

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: P451615

Luminaire Tested: **GALN-SA2C-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451615
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-SA2C-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13002 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

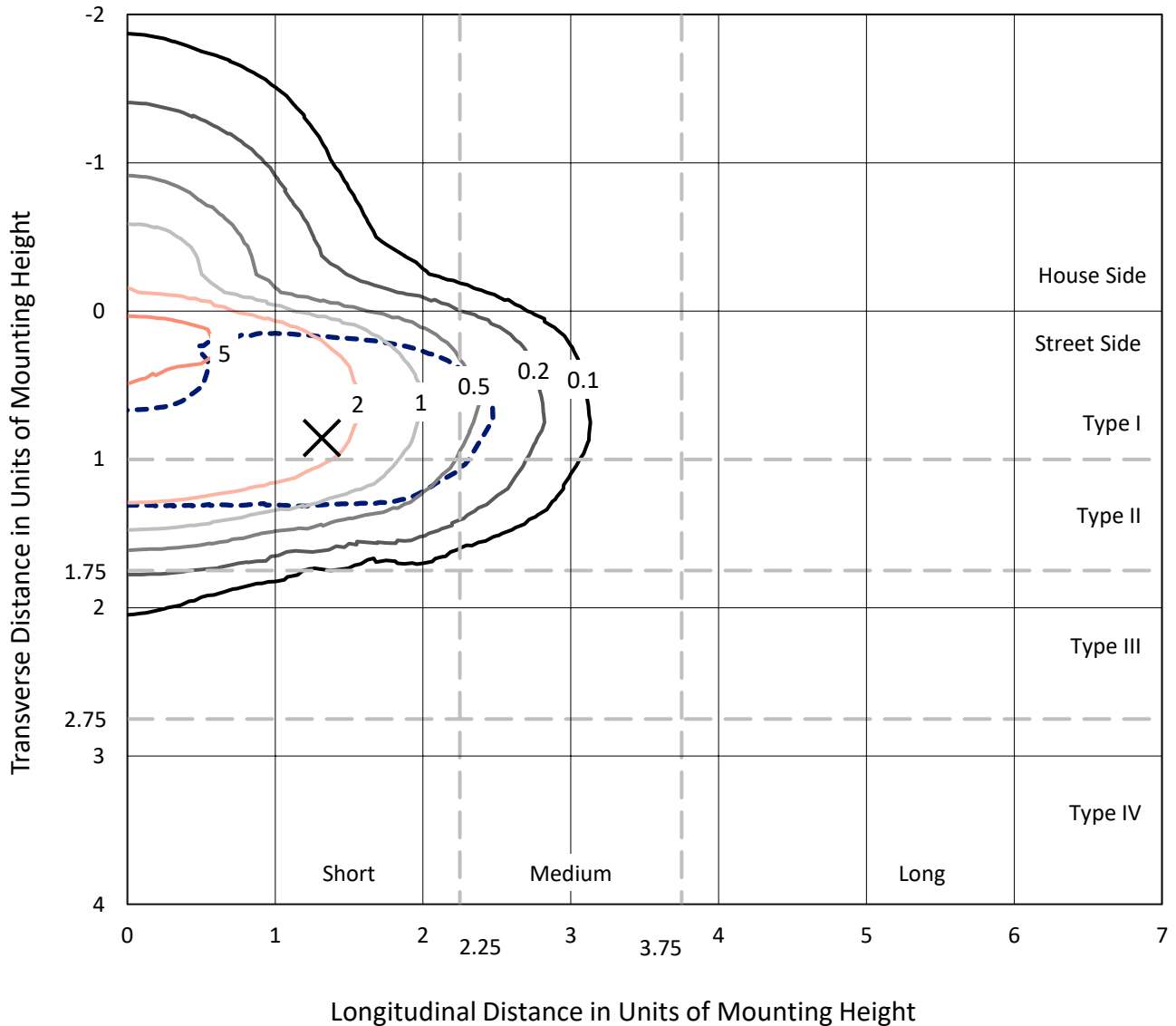
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

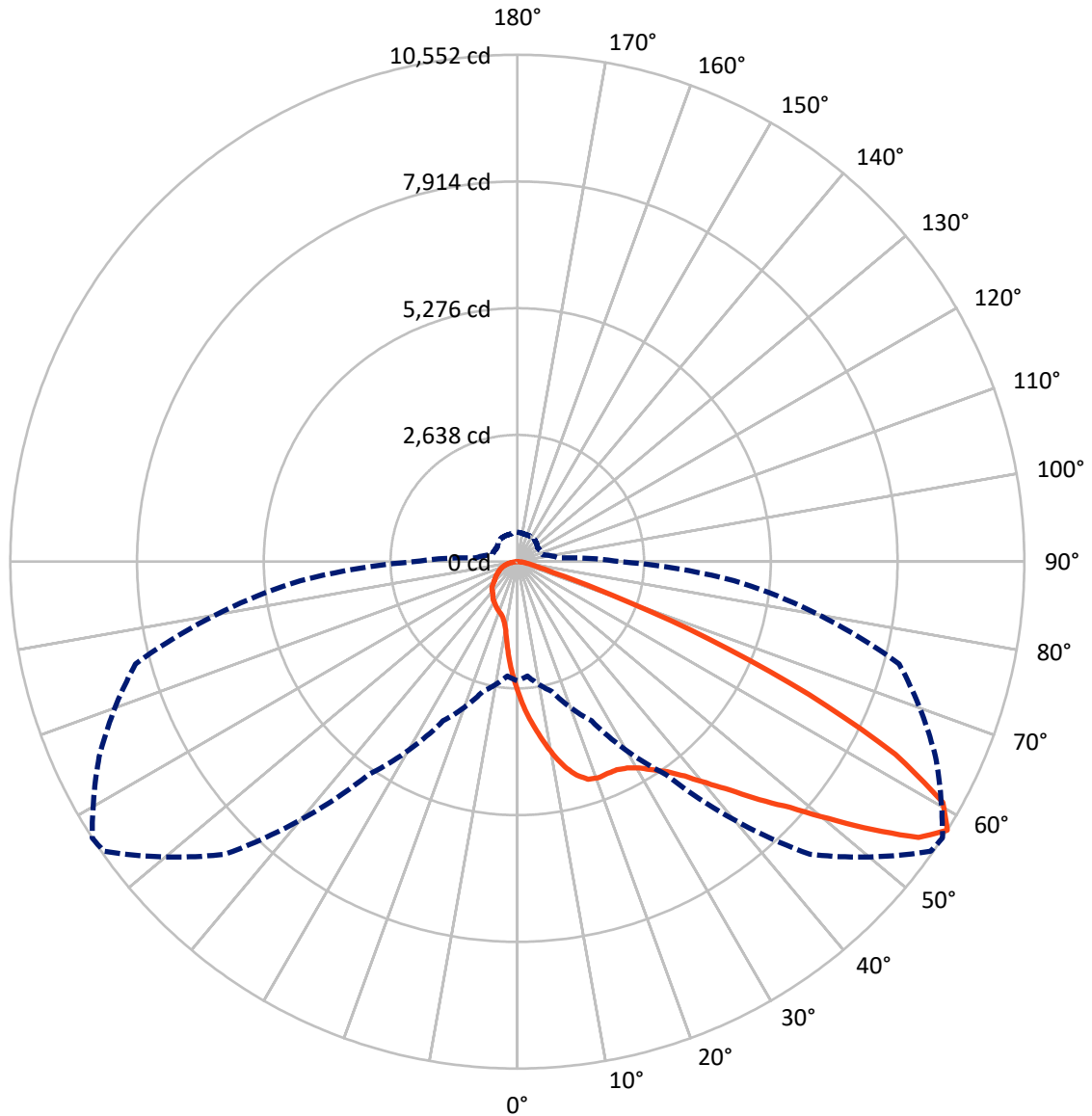
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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
House Side	Lumens	1977.2	0.0	1977.2
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	11024.8	0.0	11024.8
	% Fixture	84.8	0.0	84.8
Total	Lumens	13002.0	0.0	13002.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	262.5	2.0
10°-20°	773.7	6.0
20°-30°	1284.7	9.9
30°-40°	1935.2	14.9
40°-50°	2905.5	22.3
50°-60°	3256.7	25.0
60°-70°	1906.0	14.7
70°-80°	563.8	4.3
80°-90°	114.0	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°	13002.0	100.0
0°-180°	13002.0	100.0

Coefficient of Utilization



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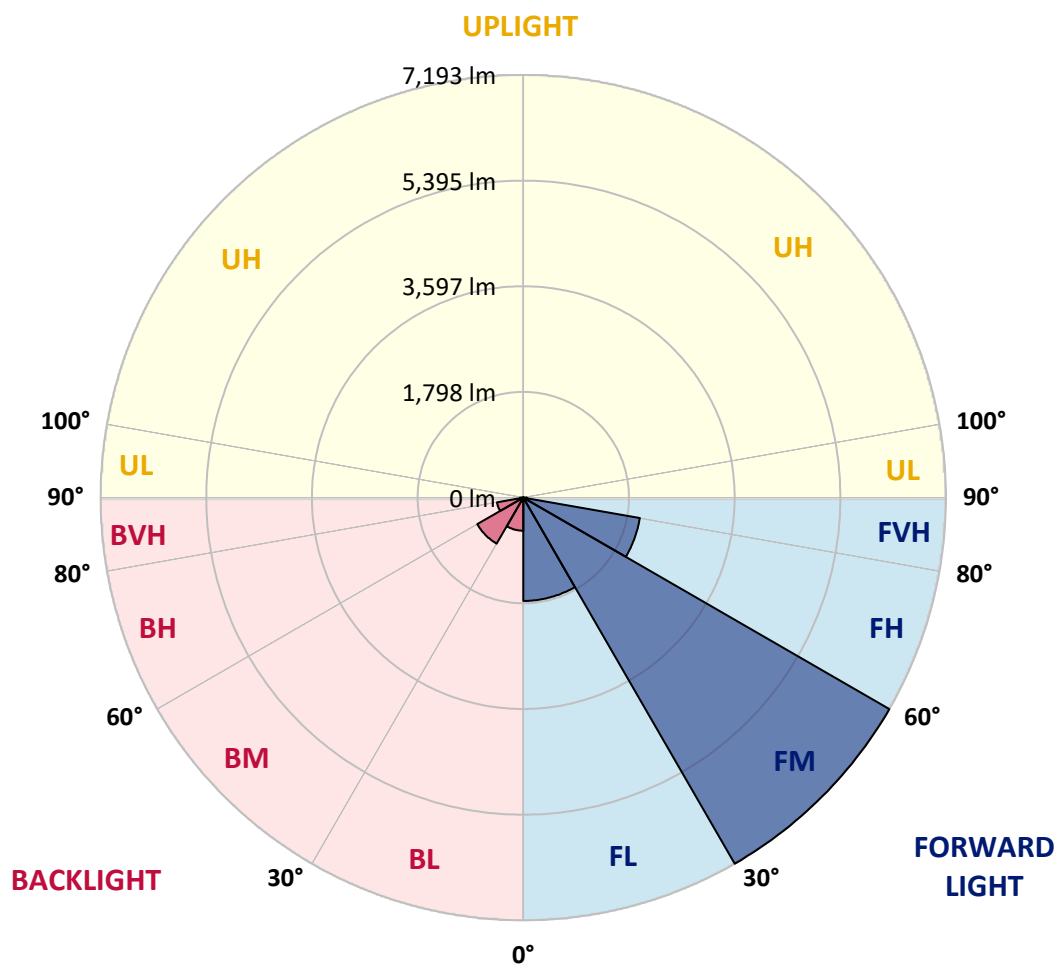
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1757.6	13.5			
FM (30°-60°)	7193.3	55.3			
FH (60°-80°)	2014.8	15.5			G2/5000
FVH (80°-90°)	59.1	0.5			G1/100
BL (0°-30°)	563.4	4.3	B2/1000		
BM (30°-60°)	904.1	7.0	B1/1000		
BH (60°-80°)	455.0	3.5	B1/500		G1/500
