

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: P526231

Luminaire Tested: **GALN-SA1A-830-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526231
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1A-830-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2151 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

Input Watts (W): 33
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



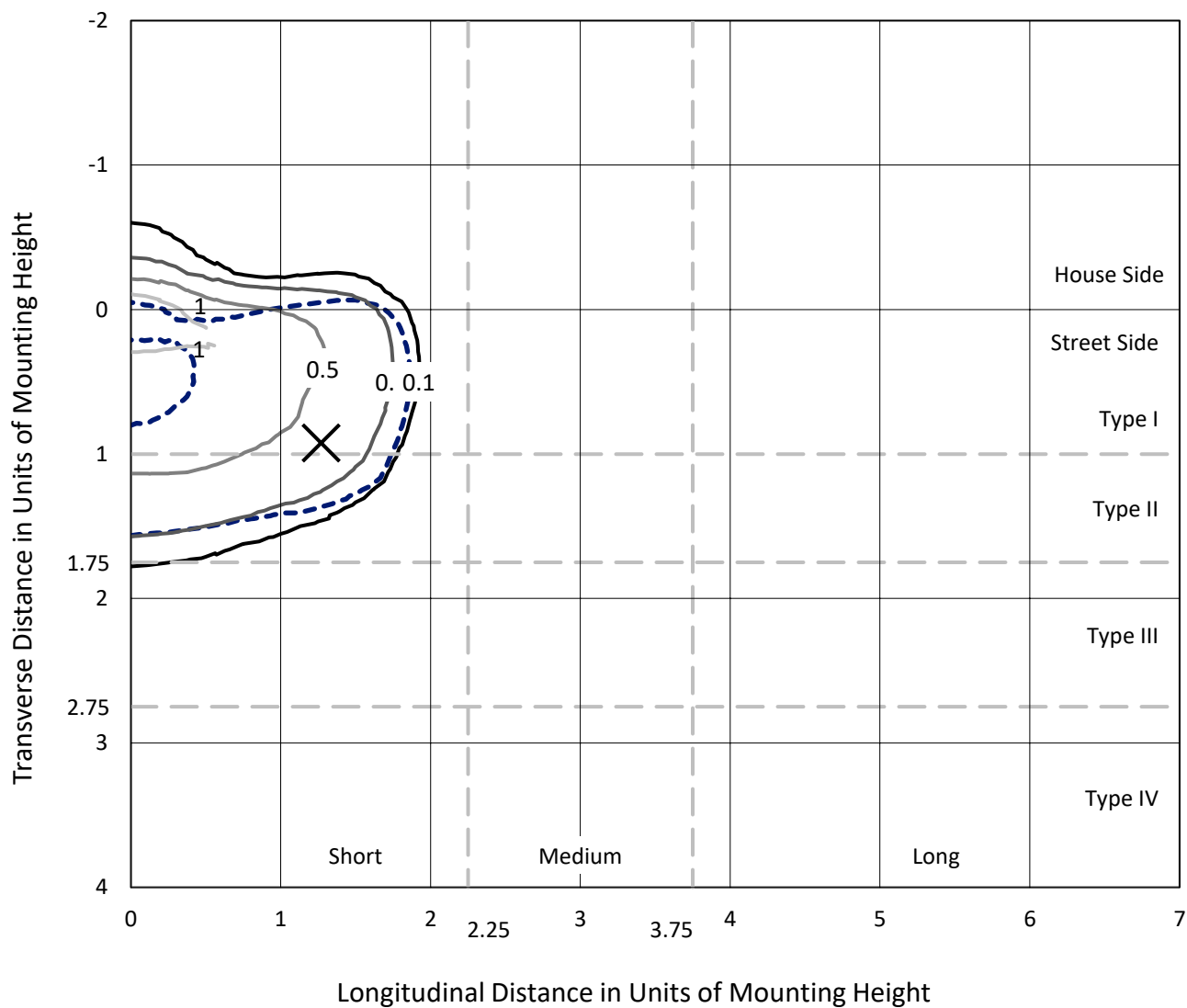
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

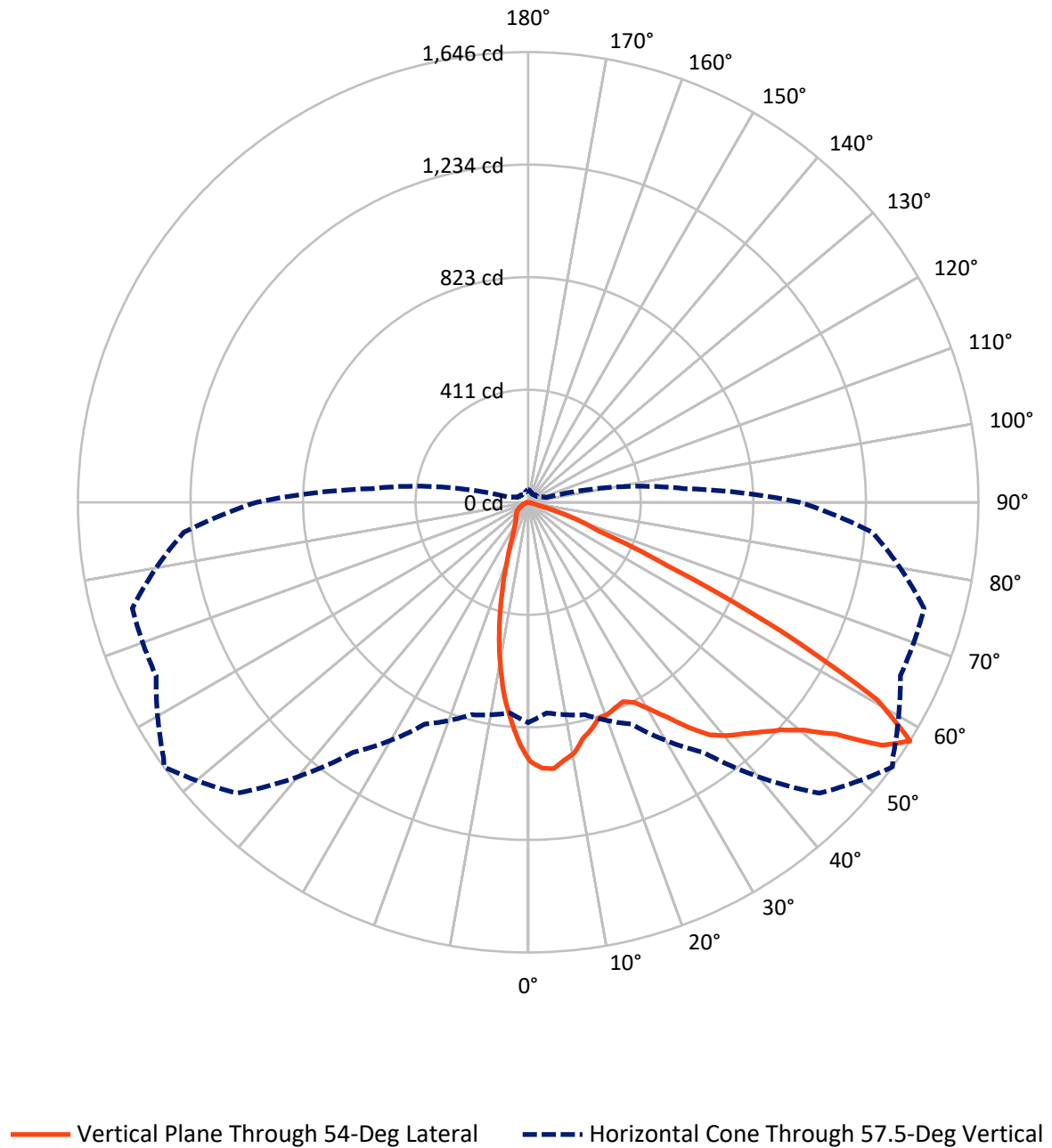


Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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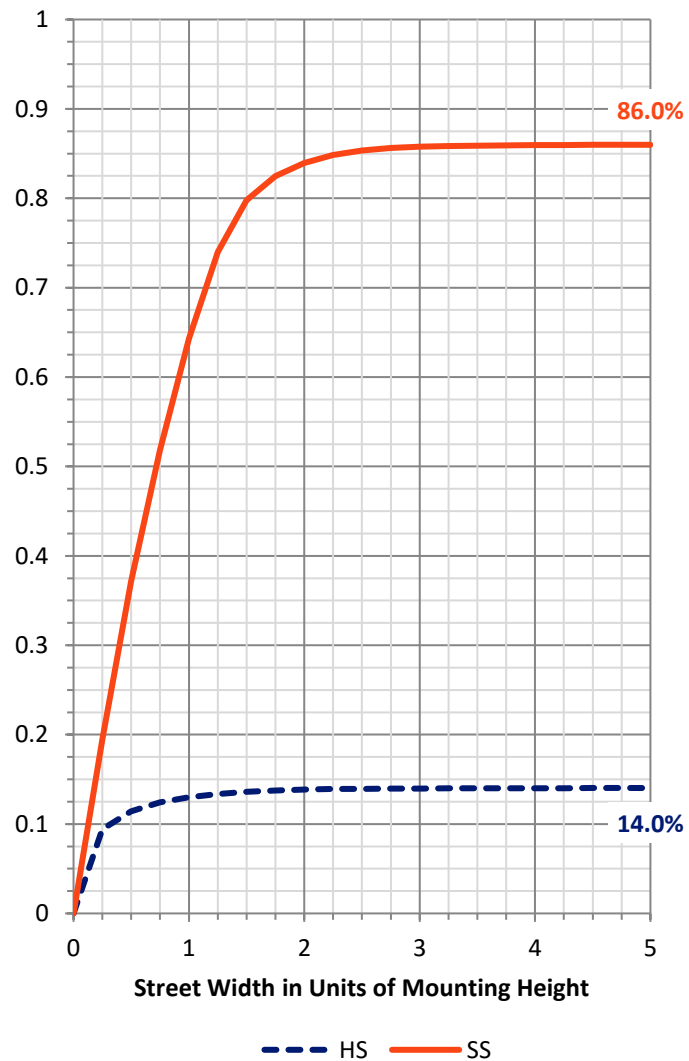
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	304.0	0.0	304.0
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	1847.0	0.0	1847.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	2151.0	0.0	2151.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.3	3.7
10°-20°	169.3	7.9
20°-30°	224.3	10.4
30°-40°	326.0	15.2
40°-50°	483.4	22.5
50°-60°	604.5	28.1
60°-70°	238.5	11.1
70°-80°	23.7	1.1
80°-90°	1.8	0.1
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°	2151.0	100.0
0°-180°	2151.0	100.0

Coefficient of Utilization



