

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: P452195

Luminaire Tested: **GALN-SA3A-827-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452195
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-827-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10134 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

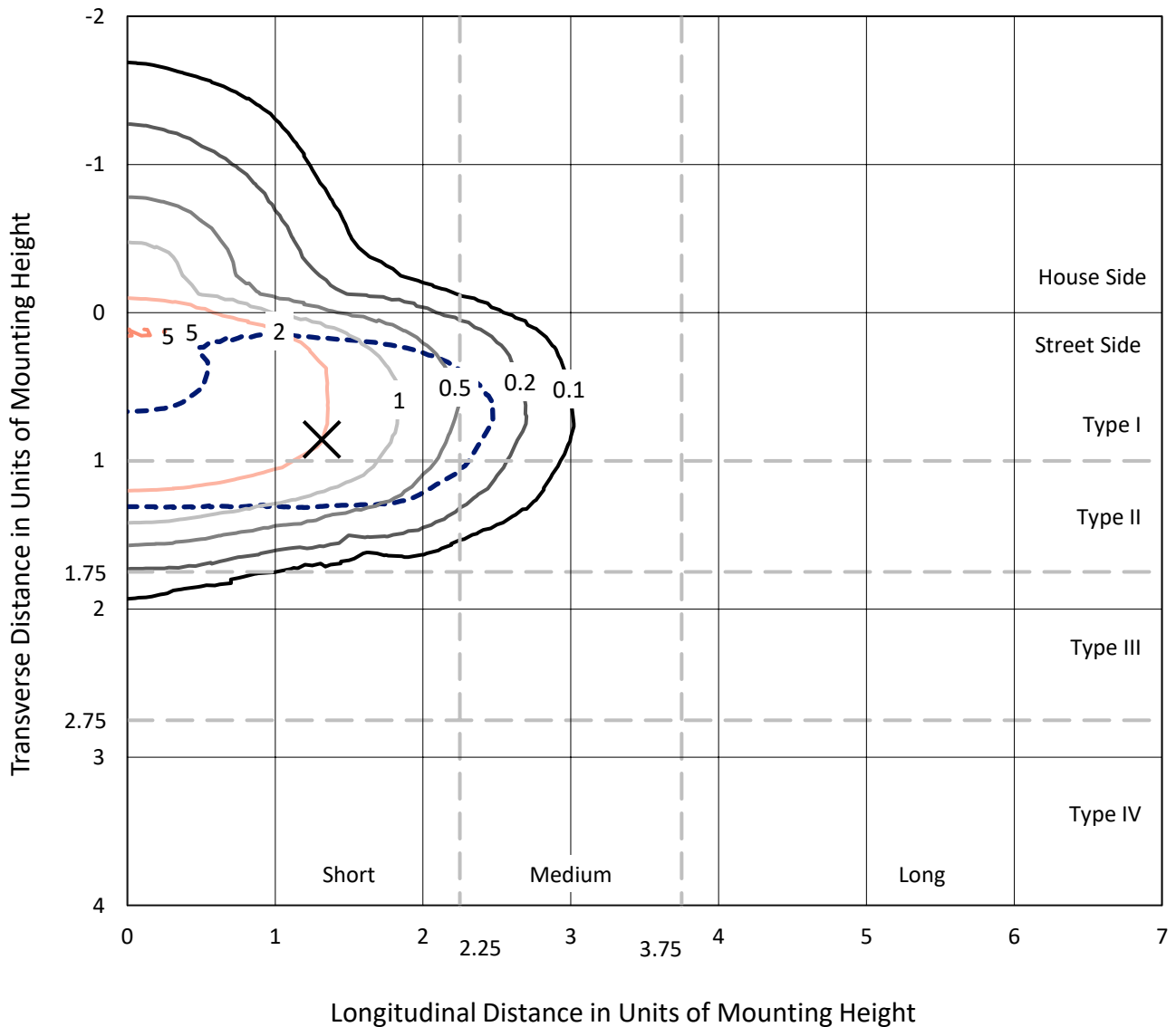
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

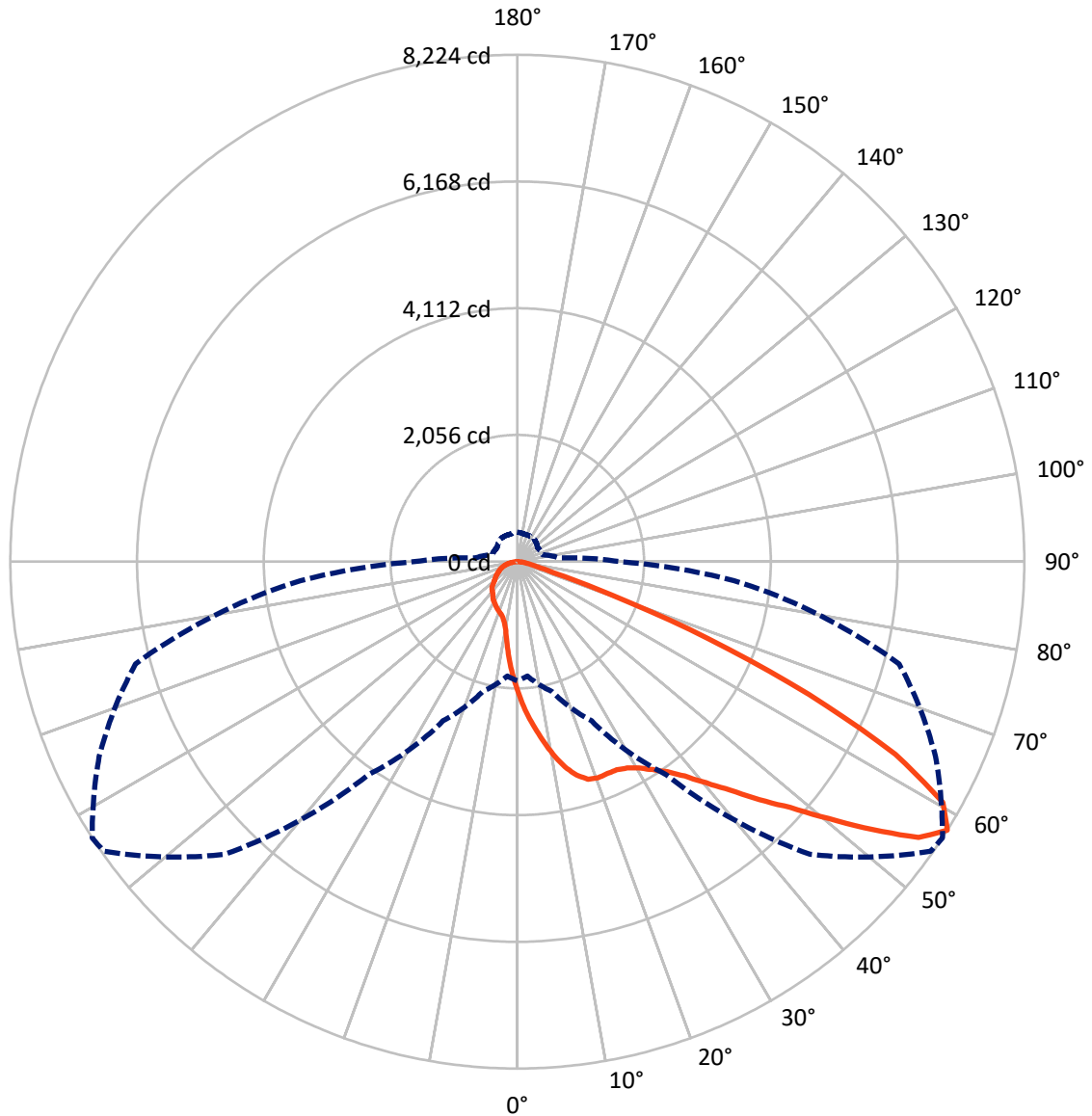
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.2 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	1541.1	0.0	1541.1
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	8592.9	0.0	8592.9
	% Fixture	84.8	0.0	84.8
Total	Lumens	10134.0	0.0	10134.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.6	2.0
10°-20°	603.0	6.0
20°-30°	1001.3	9.9
30°-40°	1508.3	14.9
40°-50°	2264.6	22.3
50°-60°	2538.3	25.0
60°-70°	1485.5	14.7
70°-80°	439.4	4.3
80°-90°	88.8	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°	10134.0	100.0
0°-180°	10134.0	100.0

Coefficient of Utilization



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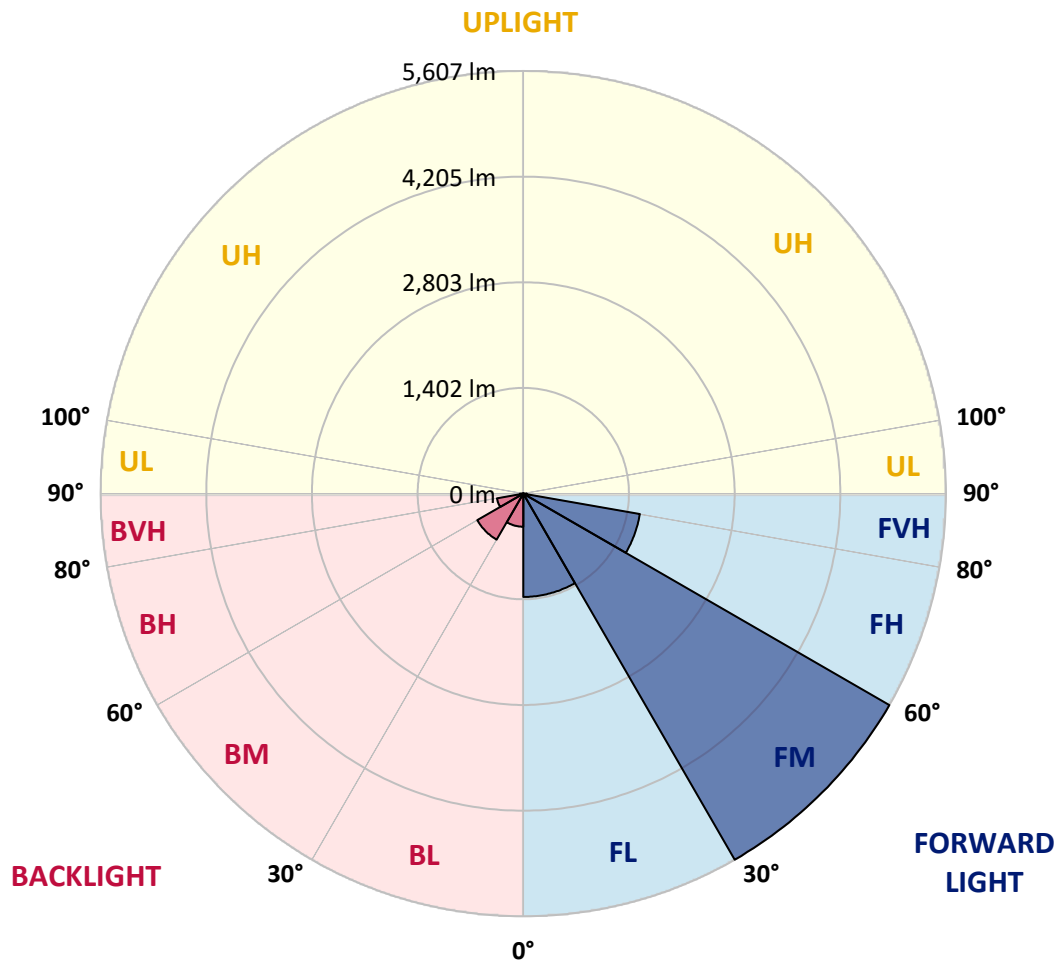
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1369.9	13.5			
FM	(30°-60°)	5606.6	55.3			
FH	(60°-80°)	1570.4	15.5			G1/1800
FVH	(80°-90°)	46.1	0.5			G1/100
BL	(0°-30°)	439.1	4.3	B1/500		
BM	(30°-60°)	704.6	7.0	B1/1000		
BH	(60°-80°)	354.6	3.5	B1/500		G1/500
