

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: P452079

Luminaire Tested: **GALN-SA3A-730-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452079  
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-SA3A-730-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 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: 12555 lumens  
Efficiency: N/A  
Efficacy: 135.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

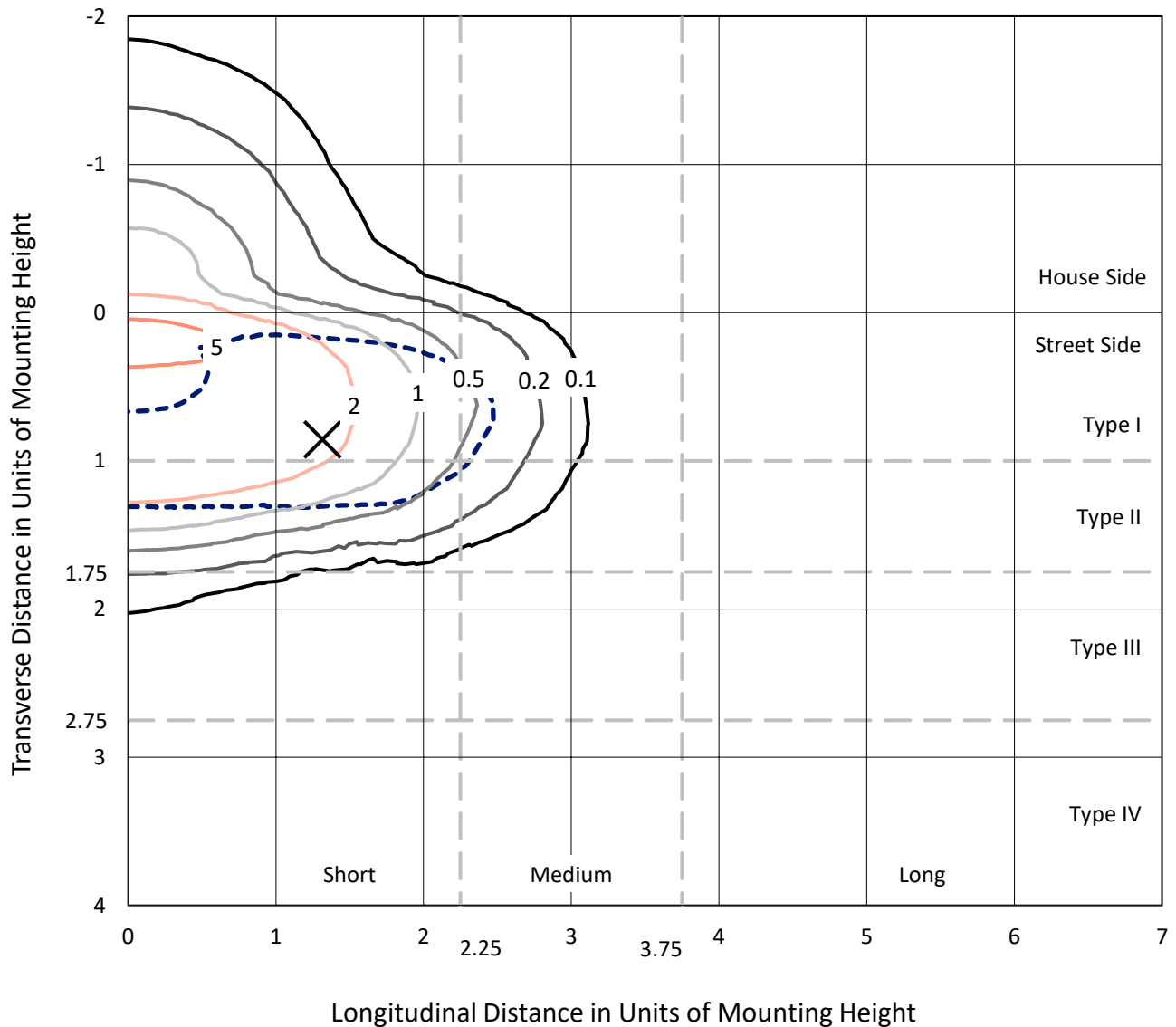
Input Watts (W): 93  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

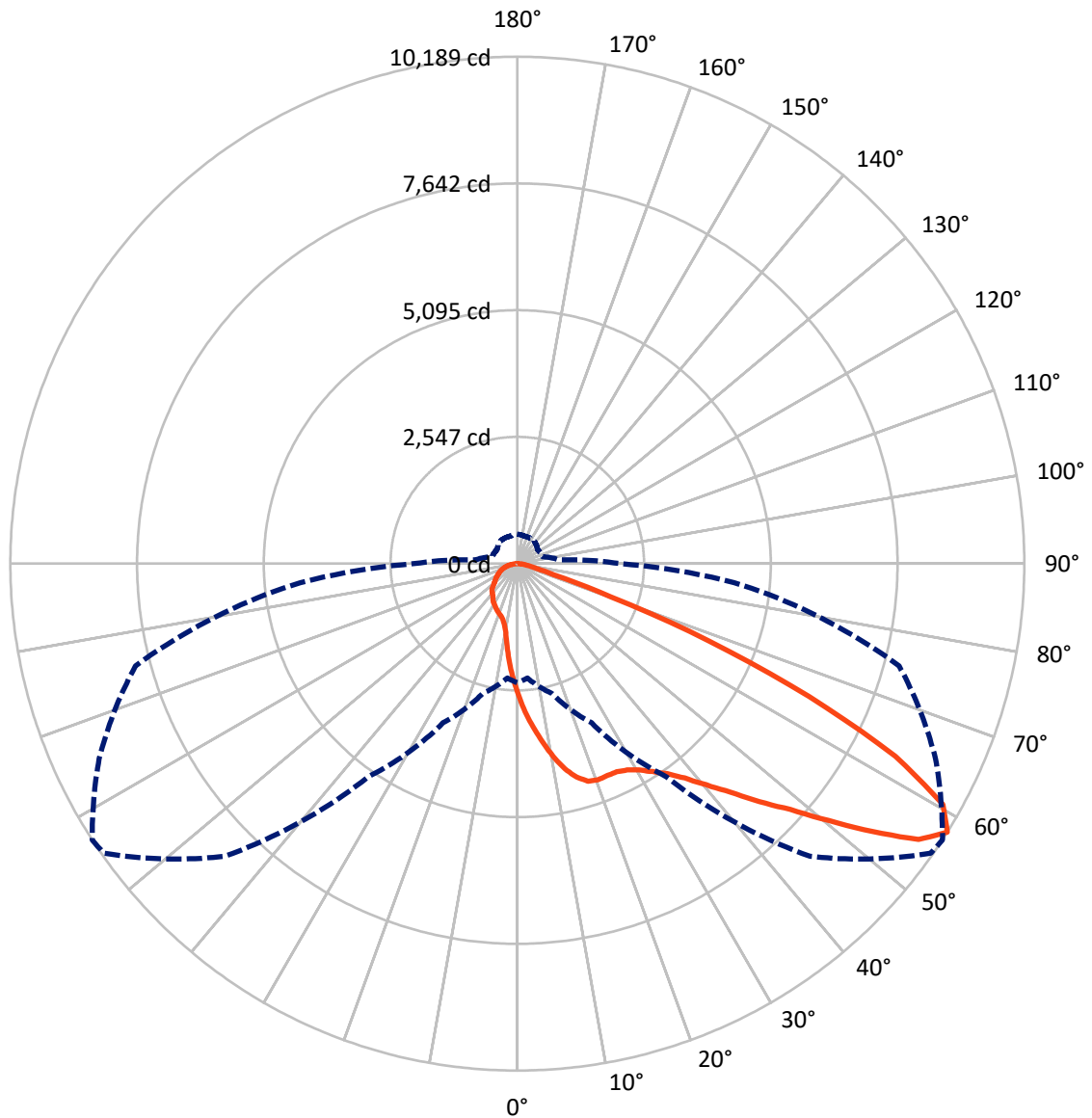
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1909.3	0.0	1909.3
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	10645.7	0.0	10645.7
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	12555.0	0.0	12555.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	253.5	2.0
10°-20°	747.1	6.0
20°-30°	1240.6	9.9
30°-40°	1868.6	14.9
40°-50°	2805.6	22.3
50°-60°	3144.7	25.0
60°-70°	1840.5	14.7
70°-80°	544.4	4.3
80°-90°	110.0	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°	12555.0	100.0
0°-180°	12555.0	100.0

**Coefficient of Utilization**



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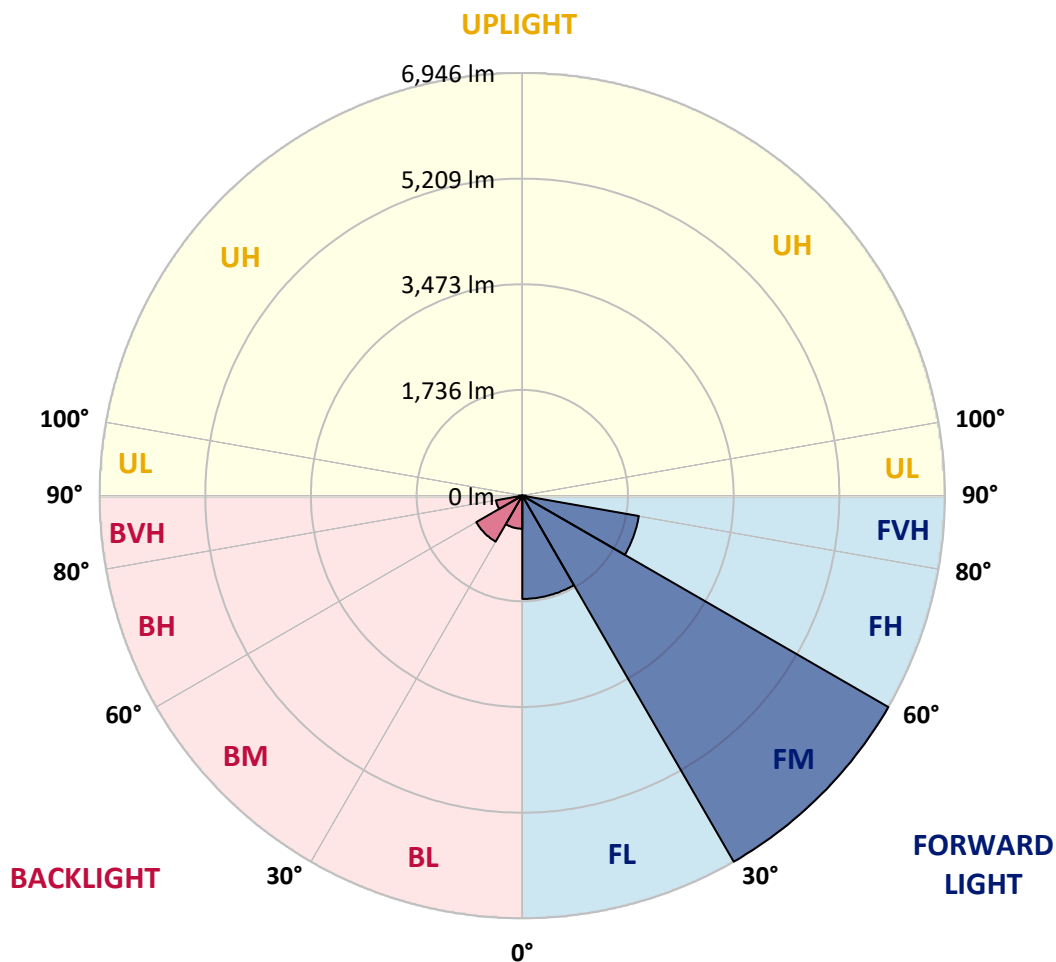
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1697.1	13.5			
FM	(30°-60°)	6946.0	55.3			
FH	(60°-80°)	1945.5	15.5			G2/5000
FVH	(80°-90°)	57.1	0.5			G1/100