BVH (80°-90°)	54.8	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2731.6	2731.6	2731.6	2731.6	2731.6	2731.6	2731.6	2731.6	2731.6	2731.6	2731.6
2.5°	3394.2	3357.2	3328.0	3302.4	3268.9	3178.5	3088.1	3086.7	3014.8	2903.8	2789.9
5°	3947.2	3897.4	3903.8	3824.1	3744.3	3613.4	3421.9	3412.0	3259.0	3051.1	2839.8
7.5°	4307.3	4308.0	4288.1	4242.5	4156.4	4007.7	3790.6	3741.5	3528.7	3213.4	2896.7
10°	4288.8	4308.0	4341.5	4380.6	4407.0	4333.6	4135.8	4076.0	3799.1	3409.8	2960.0
12.5°	4042.6	4072.4	4120.1	4218.3	4377.1	4498.1	4430.4	4382.0	4112.3	3605.6	3029.8
15°	3888.8	3906.6	3933.0	3999.1	4170.0	4459.6	4634.7	4609.1	4407.7	3826.9	3108.1
17.5°	3841.9	3859.6	3868.2	3908.8	4030.5	4327.2	4715.1	4760.7	4669.6	4030.5	3187.1
20°	3888.8	3897.4	3897.4	3921.6	4016.9	4249.7	4711.6	4803.4	4884.5	4274.6	3261.1
22.5°	4012.0	4015.5	4010.5	4019.1	4090.2	4271.0	4678.1	4792.0	5058.2	4481.7	3318.7
25°	4211.9	4217.6	4184.9	4165.0	4216.9	4365.0	4696.6	4801.2	5194.1	4679.5	3357.2
27.5°	4439.0	4446.1	4406.2	4360.0	4384.2	4481.0	4769.2	4863.2	5295.9	4874.6	3381.4
30°	4717.3	4720.1	4653.2	4597.7	4582.0	4653.9	4893.1	4980.6	5422.6	5104.4	3417.7
32.5°	5001.9	5023.3	4937.2	4858.9	4832.6	4854.6	5076.0	5160.7	5573.5	5351.4	3476.0
35°	5389.1	5392.7	5289.5	5194.1	5107.3	5135.8	5310.1	5371.3	5782.0	5636.8	3558.6
37.5°	5872.4	5905.1	5762.8	5584.8	5478.1	5436.8	5593.4	5660.3	6074.5	5987.0	3683.1
40°	6409.0	6421.1	6299.4	6188.4	5993.4	5873.8	5982.0	6054.6	6435.3	6404.7	3827.6
