

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: P528332

Luminaire Tested: **GALN-SA3B-830-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-830-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12180 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

Input Watts (W): 121
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

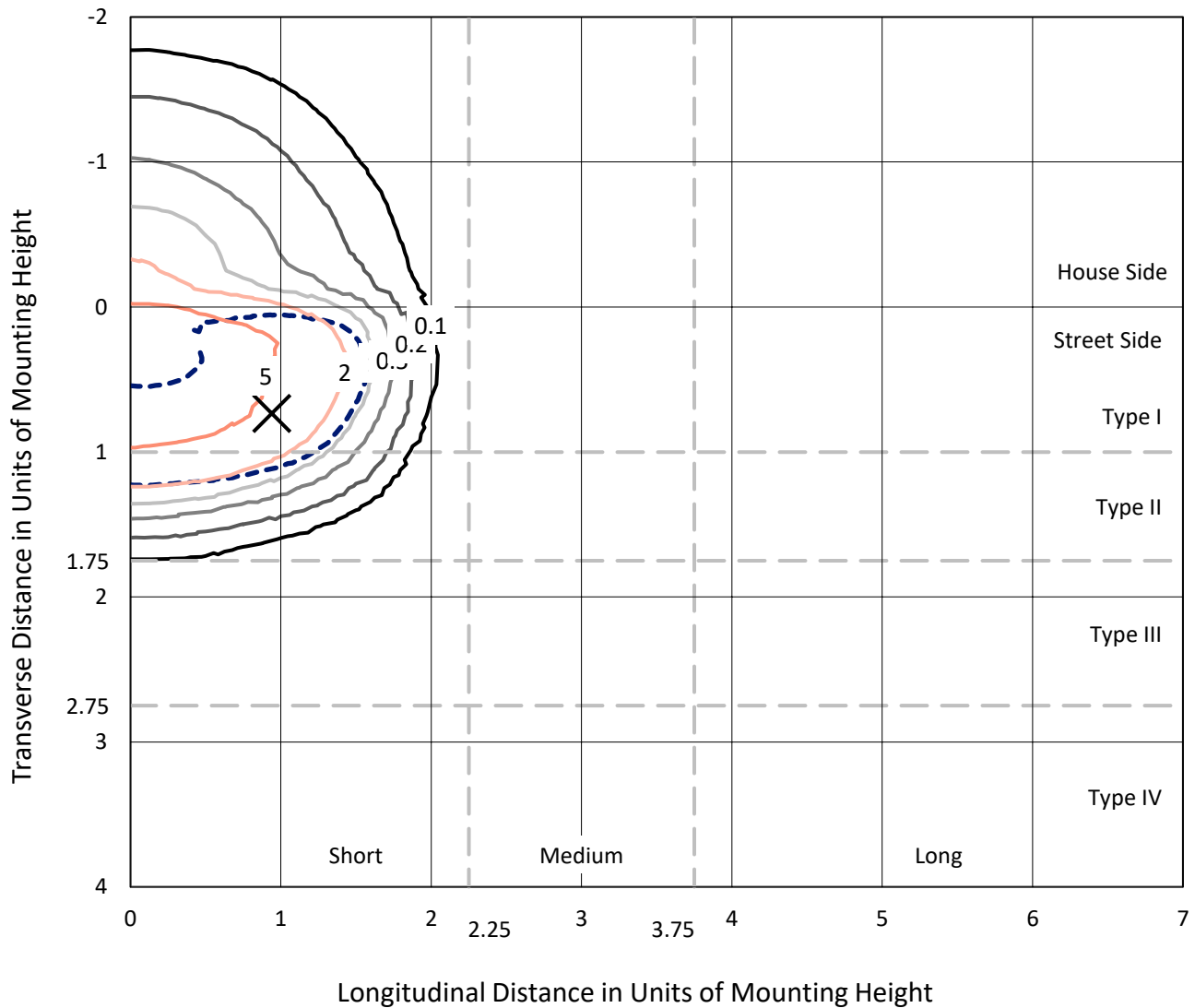


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

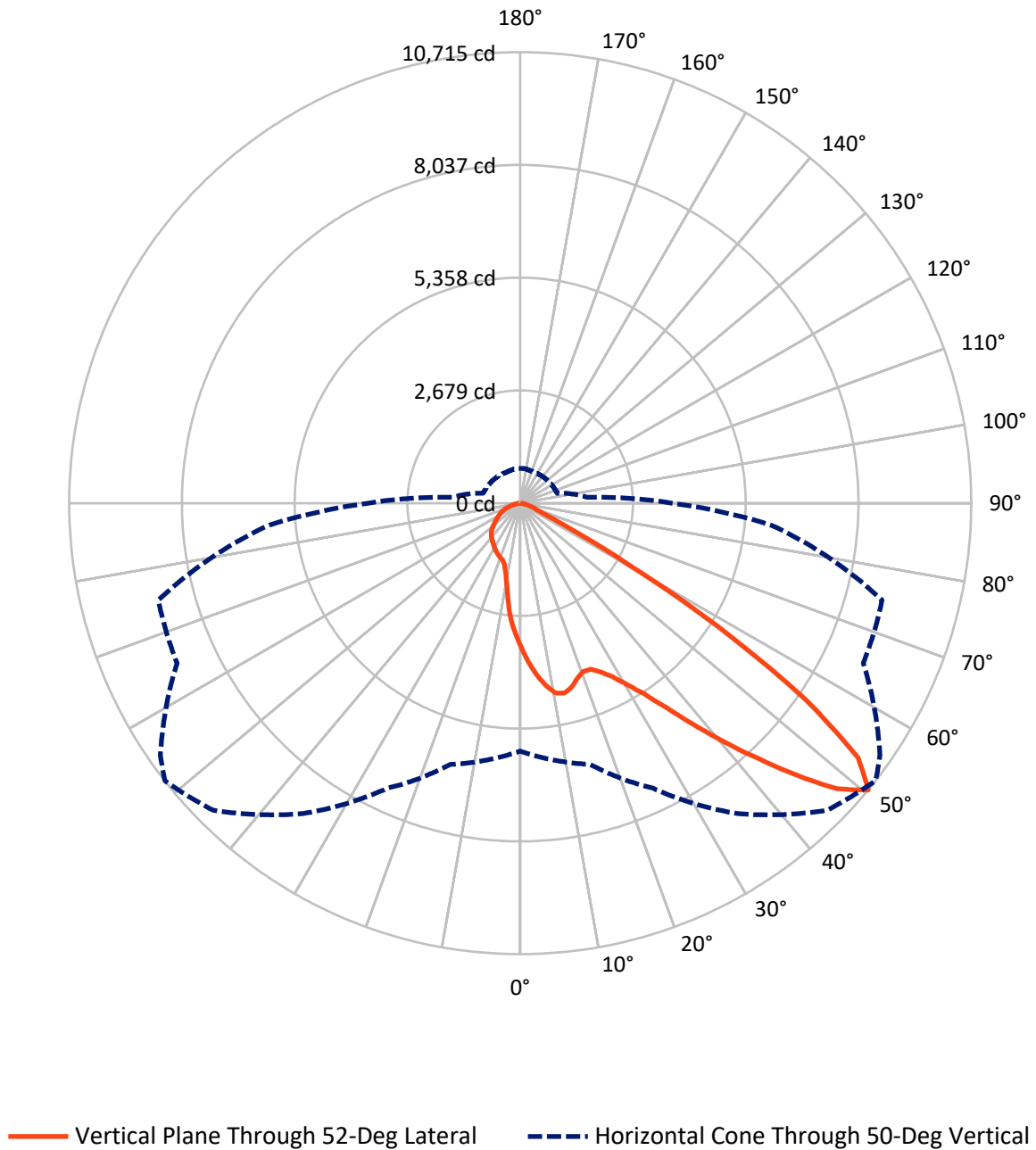


Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2289.5	0.0	2289.5
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9890.5	0.0	9890.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	12180.0	0.0	12180.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.5	2.6
10°-20°	848.2	7.0
20°-30°	1428.7	11.7
30°-40°	2397.5	19.7
40°-50°	3667.5	30.1
50°-60°	2673.9	22.0
60°-70°	595.1	4.9
70°-80°	214.6	1.8
80°-90°	38.0	0.3
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°	12180.0	100.0
0°-180°	12180.0	100.0