BL	(0°-30°)	544.0	4.3	B2/1000		
BM	(30°-60°)	873.0	7.0	B1/1000		
BH	(60°-80°)	439.3	3.5	B1/500		G1/500
BVH	(80°-90°)	52.9	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7
2.5°	3277.5	3241.8	3213.6	3188.8	3156.5	3069.3	2982.0	2980.6	2911.2	2804.0	2694.0
5°	3811.5	3763.4	3769.6	3692.6	3615.6	3489.2	3304.3	3294.7	3146.9	2946.2	2742.1
7.5°	4159.2	4159.9	4140.7	4096.7	4013.5	3869.9	3660.3	3612.9	3407.4	3102.9	2797.1
10°	4141.4	4159.9	4192.2	4230.0	4255.4	4184.7	3993.6	3935.9	3668.5	3292.6	2858.3
12.5°	3903.6	3932.4	3978.5	4073.3	4226.6	4343.4	4278.1	4231.4	3970.9	3481.6	2925.6
15°	3755.1	3772.3	3797.7	3861.7	4026.6	4306.3	4475.4	4450.6	4256.1	3695.3	3001.2
17.5°	3709.8	3727.0	3735.2	3774.4	3891.9	4178.5	4553.0	4597.0	4509.0	3891.9	3077.5
20°	3755.1	3763.4	3763.4	3786.7	3878.8	4103.6	4549.6	4638.2	4716.6	4127.6	3149.0
22.5°	3874.0	3877.5	3872.6	3880.9	3949.6	4124.2	4517.3	4627.2	4884.3	4327.6	3204.6
25°	4067.1	4072.6	4041.0	4021.8	4072.0	4214.9	4535.2	4636.2	5015.5	4518.7	3241.8
27.5°	4286.4	4293.2	4254.8	4210.1	4233.5	4326.9	4605.3	4696.0	5113.8	4707.0	3265.1
30°	4555.1	4557.8	4493.2	4439.6	4424.5	4493.9	4724.8	4809.4	5236.2	4929.0	3300.2
32.5°	4830.0	4850.6	4767.4	4691.8	4666.4	4687.7	4901.5	4983.2	5381.8	5167.4	3356.5
35°	5203.8	5207.3	5107.6	5015.5	4931.7	4959.2	5127.6	5186.7	5583.2	5443.0	3436.2
37.5°	5670.5	5702.1	5564.7	5392.8	5289.8	5249.9	5401.1	5465.7	5865.7	5781.1	3556.5
