

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: P451042

Luminaire Tested: **GALN-SA1D-827-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451042
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-18)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-827-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5632 lumens
Efficiency: N/A
Efficacy: 86.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

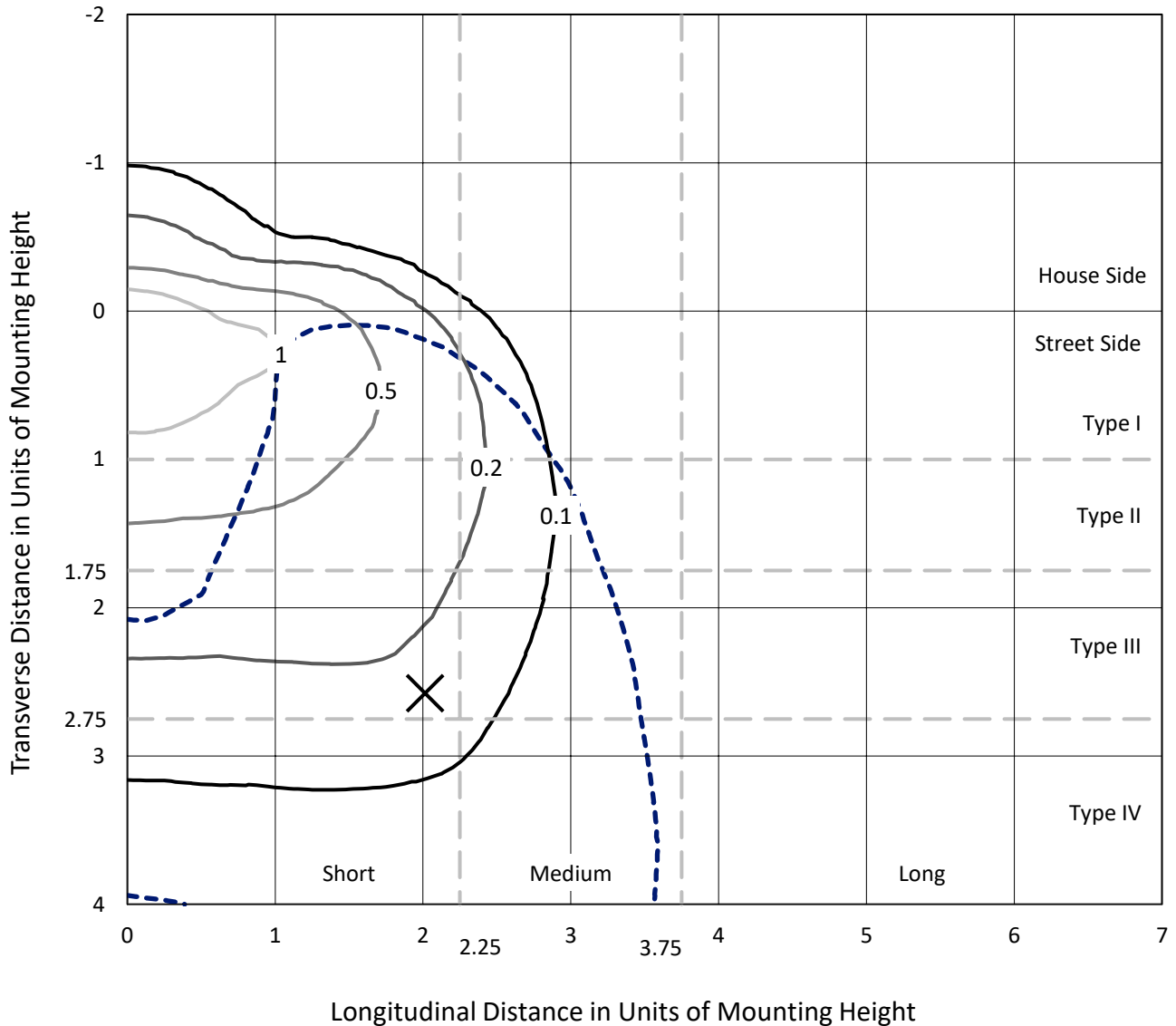
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

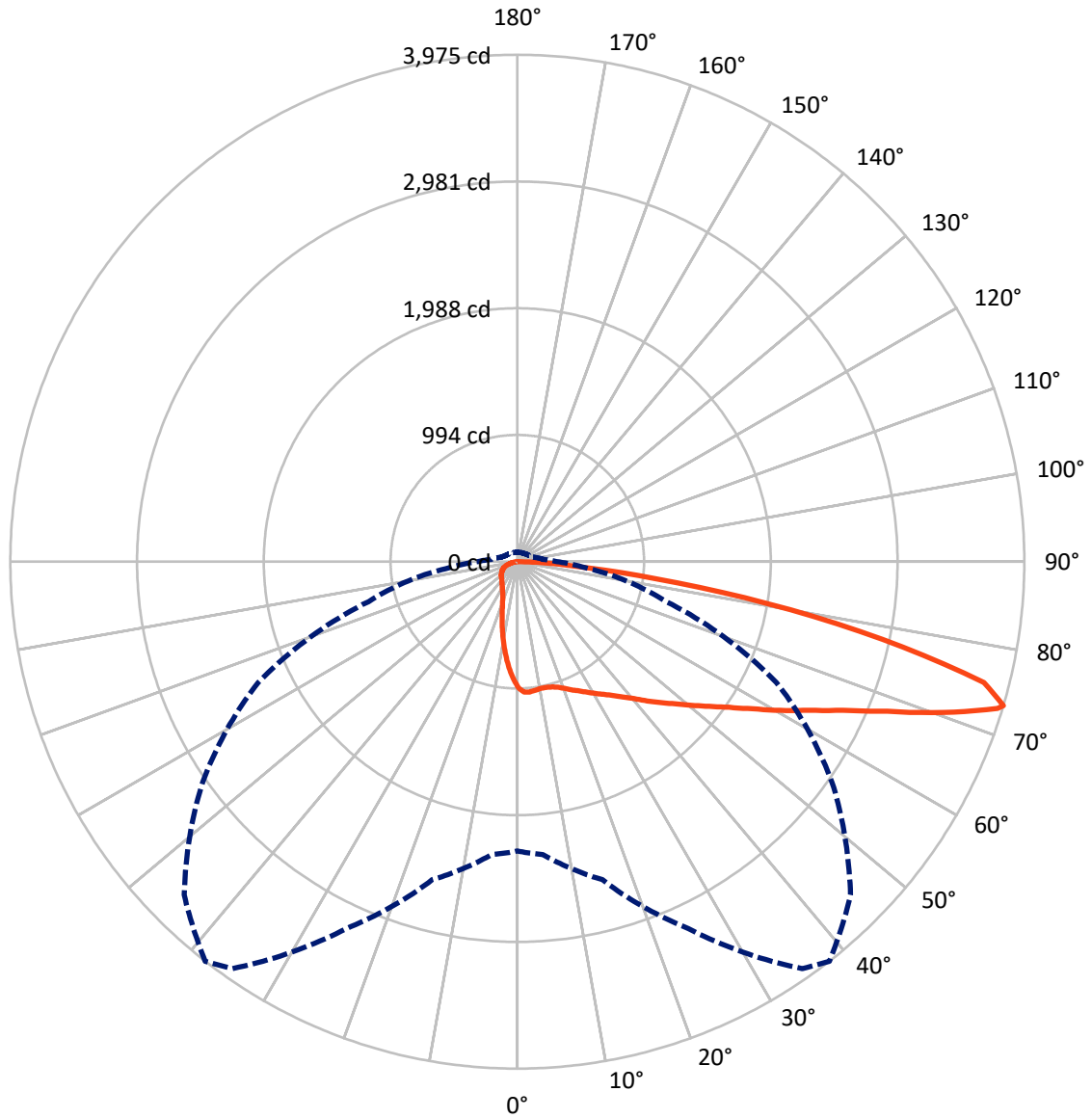
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	757.1	0.0	757.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	4874.9	0.0	4874.9
	% Fixture	86.6	0.0	86.6
Total	Lumens	5632.0	0.0	5632.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.4	1.5
10°-20°	221.5	3.9
20°-30°	344.9	6.1
30°-40°	505.9	9.0
40°-50°	750.4	13.3
50°-60°	1063.1	18.9
60°-70°	1348.6	23.9
70°-80°	1122.6	19.9
80°-90°	188.6	3.3
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°	5632.0	100.0
0°-180°	5632.0	100.0

Coefficient of Utilization



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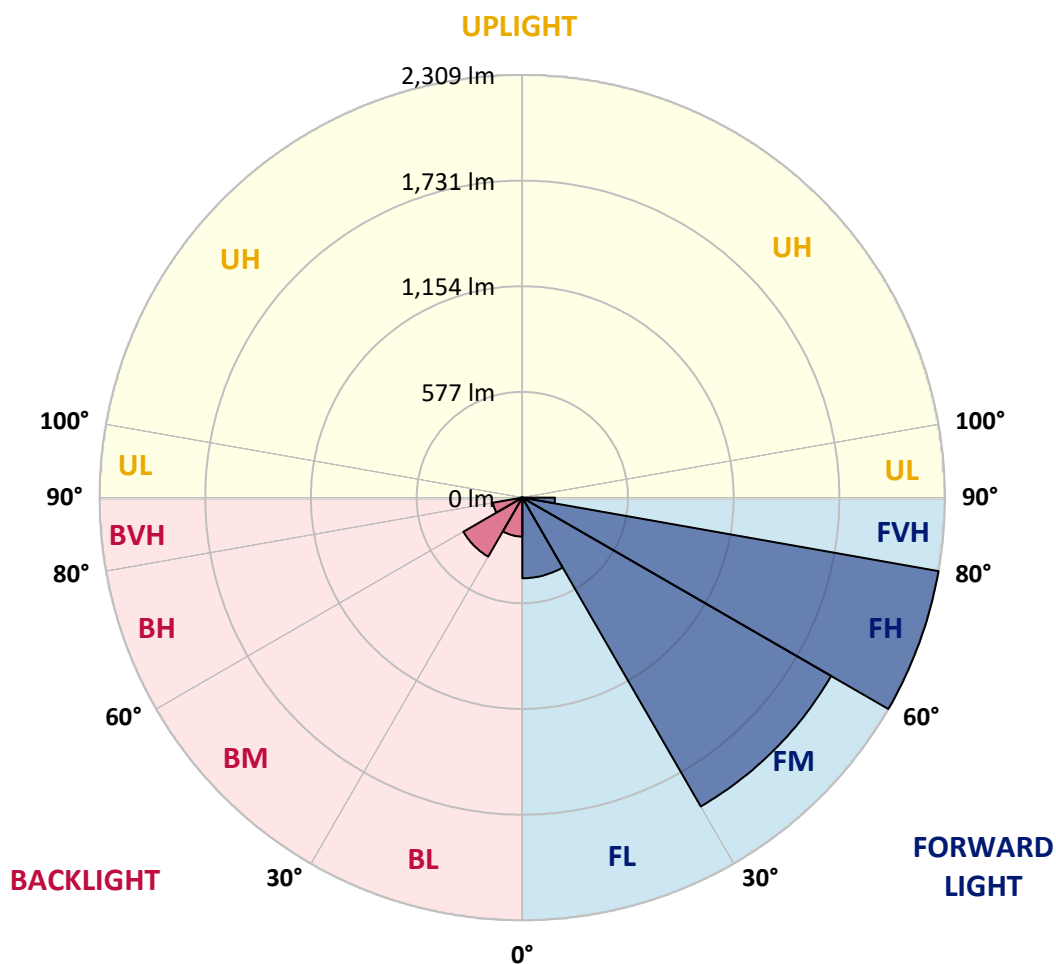
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	440.3	7.8			
FM	(30°-60°)	1947.7	34.6			
FH	(60°-80°)	2308.5	41.0			G2/5000
FVH	(80°-90°)	178.4	3.2			G2/225
BL	(0°-30°)	212.5	3.8	B1/500		
BM	(30°-60°)	371.7	6.6	B1/1000		