42.5°	6746.4	6772.7	6782.0	6770.6	6624.0	6423.2	6464.5	6498.7	6862.4	6796.9	3975.7
45°	6860.2	6899.4	7031.8	7312.2	7327.8	7130.0	7033.9	7066.6	7327.8	7192.6	4117.3
47.5°	6671.6	6738.5	6982.7	7557.7	7988.3	8003.3	7713.6	7641.7	7752.0	7520.7	4219.8
50°	6184.1	6198.3	6572.0	7404.7	8297.9	8838.1	8538.5	8404.7	8154.9	7763.4	4290.2
52.5°	5429.7	5446.1	5759.2	6693.7	8107.2	9421.7	9503.6	9264.4	8564.1	7952.0	4336.5
55°	4030.5	4125.1	4469.6	5372.8	7203.3	9366.9	10270.8	10134.9	9058.7	8101.5	4409.1
57.5°	2478.2	2391.4	2799.9	3655.4	5417.6	8613.9	10507.8	10551.9	9603.2	8226.7	4530.8
60°	1140.2	1157.3	1325.9	1885.3	3302.4	6738.5	9897.1	10176.1	9904.3	8222.5	4561.4
62.5°	785.7	770.1	727.4	827.7	1506.0	4261.8	8359.8	8832.4	9300.7	7967.0	4439.7
65°	702.5	686.8	604.2	576.5	691.8	1857.6	6077.4	6673.8	7831.0	7322.1	4136.5
67.5°	656.2	634.9	549.4	495.4	493.9	739.5	3583.5	4301.6	5808.3	6190.5	3584.2
70°	607.8	590.7	506.0	446.2	420.6	464.8	1575.0	2061.8	3771.4	4461.0	2792.1
72.5°	559.4	539.5	463.3	399.3	365.8	348.0	603.5	785.0	2130.9	2674.6	1711.7
75°	488.9	479.0	414.2	361.6	325.3	281.1	382.9	437.0	1019.2	1228.4	859.0
77.5°	427.7	417.1	368.0	316.0	289.7	228.5	271.9	296.8	429.9	498.2	387.9
80°	313.2	323.8	310.3	279.0	258.4	179.4	182.9	203.6	255.5	282.6	237.0
82.5°	198.6	218.5	239.1	214.9	195.7	141.6	126.7	134.5	174.4	185.0	105.3
85°	83.3	84.7	138.8	131.0	111.7	84.0	76.2	80.4	93.2	97.5	49.1