BVH	(80°-90°)	42.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2129.0	2129.0	2129.0	2129.0	2129.0	2129.0	2129.0	2129.0	2129.0	2129.0	2129.0
2.5°	2645.5	2616.6	2593.9	2573.9	2547.9	2477.4	2407.0	2405.8	2349.8	2263.3	2174.5
5°	3076.5	3037.7	3042.7	2980.5	2918.4	2816.3	2667.1	2659.4	2540.1	2378.1	2213.4
7.5°	3357.2	3357.8	3342.2	3306.7	3239.6	3123.7	2954.5	2916.2	2750.3	2504.6	2257.7
10°	3342.8	3357.8	3383.8	3414.3	3434.9	3377.7	3223.5	3176.9	2961.1	2657.7	2307.1
12.5°	3150.8	3174.1	3211.3	3287.9	3411.6	3505.9	3453.2	3415.4	3205.2	2810.2	2361.5
15°	3031.0	3044.9	3065.4	3117.0	3250.1	3475.9	3612.4	3592.4	3435.4	2982.8	2422.5
17.5°	2994.4	3008.3	3014.9	3046.6	3141.4	3372.7	3675.1	3710.6	3639.6	3141.4	2484.1
20°	3031.0	3037.7	3037.7	3056.5	3130.9	3312.3	3672.3	3743.8	3807.1	3331.7	2541.8
22.5°	3127.0	3129.8	3125.9	3132.5	3188.0	3328.9	3646.2	3735.0	3942.4	3493.1	2586.7
25°	3282.9	3287.3	3261.8	3246.3	3286.8	3402.1	3660.6	3742.2	4048.4	3647.3	2616.6
27.5°	3459.8	3465.4	3434.3	3398.2	3417.1	3492.6	3717.2	3790.4	4127.7	3799.3	2635.5
30°	3676.7	3678.9	3626.8	3583.5	3571.3	3627.4	3813.7	3882.0	4226.5	3978.5	2663.8
32.5°	3898.6	3915.3	3848.1	3787.1	3766.6	3783.8	3956.3	4022.3	4344.1	4171.0	2709.3
35°	4200.4	4203.2	4122.7	4048.4	3980.7	4002.9	4138.8	4186.5	4506.6	4393.4	2773.6
37.5°	4577.0	4602.6	4491.6	4352.9	4269.7	4237.5	4359.6	4411.7	4734.6	4666.4	2870.7