40°	6188.7	6200.4	6082.8	5975.6	5787.3	5671.9	5776.3	5846.4	6214.1	6184.6	3696.0
42.5°	6514.4	6539.9	6548.8	6537.8	6396.2	6202.4	6242.3	6275.3	6626.5	6563.2	3839.0
45°	6624.4	6662.2	6790.0	7060.8	7075.9	6884.9	6792.1	6823.7	7075.9	6945.3	3975.7
47.5°	6442.3	6506.9	6742.6	7297.9	7713.7	7728.1	7448.4	7379.0	7485.5	7262.2	4074.7
50°	5971.5	5985.3	6346.1	7150.1	8012.6	8534.3	8244.9	8115.7	7874.5	7496.5	4142.7
52.5°	5243.0	5258.8	5561.2	6463.6	7828.5	9097.8	9176.8	8945.9	8269.7	7678.6	4187.4
55°	3891.9	3983.3	4315.9	5188.0	6955.6	9044.9	9917.7	9786.4	8747.3	7823.0	4257.5
57.5°	2393.0	2309.2	2703.6	3529.7	5231.3	8317.8	10146.5	10189.2	9273.1	7943.9	4375.0
60°	1101.0	1117.5	1280.3	1820.5	3188.8	6506.9	9556.9	9826.3	9563.8	7939.8	4404.6
62.5°	758.7	743.6	702.4	799.3	1454.2	4115.2	8072.4	8528.8	8981.0	7693.1	4287.1
65°	678.3	663.2	583.5	556.7	668.0	1793.7	5868.4	6444.3	7561.8	7070.4	3994.3
67.5°	633.6	613.0	530.6	478.3	477.0	714.1	3460.3	4153.7	5608.6	5977.7	3461.0
70°	586.9	570.4	488.6	430.9	406.2	448.8	1520.9	1991.0	3641.7	4307.7	2696.1
72.5°	540.2	520.9	447.4	385.5	353.2	336.1	582.8	758.0	2057.6	2582.7	1652.8
75°	472.1	462.5	400.0	349.1	314.1	271.5	369.7	422.0	984.1	1186.2	829.5
77.5°	413.0	402.7	355.3	305.1	279.7	220.6	262.5	286.6	415.1	481.1	374.6
80°	302.4	312.7	299.6	269.4	249.5	173.2	176.6	196.6	246.7	272.8	228.9
82.5°	191.7	211.0	230.9	207.5	189.0	136.8	122.3	129.9	168.4	178.7	101.7
85°	80.4	81.8	134.0	126.5	107.9	81.1	73.5	77.7	90.0	94.2	47.4