87.5°	32.0	31.3	49.1	45.5	34.9	24.2	24.2	27.0	37.0	34.2	15.7
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°	2731.6	2731.6	2731.6	2731.6	2731.6	2731.6	2731.6	2731.6	2731.6	2731.6	2731.6
2.5°	2740.8	2690.3	2589.9	2465.4	2374.3	2271.8	2181.4	2116.6	2092.4	2081.1	2059.7
5°	2738.7	2639.0	2431.2	2213.4	2038.4	1859.0	1707.4	1609.2	1600.7	1535.2	1528.8
7.5°	2739.4	2587.1	2256.1	1935.9	1669.0	1485.4	1360.1	1327.4	1288.2	1278.2	1283.2
10°	2741.5	2520.9	2068.3	1661.1	1402.8	1282.5	1235.5	1222.7	1224.2	1228.4	1229.1
12.5°	2744.4	2456.8	1873.2	1452.6	1253.3	1203.5	1198.5	1209.9	1222.0	1231.3	1233.4
15°	2747.9	2383.5	1683.2	1284.6	1178.6	1174.3	1190.7	1209.9	1227.0	1240.5	1242.7
17.5°	2743.7	2298.1	1523.8	1181.5	1137.3	1158.0	1185.0	1209.2	1224.9	1237.7	1239.1
20°	2733.7	2202.8	1370.1	1108.9	1111.7	1145.2	1174.3	1197.1	1214.2	1220.6	1225.6
22.5°	2695.3	2088.9	1236.3	1052.6	1081.1	1127.4	1162.2	1175.8	1156.5	1143.0	1146.6
25°	2629.8	1940.9	1111.7	1007.1	1053.3	1102.5	1138.0	1105.3	1089.6	1083.9	1086.8
27.5°	2547.9	1778.6	1017.8	959.4	1017.8	1074.7	1064.7	1059.0	1051.9	1042.7	1044.8
30°	2459.7	1619.9	938.0	922.4	979.3	1012.1	1016.3	1025.6	1017.8	1003.5	1009.2
32.5°	2377.8	1470.4	877.5	891.1	952.3	947.3	979.3	990.0	953.7	906.0	908.2
35°	2308.1	1331.6	832.0	860.5	906.0	908.2	940.2	903.2	864.0	841.2	842.7
37.5°	2255.4	1223.4	802.1	834.1	846.9	874.0	856.9	837.7	832.7	817.1	817.8