BH	(60°-80°)	162.7	2.9	B1/500		G1/500
BVH	(80°-90°)	10.2	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4
2.5°	1029.2	1034.3	1031.7	1028.2	1026.0	1023.8	1020.6	1011.4	1004.1	996.1	983.7
5°	1036.8	1040.0	1037.8	1033.3	1028.2	1026.0	1020.0	1007.9	996.1	982.8	964.3
7.5°	1032.4	1033.7	1031.1	1025.7	1021.3	1017.1	1010.1	996.8	982.4	966.2	942.1
10°	1016.5	1021.3	1021.3	1016.8	1012.3	1010.1	1003.1	990.4	977.4	958.9	930.3
12.5°	1003.4	1008.5	1012.7	1011.4	1011.1	1011.1	1005.7	996.1	980.9	963.4	929.3
15°	994.5	1000.6	1009.5	1014.6	1017.8	1018.7	1016.5	1008.2	992.6	972.3	933.2
17.5°	992.6	999.9	1016.2	1027.3	1035.6	1035.2	1034.6	1023.2	1006.0	985.0	937.9
20°	1001.2	1010.8	1033.3	1050.8	1062.9	1060.7	1057.2	1042.2	1022.2	998.7	942.4
22.5°	1027.0	1036.8	1061.6	1080.7	1092.5	1092.5	1082.0	1062.3	1041.0	1014.6	948.4
25°	1063.9	1074.7	1101.1	1120.5	1125.9	1121.8	1111.3	1087.4	1062.9	1037.5	961.1
27.5°	1109.0	1122.1	1146.6	1162.8	1161.2	1158.0	1147.2	1116.7	1092.2	1069.0	982.8
30°	1165.3	1174.9	1200.3	1204.1	1198.4	1197.8	1182.5	1152.0	1129.1	1111.3	1013.6
32.5°	1218.4	1227.0	1247.4	1249.0	1238.8	1240.1	1225.8	1197.8	1184.7	1178.4	1065.5
35°	1274.7	1279.2	1296.7	1294.8	1288.1	1287.1	1281.4	1254.7	1258.8	1270.3	1138.9
37.5°	1321.8	1330.7	1340.6	1342.2	1341.8	1345.0	1348.8	1336.1	1360.0	1395.9	1235.3
40°	1365.1	1372.7	1387.3	1392.4	1404.8	1411.2	1424.2	1424.5	1479.6	1538.7	1353.9
