

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: P451361

Luminaire Tested: **GALN-SA2B-727-U-SL4**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451361
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-SA2B-727-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9367 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

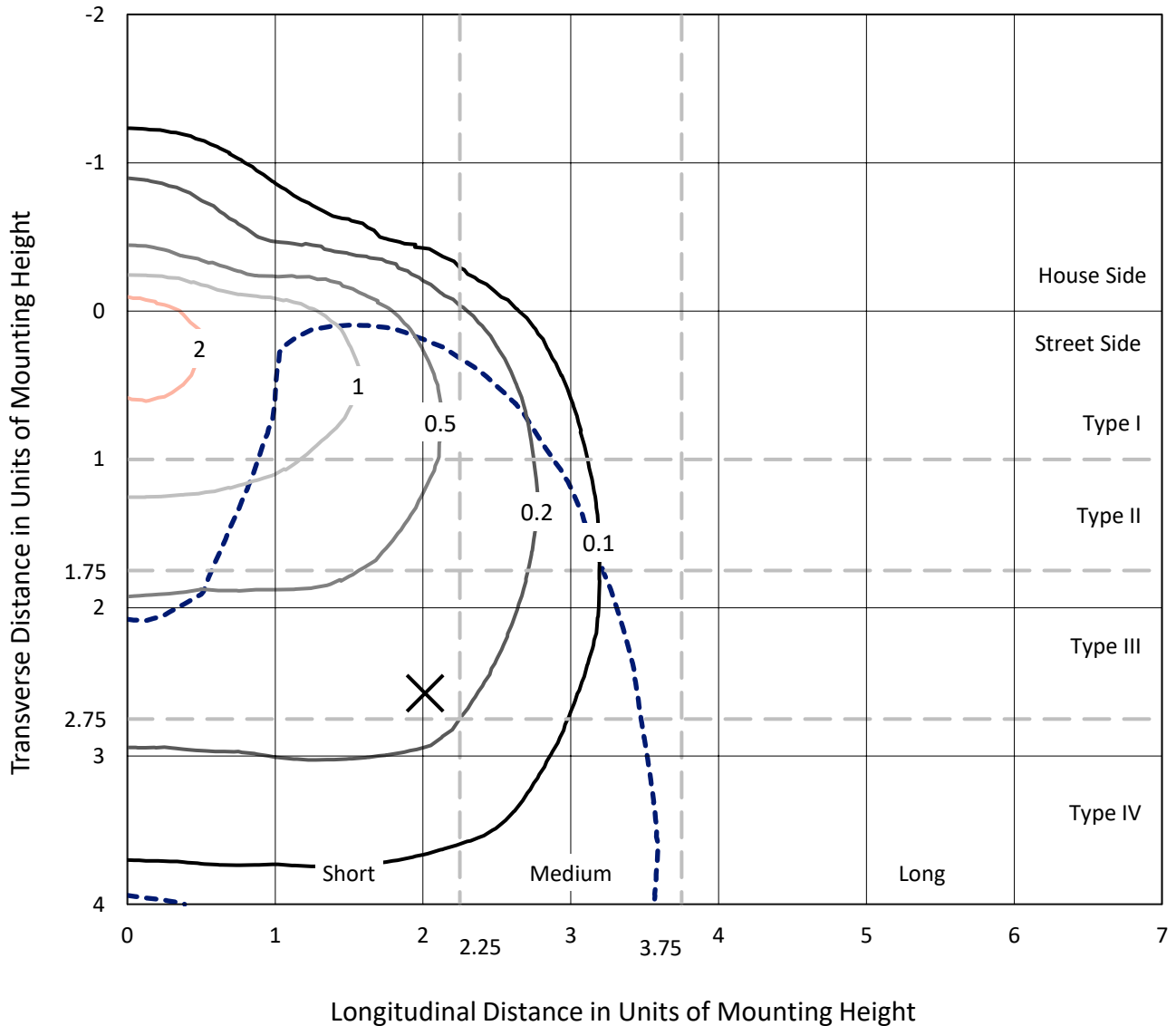
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

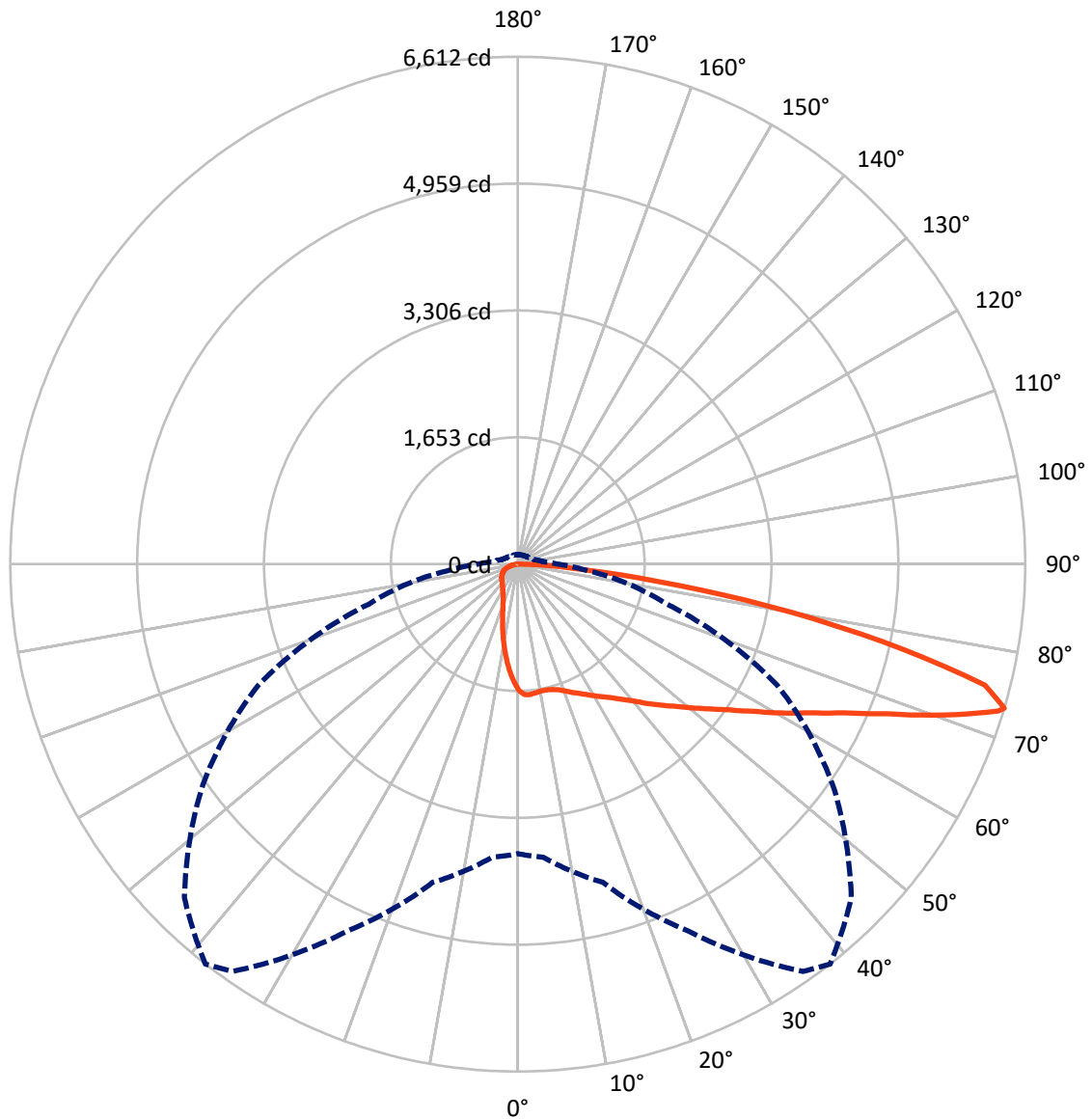
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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	1259.2	0.0	1259.2
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	8107.8	0.0	8107.8
	% Fixture	86.6	0.0	86.6
Total	Lumens	9367.0	0.0	9367.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.6	1.5
10°-20°	368.4	3.9
20°-30°	573.6	6.1
30°-40°	841.3	9.0
40°-50°	1248.0	13.3
50°-60°	1768.2	18.9
60°-70°	2243.0	23.9
70°-80°	1867.1	19.9
80°-90°	313.7	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°	9367.0	100.0
0°-180°	9367.0	100.0

Coefficient of Utilization



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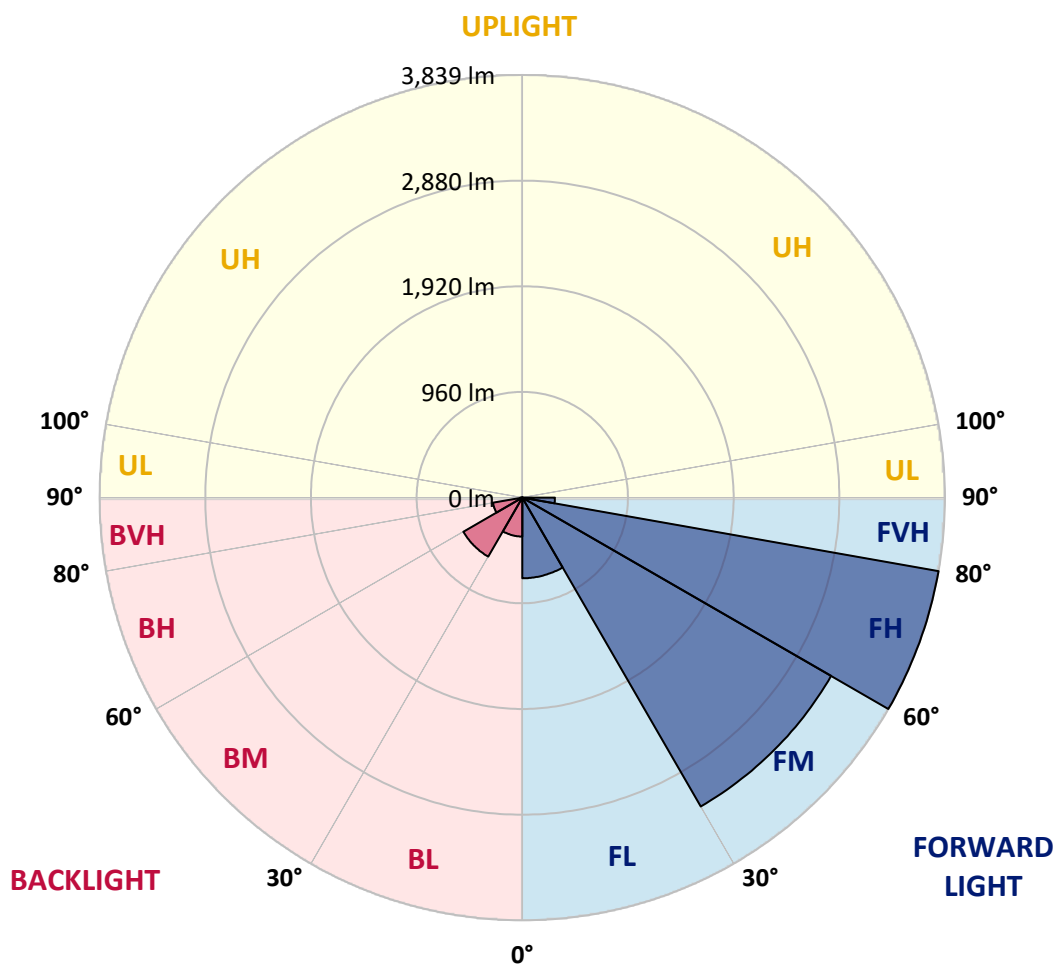
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	732.2	7.8			
FM (30°-60°)	3239.4	34.6			
FH (60°-80°)	3839.5	41.0			G2/5000
FVH (80°-90°)	296.7	3.2			G3/500
BL (0°-30°)	353.3	3.8	B1/500		
BM (30°-60°)	618.2	6.6	B1/1000		
BH (60°-80°)	270.7	2.9	B1/500		G1/500