40°	4995.3	5004.7	4909.9	4823.3	4671.3	4578.2	4662.5	4719.1	5015.8	4992.0	2983.3
42.5°	5258.2	5278.8	5286.0	5277.1	5162.8	5006.4	5038.6	5065.2	5348.7	5297.6	3098.7
45°	5347.0	5377.5	5480.7	5699.3	5711.5	5557.2	5482.4	5507.9	5711.5	5606.1	3209.1
47.5°	5200.0	5252.1	5442.4	5890.6	6226.2	6237.9	6012.1	5956.1	6042.1	5861.8	3289.0
50°	4820.0	4831.1	5122.3	5771.4	6467.5	6888.6	6655.0	6550.8	6356.0	6050.9	3343.9
52.5°	4232.0	4244.8	4488.8	5217.2	6318.9	7343.5	7407.3	7220.9	6675.0	6198.0	3379.9
55°	3141.4	3215.2	3483.7	4187.6	5614.4	7300.7	8005.2	7899.3	7060.5	6314.4	3436.5
57.5°	1931.6	1863.9	2182.3	2849.1	4222.6	6713.8	8190.0	8224.4	7484.9	6412.1	3531.4
60°	888.7	902.0	1033.5	1469.5	2573.9	5252.1	7714.0	7931.5	7719.6	6408.7	3555.2
62.5°	612.4	600.2	566.9	645.1	1173.8	3321.7	6515.8	6884.1	7249.2	6209.6	3460.4
65°	547.5	535.3	471.0	449.3	539.2	1447.8	4736.8	5201.7	6103.6	5707.0	3224.1
67.5°	511.5	494.8	428.2	386.1	385.0	576.4	2793.0	3352.8	4527.1	4825.0	2793.6
70°	473.7	460.4	394.4	347.8	327.8	362.2	1227.6	1607.0	2939.5	3477.0	2176.2
72.5°	436.0	420.5	361.1	311.2	285.1	271.3	470.4	611.9	1660.8	2084.7	1334.1
75°	381.1	373.3	322.9	281.8	253.5	219.1	298.4	340.6	794.4	957.5	669.6
77.5°	333.4	325.1	286.8	246.3	225.8	178.1	211.9	231.3	335.1	388.3	302.3
80°	244.1	252.4	241.9	217.5	201.4	139.8	142.6	158.7	199.1	220.2	184.7
82.5°	154.8	170.3	186.4	167.5	152.5	110.4	98.7	104.8	135.9	144.2	82.1