42.5°	1394.3	1407.4	1434.7	1443.9	1474.2	1493.2	1512.6	1533.3	1613.1	1689.2	1493.9
45°	1419.8	1436.9	1482.4	1511.0	1552.1	1575.3	1616.3	1659.6	1774.4	1873.9	1636.0
47.5°	1458.2	1473.5	1525.7	1576.2	1638.3	1665.0	1726.4	1790.9	1941.0	2050.1	1772.2
50°	1511.7	1520.9	1574.0	1656.4	1735.6	1769.9	1851.0	1944.2	2119.2	2224.1	1891.7
52.5°	1580.1	1583.9	1626.2	1735.9	1840.2	1882.8	1990.3	2099.1	2275.0	2375.2	1986.5
55°	1660.8	1654.5	1687.6	1820.2	1959.8	2015.5	2130.9	2255.9	2450.2	2497.3	2055.5
57.5°	1740.7	1730.8	1757.2	1922.6	2107.4	2174.5	2309.0	2417.5	2606.7	2611.5	2103.9
60°	1825.3	1818.0	1849.4	2042.8	2288.4	2367.9	2492.2	2585.1	2758.1	2691.0	2111.5
62.5°	1912.1	1900.3	1945.2	2178.0	2492.2	2564.4	2685.0	2763.2	2906.6	2720.6	2038.1
65°	1996.4	1991.0	2060.3	2338.6	2724.4	2806.5	2923.5	2976.6	3025.6	2676.1	1855.8
67.5°	2086.1	2096.9	2207.6	2553.0	3027.2	3130.2	3256.5	3206.6	3059.6	2465.2	1562.9
70°	2222.8	2229.8	2400.9	2833.8	3417.4	3541.8	3602.8	3288.3	2895.5	2064.8	1174.9
72.5°	2281.7	2312.5	2573.6	3128.6	3860.8	3936.8	3719.3	3106.1	2412.1	1402.6	617.3
73°	2268.6	2305.5	2581.6	3173.5	3895.5	3975.3	3694.4	3012.2	2242.2	1207.9	529.2
75°	2106.1	2151.6	2478.2	3136.0	3828.0	3780.3	3295.6	2567.3	1515.2	549.3	241.1
77.5°	1661.8	1674.8	1963.6	2532.3	3014.5	2926.0	2466.5	1604.6	618.9	204.2	136.8
80°	833.6	881.6	1106.8	1450.6	2015.8	1986.8	1556.8	758.9	257.9	119.9	90.6