BVH (80°-90°)	17.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6
2.5°	1711.7	1720.2	1716.0	1710.2	1706.5	1702.8	1697.5	1682.1	1670.0	1656.7	1636.1
5°	1724.4	1729.7	1726.0	1718.6	1710.2	1706.5	1696.4	1676.3	1656.7	1634.5	1603.8
7.5°	1717.0	1719.1	1714.9	1705.9	1698.5	1691.6	1680.0	1657.8	1634.0	1607.0	1566.8
10°	1690.6	1698.5	1698.5	1691.1	1683.7	1680.0	1668.4	1647.2	1625.5	1594.8	1547.2
12.5°	1668.9	1677.4	1684.2	1682.1	1681.6	1681.6	1672.6	1656.7	1631.3	1602.2	1545.6
15°	1654.1	1664.1	1678.9	1687.4	1692.7	1694.3	1690.6	1676.8	1650.9	1617.1	1552.0
17.5°	1650.9	1663.1	1690.1	1708.6	1722.3	1721.8	1720.7	1701.7	1673.1	1638.2	1559.9
20°	1665.2	1681.1	1718.6	1747.7	1767.8	1764.1	1758.3	1733.4	1700.1	1661.0	1567.3
22.5°	1708.0	1724.4	1765.7	1797.4	1817.0	1817.0	1799.6	1766.8	1731.3	1687.4	1577.4
25°	1769.4	1787.4	1831.3	1863.6	1872.6	1865.7	1848.2	1808.5	1767.8	1725.5	1598.5
27.5°	1844.5	1866.2	1906.9	1933.9	1931.3	1926.0	1908.0	1857.2	1816.5	1777.9	1634.5
30°	1938.1	1954.0	1996.3	2002.7	1993.2	1992.1	1966.7	1915.9	1877.8	1848.2	1685.8
32.5°	2026.5	2040.8	2074.6	2077.3	2060.3	2062.5	2038.6	1992.1	1970.4	1959.8	1772.0
35°	2120.1	2127.5	2156.6	2153.4	2142.3	2140.7	2131.2	2086.8	2093.7	2112.7	1894.2
37.5°	2198.4	2213.2	2229.6	2232.2	2231.7	2237.0	2243.4	2222.2	2261.9	2321.6	2054.5
40°	2270.3	2283.0	2307.4	2315.8	2336.5	2347.0	2368.7	2369.3	2460.8	2559.2	2251.8
42.5°	2319.0	2340.7	2386.2	2401.5	2451.8	2483.5	2515.8	2550.2	2682.9	2809.4	2484.6
