.8	9033.2	9833.1	8786.1
55°	7066.0	7269.4	8448.9	9433.2	9749.9	9592.9	9576.5	9652.9	9936.9	10914.3	9415.4
57.5°	6590.9	6743.8	7775.9	9442.7	10077.5	10149.9	10412.0	10431.1	10928.0	12062.4	10126.7
60°	6331.5	6466.7	7407.3	9379.9	10534.8	10839.3	11266.6	11334.8	11895.9	13306.1	10863.8
62.5°	6104.9	6221.0	7186.1	9162.9	11050.9	11861.8	12373.7	12406.4	12994.8	14679.4	11591.5
65°	5571.2	5703.6	6741.1	8945.8	11495.9	13139.5	13842.6	13804.4	14164.8	15864.4	12047.4
67.5°	4851.7	5019.6	5909.7	8196.3	11715.7	14536.1	15497.1	15449.4	15319.7	16641.1	12178.5
70°	3933.0	4023.1	4846.3	6900.8	10837.9	15269.2	16803.6	16753.1	16035.0	16743.5	11558.7
71°	3384.2	3524.8	4219.7	6129.5	10107.5	15045.3	16971.5	16957.8	16036.4	16460.9	11091.8
72.5°	2641.6	2727.6	3341.9	4749.3	8590.9	13773.0	16556.5	16608.4	15688.3	15676.0	10129.4
75°	1670.9	1709.2	2096.9	2795.8	4713.8	9754.0	14133.4	14274.0	13930.0	12831.0	7532.9
77.5°	970.6	1019.8	1255.9	1647.7	2036.8	5294.0	10113.0	10265.9	9678.9	7064.6	3083.9
80°	565.2	619.8	827.3	957.0	935.1	1964.4	5149.3	5410.1	4191.0	1784.2	865.5
82.5°	314.0	350.8	581.6	582.9	498.3	641.6	1620.4	1695.5	1195.9	719.4	353.6
85°	228.0	258.0	375.4	339.9	238.9	275.8	563.8	591.1	483.3	303.1	114.7
87.5°	80.5	114.7	206.1	163.8	65.5	57.3	162.5	132.4	122.9	84.6	25.9
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°	4509.1	4509.1	4509.1	4509.1	4509.1	4509.1	4509.1	4509.1	4509.1	4509.1	4509.1
2.5°	4533.7	4536.4	4522.7	4498.2	4473.6	4442.2	4406.7	4379.4	4367.1	4365.7	4364.4
5°	4582.8	4589.6	4537.7	4461.3	4376.7	4272.9	4184.2	4083.2	4057.2	4016.3	4028.5
7.5°	4662.0	4657.9	4555.5	4393.0	4195.1	3975.3	3789.6	3681.8	3569.9	3538.5	3539.8
10°	4775.3	4749.3	4555.5	4253.8	3923.4	3597.2	3337.8	3174.0	3085.2	3011.5	2984.2
12.5°	4895.4	4829.9	4511.8	4058.6	3574.0	3174.0	2895.5	2674.3	2617.0	2556.9	2558.3
15°	5010.1	4900.9	4425.8	3784.2	3197.2	2722.1	2451.8	2319.4	2301.6	2308.5	2307.1
17.5°	5113.8	4951.4	4294.7	3478.4	2757.6	2334.4	2191.1	2200.6	2248.4	2282.5	2286.6
20°	5219.0	4981.4	4099.5	3068.8	2342.6	2099.6	2105.1	2180.1	2252.5	2298.9	2305.7
22.5°	5318.6	4995.1	3870.2	2673.0	2042.3	1999.9	2080.5	2161.0	2232.0	2277.1	2283.9
25°	5384.1	4963.7	3545.3	2259.3	1894.8	1964.4	2049.1	2117.3	2177.4	2223.8	2234.7
27.5°	5401.9	4862.7	3142.6	1924.9	1826.6	1930.3	2008.1	2058.6	2105.1	2148.7	2156.9
30°	5392.3	4713.8	2700.3	1728.3	1787.0	1890.7	1950.8	1987.7	2043.6	2077.8	2084.6
32.5°	5377.3	4540.5	2238.8	1623.2	1754.2	1853.9	1889.4	1922.1	1920.8	1907.1	1916.7
35°	5382.8	4333.0	1864.8	1560.4	1725.5	1826.6	1856.6	1815.6	1698.2	1692.8	1687.3
37.5°	5411.4	4128.2	1593.1	1516.7	1710.5	1822.5	1838.9	1650.5	1546.7	1498.9	1486.6
40°	5485.2	3889.3	1414.3	1483.9	1709.2	1853.9	1758.3	1567.2	1367.9	1275.0	1268.2
42.5°	5583.4	3654.5	1305.1	1463.4	1725.5	1901.6	1725.5	1449.8	1232.7	1178.1	1169.9
45°	5729.5	3385.6	1245.0	1453.9	1750.1	1919.4	1714.6	1363.8	1178.1	1134.4	1134.4
47.5°	5894.7	3128.9	1212.2	1447.1	1781.5	1907.1	1617.7	1336.5	1152.2	1157.6	1183.6
50°	6058.5	2906.4	1187.7	1432.0	1808.8	1900.3	1578.1	1335.1	1159.0	1228.6	1275.0
52.5°	6248.3	2749.4	1157.6	1407.5	1808.8	1856.6	1565.8	1362.4	1178.1	1198.6	1219.1
55°	6477.6	2700.3	1119.4	1354.2	1776.1	1747.4	1559.0	1402.0	1191.8	1144.0	1152.2
57.5°	6780.7	2779.4	1082.6	1287.3	1701.0	1634.1	1556.3	1412.9	1160.4	1120.8	1112.6
60°	7132.9	2936.4	1071.6	1219.1	1598.6	1537.2	1539.9	1381.5	1116.7	1075.7	1082.6
62.5°	7380.0	3030.6	1064.8	1167.2	1486.6	1430.7	1500.3	1343.3	1097.6	1062.1	1068.9
65°	7380.0	2916.0	1002.0	1088.0	1341.9	1302.3	1452.5	1295.5	1073.0	1032.1	1025.2
67.5°	7100.1	2581.5	906.5	969.3	1182.2	1156.3	1385.6	1238.2	1036.1	1004.7	988.4
70°	6371.1	1957.6	786.3	830.0	980.2	1003.4	1299.6	1160.4	974.7	936.5	911.9
71°	6050.3	1705.1	735.8	759.0	902.4	936.5	1258.7	1127.6	947.4	892.8	849.1
72.5°	5431.9	1436.1	659.4	668.9	771.3	832.7	1172.7	1064.8	895.5	817.7	768.6
75°	4126.8	1048.4	531.0	525.6	570.6	660.7	992.5	948.8	785.0	679.8	651.2
77.5°	1782.9	570.6	397.3	401.4	387.7	501.0	780.9	815.0	673.0	552.9	526.9
80°	540.6	329.0	271.7	277.1	259.4	335.8	550.2	638.9	540.6	430.0	394.5
82.5°	277.1	196.6	185.7	182.9	165.2	189.8	333.1	436.8	386.3	268.9	237.5
85°	120.1	105.1	91.5	88.7	77.8	68.3	118.8	218.4	204.8	150.2	143.3
87.5°	30.0	27.3	17.7	16.4	9.6	1.4	0.0	0.0	0.0	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)