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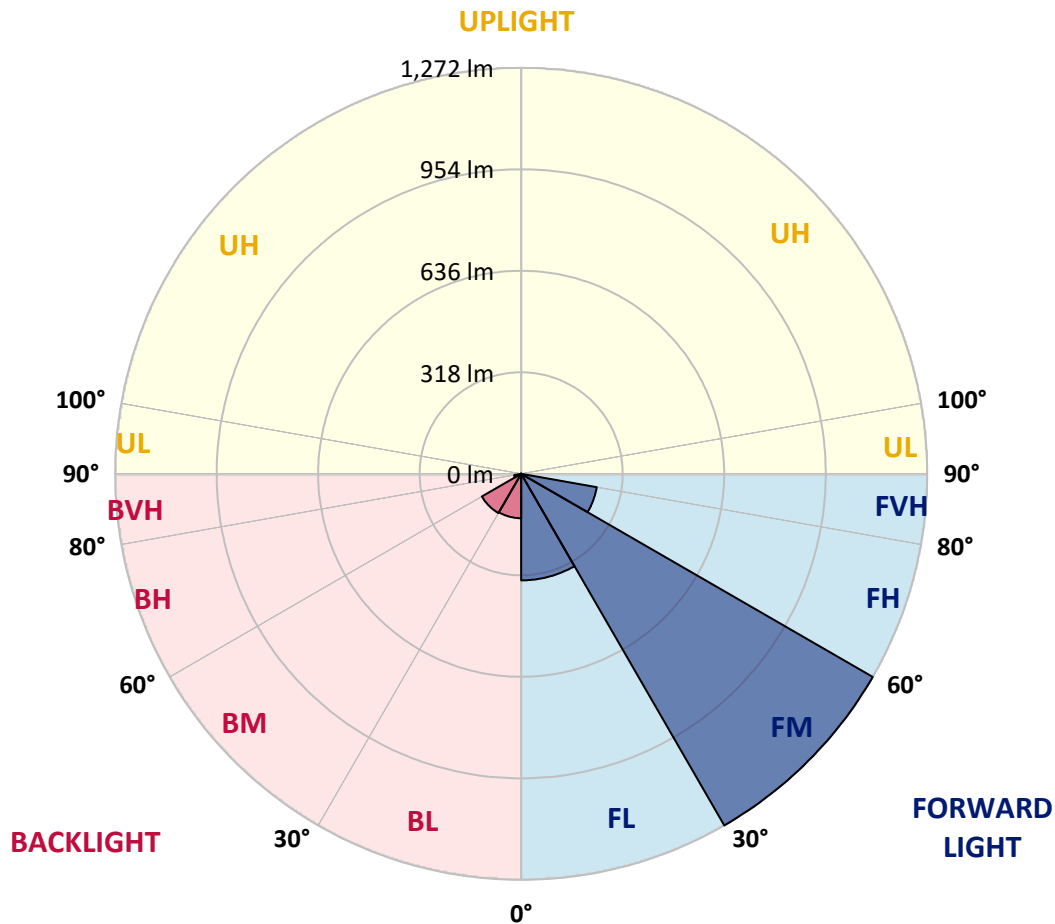
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.9	15.5			
FM	(30°-60°)	1271.9	59.1			
FH	(60°-80°)	240.4	11.2			G0/660
FVH	(80°-90°)	0.8	0.0			G0/10
BL	(0°-30°)	139.0	6.5	B1/500		
BM	(30°-60°)	142.2	6.6	B0/220		
BH	(60°-80°)	21.8	1.0	B0/110		G0/110
BVH	(80°-90°)	1.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5
2.5°	1002.7	992.3	993.1	989.5	984.7	988.3	972.7	976.3	975.9	954.7	940.7
5°	977.5	988.7	977.1	986.7	977.5	987.5	977.9	970.7	959.1	943.5	917.5
7.5°	934.7	923.9	927.1	939.1	941.1	963.5	951.5	960.7	955.9	925.1	889.5
10°	848.8	846.4	862.3	878.3	897.9	921.9	931.1	925.9	922.3	910.7	863.1
12.5°	782.8	789.6	789.2	815.6	848.8	862.3	886.3	885.5	905.5	883.9	838.4
15°	720.0	723.6	740.4	756.8	793.6	832.4	861.9	865.9	889.9	874.7	819.2
17.5°	681.6	676.4	689.6	709.2	746.8	797.6	830.4	840.0	872.7	869.5	797.2
20°	643.6	643.6	654.4	677.6	712.0	769.2	827.6	824.8	872.7	863.5	773.6
22.5°	630.8	637.2	640.0	657.6	698.4	747.6	815.6	820.8	879.5	860.7	763.2
25°	648.4	640.0	640.8	654.8	693.2	737.2	806.8	818.4	891.9	874.7	754.8
27.5°	651.2	659.6	662.0	671.6	697.2	740.4	828.8	852.4	922.7	907.5	757.2
30°	675.6	684.0	683.6	700.0	717.6	766.4	877.9	882.7	986.3	948.7	772.0