45°	2361.3	2389.9	2465.5	2513.1	2581.4	2620.0	2688.2	2760.2	2951.1	3116.7	2721.0
47.5°	2425.3	2450.7	2537.5	2621.6	2724.7	2769.2	2871.2	2978.6	3228.3	3409.7	2947.4
50°	2514.2	2529.5	2617.9	2754.9	2886.6	2943.7	3078.6	3233.6	3524.5	3699.1	3146.3
52.5°	2627.9	2634.3	2704.6	2887.1	3060.6	3131.5	3310.3	3491.2	3783.7	3950.3	3303.9
55°	2762.3	2751.7	2806.7	3027.3	3259.5	3352.1	3544.1	3752.0	4075.2	4153.5	3418.7
57.5°	2895.0	2878.7	2922.6	3197.6	3504.9	3616.6	3840.3	4020.7	4335.4	4343.4	3499.1
60°	3035.8	3023.6	3076.0	3397.6	3805.9	3938.2	4145.0	4299.5	4587.2	4475.6	3511.8
62.5°	3180.2	3160.6	3235.2	3622.4	4145.0	4265.1	4465.6	4595.7	4834.2	4524.8	3389.6
65°	3320.3	3311.3	3426.7	3889.5	4531.2	4667.6	4862.3	4950.6	5032.1	4450.7	3086.5
67.5°	3469.5	3487.5	3671.6	4246.0	5034.7	5206.1	5416.1	5333.1	5088.7	4100.0	2599.4
70°	3697.0	3708.6	3993.2	4713.1	5683.8	5890.6	5992.2	5469.0	4815.7	3434.1	1954.0
72.5°	3794.8	3846.1	4280.4	5203.5	6421.2	6547.6	6185.8	5165.9	4011.7	2332.8	1026.7
73°	3773.1	3834.5	4293.6	5278.1	6478.8	6611.6	6144.5	5009.9	3729.2	2009.0	880.2
75°	3502.8	3578.5	4121.7	5215.6	6366.7	6287.3	5481.2	4269.8	2520.0	913.5	401.0
77.5°	2763.9	2785.6	3265.9	4211.7	5013.6	4866.5	4102.2	2668.6	1029.4	339.6	227.5
80°	1386.4	1466.3	1840.8	2412.6	3352.6	3304.5	2589.3	1262.1	429.0	199.4	150.8
82.5°	667.0	723.6	896.6	1176.4	1852.5	1808.5	1282.2	689.8	272.4	116.4	88.9