87.5°	30.9	30.2	47.4	44.0	33.7	23.4	23.4	26.1	35.7	33.0	15.1
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°	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7	2637.7
2.5°	2646.6	2597.8	2500.9	2380.6	2292.7	2193.7	2106.4	2043.9	2020.5	2009.5	1988.9
5°	2644.5	2548.3	2347.6	2137.3	1968.3	1795.1	1648.7	1553.9	1545.6	1482.4	1476.2
7.5°	2645.2	2498.2	2178.6	1869.3	1611.6	1434.3	1313.3	1281.7	1243.9	1234.3	1239.1
10°	2647.3	2434.2	1997.1	1604.0	1354.6	1238.4	1193.1	1180.7	1182.1	1186.2	1186.9
12.5°	2650.0	2372.4	1808.8	1402.7	1210.2	1162.1	1157.3	1168.3	1180.0	1188.9	1191.0
15°	2653.5	2301.6	1625.3	1240.5	1138.1	1134.0	1149.8	1168.3	1184.8	1197.9	1199.9
17.5°	2649.3	2219.1	1471.4	1140.8	1098.2	1118.2	1144.3	1167.6	1182.8	1195.1	1196.5
20°	2639.7	2127.0	1323.0	1070.7	1073.5	1105.8	1134.0	1156.0	1172.4	1178.6	1183.4
22.5°	2602.6	2017.1	1193.8	1016.4	1043.9	1088.6	1122.3	1135.3	1116.8	1103.7	1107.2
25°	2539.4	1874.1	1073.5	972.5	1017.1	1064.5	1098.9	1067.3	1052.2	1046.7	1049.4
27.5°	2460.4	1717.4	982.8	926.4	982.8	1037.7	1028.1	1022.6	1015.8	1006.8	1008.9
30°	2375.1	1564.2	905.8	890.7	945.7	977.3	981.4	990.3	982.8	969.0	974.5
32.5°	2296.1	1419.9	847.4	860.4	919.5	914.7	945.7	956.0	920.9	874.9	876.9
35°	2228.7	1285.8	803.4	830.9	874.9	876.9	907.9	872.1	834.3	812.3	813.7
37.5°	2177.9	1181.4	774.5	805.5	817.8	843.9	827.4	808.9	804.1	789.0	789.6
40°	2147.7	1090.0	756.0	785.5	783.5	801.3	748.4	767.0	773.8	769.0	769.7