82.5°	401.1	435.1	539.1	707.3	1113.8	1087.4	770.9	414.7	163.8	70.0	53.4
85°	258.3	283.7	343.2	337.4	458.0	437.3	346.4	313.9	97.0	36.6	37.2
87.5°	170.5	186.7	223.9	179.1	166.7	150.8	153.0	176.8	19.1	14.0	5.1
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°	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4	989.4
2.5°	978.6	974.5	960.8	947.5	934.7	922.7	914.7	904.2	897.2	899.1	902.0
5°	954.1	944.9	920.7	897.2	874.9	848.6	827.2	810.1	797.0	792.3	791.3
7.5°	928.4	912.8	878.1	837.7	799.9	767.1	729.3	710.5	688.6	680.9	678.4
10°	912.8	891.8	843.1	786.9	729.9	675.5	634.5	601.1	570.9	565.2	562.3
12.5°	908.3	880.7	815.2	742.6	666.9	600.2	539.4	495.5	466.3	459.6	449.7
15°	905.8	871.5	789.1	698.1	602.1	520.6	456.7	405.5	378.8	361.0	361.3
17.5°	903.6	861.0	759.8	649.5	546.1	452.3	381.7	335.5	311.1	301.5	300.6
20°	900.4	848.6	726.1	598.2	482.2	389.9	326.0	291.6	275.1	267.2	266.8
22.5°	899.1	836.5	693.0	546.1	425.5	341.9	289.1	264.9	254.4	249.0	249.0
25°	902.3	827.9	658.4	496.5	375.3	300.9	263.7	247.1	241.1	238.2	237.3
27.5°	912.2	824.1	624.0	446.9	329.2	272.9	246.5	235.0	230.6	228.4	228.7
30°	930.9	823.7	590.3	397.9	294.8	251.6	232.8	224.9	221.4	220.1	219.8
32.5°	961.1	830.7	557.2	357.5	265.9	233.8	220.1	214.4	212.8	211.8	211.5
35°	1012.3	850.5	524.5	320.6	243.6	217.9	208.0	205.1	202.9	203.9	204.2
37.5°	1081.4	884.5	493.3	291.6	226.8	206.1	197.8	195.3	194.0	195.0	195.9
40°	1173.9	933.5	467.2	268.4	214.7	196.2	188.9	186.7	185.4	187.0	187.3