40°	2224.1	1128.8	782.9	813.5	811.4	829.9	775.1	794.3	801.4	796.4	797.1
42.5°	2192.8	1061.9	763.0	785.0	784.3	748.0	735.9	752.3	770.8	772.9	771.5
45°	2167.9	1009.9	742.3	741.6	755.8	698.9	695.3	705.3	731.6	744.5	743.7
47.5°	2140.1	966.5	711.0	691.1	695.3	668.3	662.6	666.9	698.9	719.5	725.2
50°	2105.3	923.1	671.9	644.8	627.0	639.8	641.3	642.0	674.0	697.5	702.5
52.5°	2077.5	890.4	627.0	607.1	585.7	614.2	624.9	626.3	645.5	664.7	668.3
55°	2093.9	871.9	582.9	568.7	549.4	587.9	608.5	611.4	615.6	629.9	632.0
57.5°	2143.0	876.1	547.3	528.8	514.6	556.6	591.4	593.6	590.7	607.8	610.7
60°	2157.9	874.0	521.0	484.7	476.1	523.1	566.5	570.8	570.1	595.0	600.0
62.5°	2095.3	846.9	494.6	447.7	442.0	488.9	531.7	548.7	552.3	587.9	594.3
65°	1948.0	791.4	459.8	408.5	408.5	452.7	498.2	521.7	531.7	579.3	586.5
67.5°	1753.7	726.0	424.2	375.1	373.7	417.8	462.6	486.8	502.5	567.2	571.5
70°	1455.5	637.7	380.1	338.8	338.8	378.6	419.2	448.4	471.2	544.5	544.5
72.5°	997.1	530.2	326.7	297.5	298.2	335.2	376.5	409.2	436.3	498.9	500.3
75°	630.6	414.2	268.3	253.4	256.2	291.1	333.8	368.0	422.0	493.2	495.4
77.5°	335.2	291.1	213.5	210.0	213.5	245.5	293.2	340.2	423.5	427.7	420.6
80°	217.1	206.4	168.7	161.6	163.0	197.9	261.2	323.1	340.2	344.5	328.8
82.5°	118.1	131.0	119.6	112.5	112.5	154.4	222.8	256.9	244.1	202.8	193.6
85°	50.5	61.2	61.9	54.1	52.0	95.4	149.5	140.2	130.2	124.6	123.1
87.5°	14.2	19.9	19.9	14.9	11.4	26.3	29.9	8.5	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)