85°	64.9	66.0	108.2	102.1	87.1	65.5	59.4	62.7	72.7	76.0	38.3
87.5°	25.0	24.4	38.3	35.5	27.2	18.9	18.9	21.1	28.8	26.6	12.2
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°	2129.0	2129.0	2129.0	2129.0	2129.0	2129.0	2129.0	2129.0	2129.0	2129.0	2129.0
2.5°	2136.2	2096.9	2018.6	1921.6	1850.6	1770.7	1700.2	1649.8	1630.9	1622.0	1605.4
5°	2134.6	2056.9	1894.9	1725.2	1588.7	1448.9	1330.8	1254.2	1247.6	1196.5	1191.6
7.5°	2135.1	2016.4	1758.5	1508.9	1300.8	1157.7	1060.1	1034.6	1004.1	996.3	1000.2
10°	2136.8	1964.8	1612.0	1294.7	1093.4	999.6	963.0	953.0	954.1	957.5	958.0
12.5°	2139.0	1914.9	1460.0	1132.2	976.9	938.0	934.2	943.0	952.5	959.7	961.3
15°	2141.8	1857.8	1311.9	1001.3	918.6	915.3	928.1	943.0	956.3	966.9	968.6
17.5°	2138.5	1791.2	1187.7	920.8	886.5	902.5	923.6	942.5	954.7	964.7	965.8
20°	2130.7	1716.9	1067.8	864.3	866.5	892.6	915.3	933.0	946.4	951.4	955.2
22.5°	2100.7	1628.1	963.6	820.4	842.6	878.7	905.9	916.4	901.4	890.9	893.7
25°	2049.7	1512.7	866.5	784.9	821.0	859.3	887.0	861.5	849.3	844.8	847.1
27.5°	1985.9	1386.3	793.3	747.8	793.3	837.6	829.9	825.4	819.9	812.7	814.3
30°	1917.1	1262.6	731.1	718.9	763.3	788.8	792.1	799.4	793.3	782.2	786.6
32.5°	1853.3	1146.1	684.0	694.5	742.2	738.3	763.3	771.6	743.3	706.2	707.8
35°	1799.0	1037.9	648.5	670.7	706.2	707.8	732.8	703.9	673.4	655.7	656.8
37.5°	1757.9	953.6	625.2	650.1	660.1	681.2	667.9	652.9	649.0	636.8	637.4
40°	1733.5	879.8	610.2	634.1	632.4	646.8	604.1	619.1	624.6	620.7	621.3