42.5°	1276.0	990.1	445.6	250.3	204.8	188.0	181.0	178.4	177.5	178.4	178.7
45°	1381.0	1055.9	434.5	237.3	196.6	181.9	174.6	171.7	169.5	168.9	169.8
47.5°	1484.3	1113.2	434.1	229.3	189.9	176.5	168.6	165.4	162.5	160.9	160.6
50°	1568.6	1158.6	441.8	225.8	184.1	170.5	162.5	159.3	155.5	152.3	153.0
52.5°	1632.2	1188.2	445.3	224.2	181.0	164.1	156.2	153.3	148.8	144.7	144.7
55°	1673.2	1195.2	436.7	222.6	178.4	157.4	148.8	146.3	141.8	137.7	137.7
57.5°	1687.2	1173.6	405.8	218.8	175.9	151.7	141.5	139.3	135.8	131.7	131.0
60°	1654.8	1100.4	351.8	207.4	170.8	145.7	133.6	132.6	131.4	127.9	127.5
62.5°	1529.8	945.2	292.9	192.4	162.2	139.3	126.3	127.9	128.8	126.9	126.6
65°	1321.8	767.4	250.3	171.7	150.8	130.4	118.3	122.4	125.0	125.0	124.4
67.5°	1072.1	589.3	210.9	153.9	136.4	118.3	109.4	112.6	114.5	113.9	115.5
70°	762.0	399.2	171.7	133.6	118.3	104.6	98.0	98.0	96.7	96.1	96.1
72.5°	369.6	228.0	139.3	111.6	100.8	89.4	84.0	81.7	79.2	78.9	77.3
73°	308.8	204.5	132.9	107.5	96.7	87.1	81.1	77.6	76.0	74.7	74.4
75°	188.0	155.2	111.0	90.6	82.4	75.1	69.7	66.5	64.9	63.9	63.6
77.5°	123.7	115.8	86.2	69.3	63.0	58.5	56.3	53.1	52.2	50.9	50.9
80°	92.2	88.4	61.7	49.0	45.2	41.3	40.7	40.1	37.5	35.9	35.3
82.5°	59.5	63.0	42.0	32.8	28.6	25.4	25.8	26.7	24.2	21.9	21.3
85°	42.3	45.5	25.4	14.9	12.1	10.5	11.8	10.5	10.8	8.6	7.0
87.5°	7.0	12.1	4.5	1.9	1.0	0.6	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)