Coefficient of Utilization



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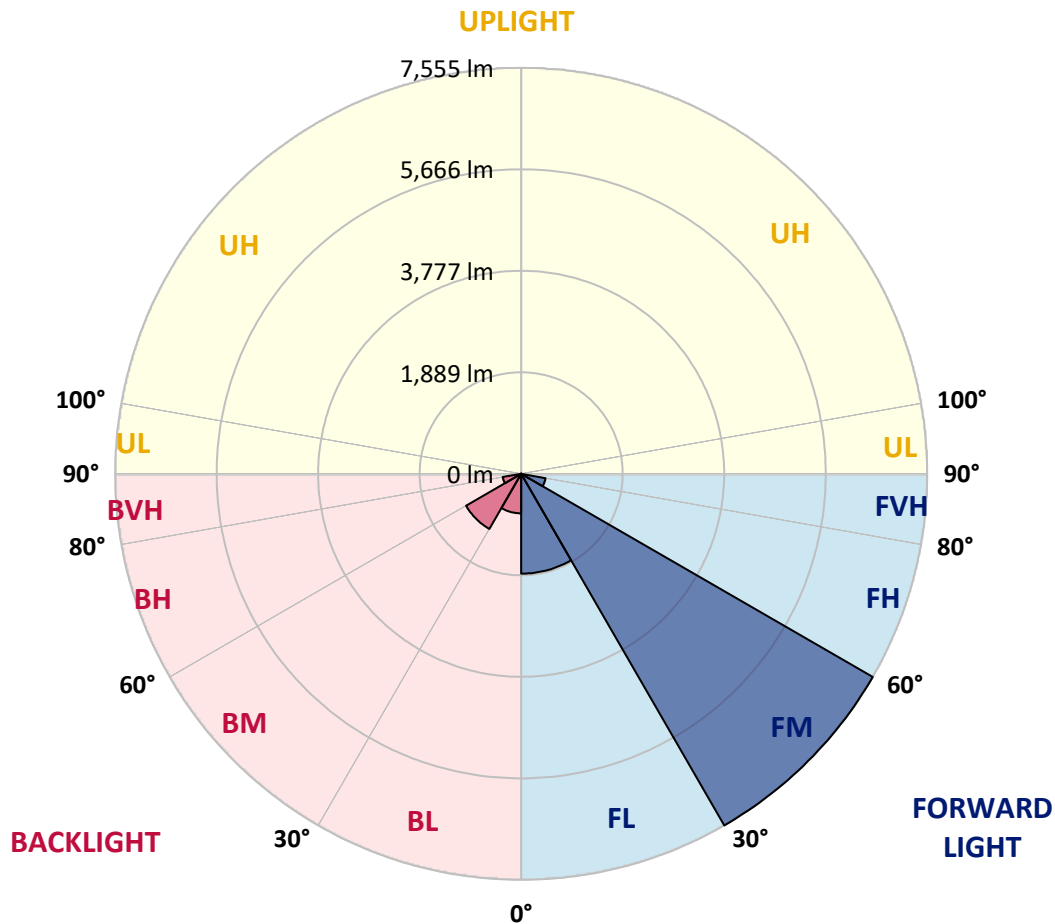
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1857.9	15.3			
FM	(30°-60°)	7554.7	62.0			
FH	(60°-80°)	460.9	3.8			G0/660
FVH	(80°-90°)	17.0	0.1			G1/100
BL	(0°-30°)	735.4	6.0	B2/1000		
BM	(30°-60°)	1184.3	9.7	B2/2500		
BH	(60°-80°)	348.8	2.9	B1/500		G1/500
BVH	(80°-90°)	21.0	0.2			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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	3433.3	3433.3	3433.3	3433.3	3433.3	3433.3	3433.3	3433.3	3433.3	3433.3	3433.3
2.5°	4042.5	3964.7	3973.5	3917.7	3857.6	3839.9	3778.3	3719.6	3675.5	3581.6	3495.0
5°	4418.3	4394.8	4359.6	4315.5	4270.0	4158.5	4095.3	4022.0	3860.5	3715.2	3571.3
7.5°	4472.6	4468.2	4487.3	4487.3	4503.4	4460.8	4371.3	4319.9	4148.2	3911.9	3644.7
10°	4090.9	4104.2	4196.6	4317.0	4484.3	4600.3	4585.6	4572.4	4384.5	4061.6	3731.3
12.5°	3787.1	3757.7	3812.0	3914.8	4165.8	4446.2	4635.5	4637.0	4588.6	4300.8	3794.4
15°	3615.4	3635.9	3650.6	3699.0	3888.4	4212.8	4546.0	4644.3	4857.2	4469.7	3894.3
17.5°	3725.4	3656.5	3653.5	3665.3	3762.1	4005.8	4380.1	4548.9	5004.0	4686.9	4017.6
20°	3869.3	3867.8	3826.7	3812.0	3810.6	4027.8	4271.5	4500.5	5081.8	4968.7	4142.3
22.5°	4121.8	4121.8	4054.2	4022.0	3953.0	4130.6	4286.2	4441.8	5210.9	5162.5	4202.5
25°	4544.5	4475.5	4359.6	4280.3	4240.7	4303.8	4441.8	4581.2	5324.0	5368.0	4327.3
27.5°	4935.0	4826.3	4769.1	4632.6	4579.7	4543.0	4669.3	4810.2	5456.1	5688.0	4394.8
30°	5378.3	5359.2	5256.4	5080.3	4949.6	4882.1	4998.1	5137.5	5698.3	6015.3	4550.4
32.5°	6170.9	5997.7	5858.3	5642.5	5429.6	5285.8	5400.3	5492.8	6100.5	6357.3	4720.7
35°	7026.7	6970.9	6730.2	6341.2	6015.3	5886.1	5953.7	6022.7	6568.7	6879.9	5006.9
37.5°	7867.8	7791.4	7593.3	7265.9	6869.6	6606.9	6655.3	6736.0	7094.2	7584.5	5356.2
40°	8472.5	8378.6	8278.8	8230.3	7836.9	7477.3	7449.4	7470.0	7804.6	8245.0	5743.8
42.5°	8516.6	8632.5	8663.3	8858.6	8766.1	8471.1	8299.3	8303.7	8482.8	8898.2	6135.7
45°	8424.1	8316.9	8544.5	9077.3	9382.6	9520.6	9231.4	9194.7	8902.6	9276.9	6330.9