42.5°	1709.1	827.7	594.7	611.9	611.3	583.0	573.6	586.3	600.8	602.4	601.3
45°	1689.7	787.2	578.6	578.0	589.1	544.7	542.0	549.7	570.3	580.2	579.7
47.5°	1668.1	753.3	554.2	538.6	542.0	520.9	516.4	519.8	544.7	560.8	565.3
50°	1640.9	719.5	523.7	502.6	488.7	498.7	499.8	500.4	525.3	543.6	547.5
52.5°	1619.2	694.0	488.7	473.2	456.5	478.7	487.0	488.2	503.1	518.1	520.9
55°	1632.0	679.5	454.3	443.2	428.2	458.2	474.3	476.5	479.8	490.9	492.6
57.5°	1670.3	682.9	426.6	412.2	401.1	433.8	461.0	462.6	460.4	473.7	476.0
60°	1681.9	681.2	406.1	377.8	371.1	407.7	441.6	444.9	444.3	463.8	467.6
62.5°	1633.1	660.1	385.5	348.9	344.5	381.1	414.4	427.7	430.5	458.2	463.2
65°	1518.3	616.9	358.4	318.4	318.4	352.8	388.3	406.6	414.4	451.5	457.1
67.5°	1366.8	565.8	330.6	292.3	291.2	325.6	360.6	379.4	391.6	442.1	445.4
70°	1134.4	497.0	296.2	264.0	264.0	295.1	326.7	349.5	367.2	424.4	424.4
72.5°	777.2	413.3	254.6	231.9	232.4	261.3	293.4	319.0	340.0	388.9	390.0
75°	491.5	322.9	209.1	197.5	199.7	226.9	260.2	286.8	329.0	384.4	386.1
77.5°	261.3	226.9	166.4	163.6	166.4	191.4	228.5	265.2	330.1	333.4	327.8
80°	169.2	160.9	131.5	125.9	127.0	154.2	203.6	251.8	265.2	268.5	256.3
82.5°	92.1	102.1	93.2	87.6	87.6	120.4	173.6	200.3	190.3	158.1	150.9
85°	39.4	47.7	48.3	42.2	40.5	74.3	116.5	109.3	101.5	97.1	96.0
87.5°	11.1	15.5	15.5	11.6	8.9	20.5	23.3	6.7	0.0	0.6	1.1
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)