32.5°	705.2	714.0	716.8	736.0	750.0	814.0	937.9	950.3	1047.5	1013.5	810.8
35°	742.0	738.8	751.6	770.8	800.8	883.5	1011.1	1031.9	1113.5	1097.5	850.8
37.5°	788.0	784.0	796.4	827.6	868.3	965.9	1078.7	1092.3	1161.5	1175.5	924.7
40°	820.4	822.0	859.5	901.5	944.7	1044.3	1121.5	1134.7	1195.1	1248.3	980.7
42.5°	874.3	884.3	929.5	980.7	1025.9	1103.1	1156.3	1169.1	1210.7	1306.7	1056.3
45°	952.7	948.3	998.3	1055.5	1105.5	1164.3	1197.5	1193.1	1219.9	1364.7	1103.9
47.5°	1053.5	1054.3	1087.5	1136.3	1188.3	1217.5	1243.5	1227.9	1239.1	1425.9	1167.5
50°	1122.3	1128.3	1155.1	1205.1	1231.1	1275.9	1309.1	1299.5	1295.9	1462.7	1207.5
52.5°	1139.9	1157.9	1172.3	1234.7	1295.5	1366.3	1408.7	1429.1	1365.1	1475.1	1258.3
55°	1007.1	1023.1	1073.9	1159.5	1319.9	1509.5	1567.9	1568.3	1455.5	1530.3	1293.9
57.5°	805.2	772.8	804.0	894.7	1115.9	1503.5	1645.5	1626.7	1500.7	1497.9	1263.1
60°	556.8	548.8	550.8	586.8	772.4	1195.9	1466.3	1490.7	1381.9	1298.3	999.9
62.5°	441.2	434.4	425.6	421.6	479.6	745.2	1034.3	1068.7	966.3	842.0	592.8
65°	345.6	341.6	342.8	358.8	358.4	422.8	565.6	551.6	441.6	326.4	186.4
67.5°	233.2	239.2	244.0	292.4	317.2	294.4	273.2	265.2	143.6	60.4	41.2
70°	131.2	132.0	137.2	182.8	240.8	228.4	188.4	188.4	71.6	22.0	23.6
72.5°	71.6	69.2	64.4	78.8	107.2	108.8	84.0	73.2	21.2	14.4	13.2