85°	429.5	471.8	570.8	561.2	761.7	727.3	576.0	522.1	161.3	60.8	61.9
87.5°	283.5	310.5	372.4	297.8	277.2	250.7	254.4	294.1	31.7	23.3	8.5
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°	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6	1645.6
2.5°	1627.6	1620.8	1598.0	1575.8	1554.6	1534.5	1521.3	1503.9	1492.2	1495.4	1500.2
5°	1586.9	1571.6	1531.4	1492.2	1455.2	1411.3	1375.8	1347.3	1325.6	1317.7	1316.1
7.5°	1544.1	1518.1	1460.5	1393.3	1330.4	1275.9	1212.9	1181.7	1145.2	1132.5	1128.3
10°	1518.1	1483.2	1402.3	1308.7	1214.0	1123.5	1055.3	999.8	949.5	940.0	935.2
12.5°	1510.7	1464.7	1355.7	1235.1	1109.2	998.2	897.1	824.1	775.5	764.4	748.0
15°	1506.5	1449.4	1312.4	1161.1	1001.3	865.9	759.6	674.4	630.0	600.4	600.9
17.5°	1502.8	1431.9	1263.7	1080.2	908.2	752.2	634.8	558.1	517.3	501.5	499.9
20°	1497.5	1411.3	1207.6	995.0	801.9	648.5	542.2	485.1	457.6	444.3	443.8
22.5°	1495.4	1391.2	1152.6	908.2	707.8	568.6	480.8	440.6	423.2	414.2	414.2
25°	1500.7	1376.9	1095.0	825.7	624.2	500.4	438.5	411.0	401.0	396.2	394.6
27.5°	1517.1	1370.6	1037.8	743.2	547.5	453.9	410.0	390.9	383.5	379.8	380.3
30°	1548.3	1370.0	981.8	661.7	490.4	418.4	387.2	374.0	368.2	366.0	365.5
32.5°	1598.5	1381.7	926.8	594.6	442.2	388.8	366.0	356.5	353.9	352.3	351.8
35°	1683.7	1414.5	872.3	533.2	405.2	362.3	345.9	341.2	337.5	339.1	339.6
37.5°	1798.5	1471.1	820.4	485.1	377.2	342.8	329.0	324.8	322.7	324.3	325.8
40°	1952.4	1552.5	777.1	446.4	357.1	326.4	314.2	310.5	308.4	311.0	311.6