47.5°	7453.8	7483.2	7867.8	8710.3	9592.5	10209.0	10141.5	10019.7	9127.2	9263.7	6300.1
50°	5892.0	6069.6	6426.3	7475.8	9005.4	10317.6	10715.4	10433.6	8993.6	8899.7	5986.0
52.5°	3923.6	3997.0	4231.9	5586.7	7241.0	9222.6	10054.9	10119.5	8870.3	8422.6	5588.2
55°	1746.8	1740.9	2071.2	2918.1	4543.0	7017.9	8215.6	8609.0	8396.2	7936.8	5200.7
57.5°	739.8	764.8	899.8	1260.9	2234.1	4234.8	5566.2	5911.1	6457.1	6517.3	3989.7
60°	500.5	503.5	540.2	631.2	935.0	1989.0	2919.6	3333.5	3724.0	3697.6	2116.7
62.5°	393.4	403.7	431.6	468.2	554.9	902.7	1306.4	1536.9	1561.8	1313.7	802.9
65°	336.1	337.6	365.5	396.3	434.5	525.5	629.7	641.5	648.8	625.3	590.1
67.5°	277.4	280.4	302.4	337.6	372.8	402.2	431.6	446.2	480.0	546.0	537.2
70°	220.2	224.6	243.7	273.0	305.3	322.9	359.6	372.8	403.7	455.0	475.6
72.5°	167.3	168.8	185.0	205.5	234.9	252.5	283.3	298.0	318.5	362.6	381.6
75°	120.4	124.8	136.5	146.8	151.2	162.9	192.3	208.4	237.8	256.9	258.3
77.5°	63.1	66.1	69.0	69.0	83.7	105.7	124.8	133.6	154.1	168.8	161.5
80°	25.0	26.4	33.8	45.5	58.7	76.3	89.5	93.9	111.6	120.4	124.8
82.5°	14.7	16.1	22.0	32.3	42.6	54.3	64.6	69.0	80.7	91.0	93.9
85°	7.3	8.8	13.2	20.6	27.9	33.8	32.3	30.8	30.8	29.4	30.8
87.5°	2.9	2.9	4.4	4.4	4.4	5.9	7.3	7.3	7.3	8.8	8.8
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°	3433.3	3433.3	3433.3	3433.3	3433.3	3433.3	3433.3	3433.3	3433.3	3433.3	3433.3
2.5°	3437.7	3379.0	3324.7	3224.9	3116.3	3085.5	2959.2	2913.7	2881.4	2843.3	2831.5
5°	3455.4	3377.6	3202.9	3001.8	2841.8	2636.3	2501.2	2355.9	2250.2	2223.8	2216.5
7.5°	3492.1	3358.5	3057.6	2753.7	2426.4	2147.5	1934.6	1820.2	1718.9	1713.0	1702.7
10°	3533.2	3301.2	2899.0	2422.0	2003.6	1745.3	1617.6	1567.7	1542.7	1536.9	1533.9
12.5°	3566.9	3289.5	2721.4	2099.0	1704.2	1548.6	1510.4	1506.0	1516.3	1519.2	1525.1
15°	3581.6	3242.5	2507.1	1809.9	1517.8	1460.5	1476.7	1494.3	1501.6	1520.7	1506.0
17.5°	3609.5	3182.3	2242.9	1580.9	1413.6	1423.8	1451.7	1472.3	1484.0	1497.2	1478.1
20°	3624.2	3128.0	1994.8	1444.4	1376.9	1395.9	1434.1	1450.3	1464.9	1470.8	1448.8