75°	34.8	34.4	29.6	24.4	23.2	19.2	14.8	13.6	9.6	9.2	8.0
77.5°	7.2	6.8	3.6	3.6	4.0	4.4	5.6	5.6	6.8	6.8	5.6
80°	0.0	0.0	0.4	1.6	2.8	4.0	4.8	4.8	5.6	5.6	4.4
82.5°	0.0	0.0	0.4	1.2	2.4	3.6	4.4	4.8	5.6	6.0	4.8
85°	0.0	0.0	0.0	0.8	2.0	2.8	2.4	2.4	2.0	1.6	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5	947.5
2.5°	933.5	932.7	914.3	903.9	885.1	868.7	855.5	846.0	846.0	840.0	834.4
5°	907.1	900.3	861.1	836.0	800.4	774.0	756.0	742.0	720.0	726.0	702.4
7.5°	874.3	857.1	805.2	766.8	717.6	680.0	641.6	607.6	574.8	560.0	568.0
10°	839.2	809.2	739.2	678.4	617.2	548.4	503.6	449.2	415.6	413.6	404.8
12.5°	802.0	768.0	682.8	598.8	518.4	435.6	367.2	316.4	293.6	268.4	273.2
15°	774.0	723.6	620.0	518.8	412.0	328.4	259.6	220.4	198.8	192.8	190.8
17.5°	743.6	689.6	556.0	433.6	323.2	236.4	186.8	168.0	159.6	159.6	158.4
20°	712.0	651.2	492.4	354.4	242.4	176.4	149.6	143.6	143.2	142.8	142.8
22.5°	691.2	607.2	434.8	281.6	182.8	141.2	130.0	127.6	129.2	134.0	134.0
25°	669.2	564.8	371.2	217.2	141.6	121.2	114.8	116.4	120.4	124.8	123.2
27.5°	646.8	537.2	311.2	170.4	116.0	106.0	103.6	107.2	111.6	115.6	114.4
30°	641.6	507.6	254.4	129.2	99.6	92.4	94.0	97.2	101.6	103.2	104.8
32.5°	649.6	484.4	208.4	106.0	86.8	84.8	84.8	86.4	89.2	92.8	91.6