42.5°	2122.2	1646.7	741.1	416.3	340.7	312.6	301.0	296.8	295.2	296.8	297.3
45°	2296.8	1756.2	722.6	394.6	326.9	302.6	290.4	285.6	281.9	280.9	282.5
47.5°	2468.7	1851.4	722.0	381.4	315.8	293.6	280.4	275.1	270.3	267.7	267.1
50°	2608.9	1927.0	734.7	375.6	306.3	283.5	270.3	265.0	258.7	253.4	254.4
52.5°	2714.7	1976.2	740.6	372.9	301.0	272.9	259.7	255.0	247.6	240.7	240.7
55°	2782.9	1987.9	726.3	370.3	296.8	261.8	247.6	243.3	235.9	229.0	229.0
57.5°	2806.2	1951.9	675.0	363.9	292.5	252.3	235.4	231.7	225.9	219.0	217.9
60°	2752.2	1830.2	585.0	344.9	284.1	242.3	222.2	220.6	218.5	212.6	212.1
62.5°	2544.3	1572.1	487.2	320.0	269.8	231.7	210.0	212.6	214.2	211.1	210.5
65°	2198.4	1276.4	416.3	285.6	250.7	216.9	196.8	203.7	207.9	207.9	206.8
67.5°	1783.2	980.2	350.7	256.0	226.9	196.8	182.0	187.3	190.4	189.4	192.0
70°	1267.4	663.9	285.6	222.2	196.8	174.0	162.9	162.9	160.8	159.7	159.7
72.5°	614.7	379.3	231.7	185.7	167.7	148.6	139.6	135.9	131.7	131.2	128.5
73°	513.6	340.1	221.1	178.8	160.8	144.9	134.9	129.1	126.4	124.3	123.8
75°	312.6	258.1	184.6	150.8	137.0	124.8	115.8	110.6	107.9	106.3	105.8
77.5°	205.8	192.5	143.4	115.3	104.7	97.3	93.6	88.3	86.8	84.6	84.6
80°	153.4	147.1	102.6	81.5	75.1	68.8	67.7	66.7	62.4	59.8	58.7
82.5°	98.9	104.7	69.8	54.5	47.6	42.3	42.8	44.4	40.2	36.5	35.4
85°	70.4	75.6	42.3	24.9	20.1	17.5	19.6	17.5	18.0	14.3	11.6
87.5°	11.6	20.1	7.4	3.2	1.6	1.1	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)