22.5°	3611.0	3016.5	1776.1	1334.3	1341.6	1366.6	1400.3	1418.0	1409.2	1385.7	1372.5
25°	3575.7	2859.4	1548.6	1263.8	1291.7	1335.8	1362.2	1349.0	1332.8	1319.6	1315.2
27.5°	3574.3	2667.1	1384.2	1199.2	1249.2	1309.3	1300.5	1288.8	1296.1	1285.9	1274.1
30°	3581.6	2480.7	1249.2	1162.6	1218.3	1247.7	1258.0	1246.2	1255.0	1235.9	1241.8
32.5°	3543.4	2298.7	1161.1	1120.0	1181.6	1180.2	1213.9	1222.7	1202.2	1162.6	1168.4
35°	3559.6	2151.9	1086.2	1100.9	1140.5	1140.5	1167.0	1156.7	1102.4	1078.9	1084.8
37.5°	3671.1	2008.0	1049.5	1074.5	1100.9	1112.6	1103.8	1059.8	1046.6	1046.6	1049.5
40°	3776.8	1884.7	1027.5	1068.6	1064.2	1071.5	1007.0	1011.4	1011.4	1012.8	1005.5
42.5°	3870.8	1801.1	1009.9	1033.4	1040.7	1002.6	962.9	958.5	968.8	967.3	961.5
45°	3904.5	1732.1	984.9	993.7	999.6	936.5	917.4	908.6	920.4	924.8	930.6
47.5°	3775.4	1674.8	957.0	939.4	927.7	886.6	861.6	845.5	860.2	885.1	891.0
50°	3609.5	1600.0	913.0	879.3	854.3	836.7	819.1	802.9	813.2	830.8	826.4
52.5°	3364.4	1482.5	857.2	822.0	779.4	783.8	767.7	758.9	764.8	764.8	760.4
55°	3015.0	1218.3	763.3	738.3	703.1	714.9	717.8	706.0	694.3	704.6	695.8
57.5°	2057.9	860.2	681.1	681.1	645.9	662.0	660.5	632.7	604.8	607.7	601.8
60°	1190.4	685.5	628.2	622.4	585.7	598.9	601.8	582.7	540.2	543.1	537.2
62.5°	676.7	585.7	549.0	540.2	532.8	544.6	544.6	519.6	482.9	485.9	480.0
65°	575.4	543.1	490.3	488.8	485.9	488.8	477.1	450.6	418.3	405.1	406.6
67.5°	522.6	502.0	450.6	437.4	428.6	427.1	405.1	380.2	365.5	353.8	352.3
70°	458.0	441.8	403.7	386.0	377.2	356.7	334.7	318.5	298.0	292.1	298.0
72.5°	362.6	361.1	346.4	327.3	308.3	292.1	273.0	251.0	231.9	227.5	217.2
75°	251.0	253.9	256.9	253.9	237.8	217.2	195.2	177.6	154.1	140.9	138.0
77.5°	164.4	168.8	173.2	167.3	157.1	138.0	123.3	101.3	83.7	73.4	71.9
80°	120.4	126.2	129.2	124.8	113.0	98.3	82.2	64.6	51.4	42.6	42.6
82.5°	92.5	98.3	101.3	93.9	82.2	70.5	58.7	45.5	35.2	27.9	26.4
85°	32.3	30.8	36.7	38.2	45.5	42.6	35.2	26.4	20.6	14.7	13.2
87.5°	8.8	8.8	10.3	10.3	8.8	7.3	7.3	7.3	5.9	4.4	4.4
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)