35°	672.4	471.2	164.8	92.0	79.6	77.6	77.2	78.8	80.4	81.6	80.4
37.5°	707.2	460.8	134.8	81.6	74.8	71.6	70.8	70.4	72.0	72.4	73.2
40°	751.6	466.4	114.4	75.2	70.0	66.4	64.0	64.0	64.0	65.2	65.6
42.5°	799.6	474.0	98.8	71.6	65.6	61.2	58.8	58.0	58.8	60.4	60.0
45°	850.0	488.8	88.8	66.0	61.6	56.0	52.8	52.0	54.0	57.2	56.8
47.5°	897.1	510.0	81.2	62.4	57.6	52.4	48.4	47.6	51.2	55.6	56.0
50°	944.3	546.8	78.4	59.6	54.8	48.8	45.2	44.4	48.4	54.0	55.2
52.5°	998.7	586.4	76.4	56.0	51.6	46.0	42.0	41.2	45.6	52.8	53.2
55°	1034.3	620.0	74.8	49.6	45.6	41.6	38.4	38.0	42.8	49.2	50.8
57.5°	992.7	573.2	69.2	43.2	38.8	36.8	34.0	34.0	38.0	44.0	45.2
60°	752.8	377.2	49.2	34.8	32.8	31.6	30.4	30.4	33.6	38.0	38.4
62.5°	440.8	203.2	31.6	28.0	28.0	26.8	24.8	24.8	28.0	30.4	30.8
65°	130.8	65.2	25.6	24.0	23.6	21.6	19.6	19.2	21.6	22.8	22.4
67.5°	37.6	30.0	21.2	20.0	19.6	16.4	15.2	14.8	15.2	14.4	14.0
70°	22.4	20.4	16.4	16.8	14.8	12.0	10.8	10.4	9.6	8.4	7.6
72.5°	12.4	12.4	12.0	12.8	10.4	8.0	6.8	5.6	4.4	3.6	3.2
75°	7.6	8.0	8.4	8.8	6.8	5.2	4.4	2.8	1.6	0.8	0.8
77.5°	5.2	5.6	6.0	6.4	5.6	4.8	3.6	2.0	0.4	0.0	0.0
80°	4.0	4.4	5.2	5.6	6.0	6.4	4.8	2.0	0.4	0.0	0.0
82.5°	4.4	4.8	6.0	5.6	5.6	5.6	4.4	2.0	0.4	0.0	0.0
85°	0.8	1.2	2.0	2.0	2.8	3.6	2.8	0.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)