42.5°	2117.4	1025.4	736.7	758.0	757.3	722.3	710.6	726.4	744.3	746.4	745.0
45°	2093.4	975.2	716.8	716.1	729.9	674.9	671.4	681.1	706.5	718.9	718.2
47.5°	2066.6	933.3	686.6	667.3	671.4	645.3	639.8	644.0	674.9	694.8	700.3
50°	2032.9	891.4	648.8	622.6	605.5	617.8	619.2	619.9	650.8	673.5	678.3
52.5°	2006.1	859.7	605.5	586.2	565.6	593.1	603.4	604.8	623.3	641.9	645.3
55°	2021.9	841.9	562.9	549.1	530.6	567.7	587.6	590.3	594.5	608.2	610.3
57.5°	2069.3	846.0	528.5	510.6	496.9	537.4	571.1	573.2	570.4	586.9	589.7
60°	2083.7	843.9	503.1	468.0	459.8	505.1	547.1	551.2	550.5	574.5	579.4
62.5°	2023.3	817.8	477.6	432.3	426.8	472.1	513.4	529.9	533.3	567.7	573.9
65°	1881.0	764.2	444.0	394.5	394.5	437.1	481.1	503.8	513.4	559.4	566.3
67.5°	1693.4	701.0	409.6	362.2	360.8	403.4	446.7	470.1	485.2	547.7	551.9
70°	1405.4	615.8	367.0	327.1	327.1	365.6	404.8	433.0	455.0	525.7	525.7
72.5°	962.8	512.0	315.4	287.3	288.0	323.7	363.6	395.2	421.3	481.8	483.1
75°	608.9	400.0	259.1	244.7	247.4	281.1	322.3	355.3	407.5	476.3	478.3
77.5°	323.7	281.1	206.2	202.7	206.2	237.1	283.1	328.5	408.9	413.0	406.2
80°	209.6	199.3	162.9	156.0	157.4	191.1	252.2	312.0	328.5	332.6	317.5
82.5°	114.1	126.5	115.5	108.6	108.6	149.1	215.1	248.1	235.7	195.9	186.9
85°	48.8	59.1	59.8	52.2	50.2	92.1	144.3	135.4	125.8	120.3	118.9
87.5°	13.7	19.2	19.2	14.4	11.0	25.4	28.9	8.2	0.0	0.7	1.4
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)