

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: P450953

Luminaire Tested: **GALN-SA1D-740-U-SL3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1D-740-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7758 lumens
Efficiency: N/A
Efficacy: 119.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

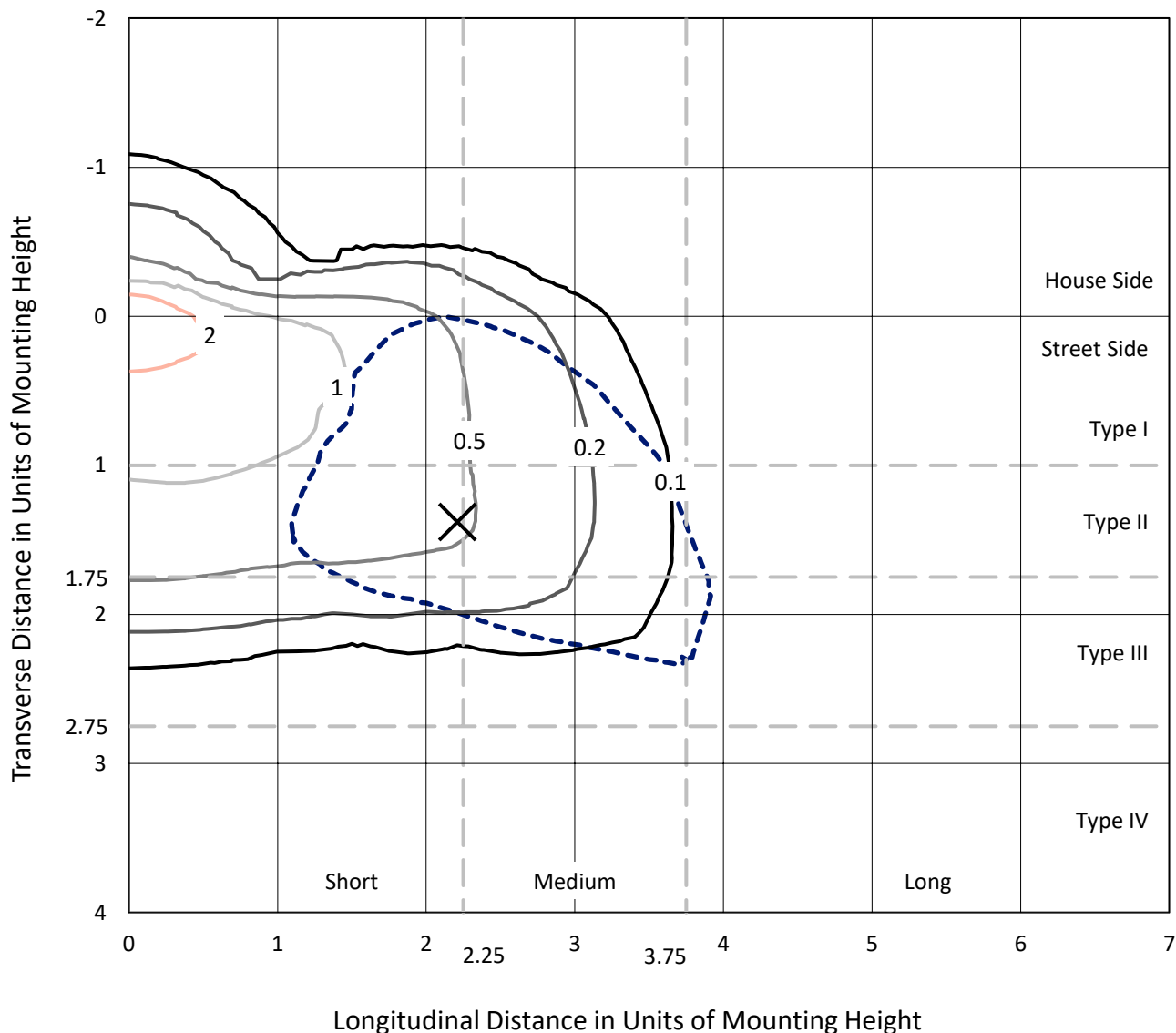
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

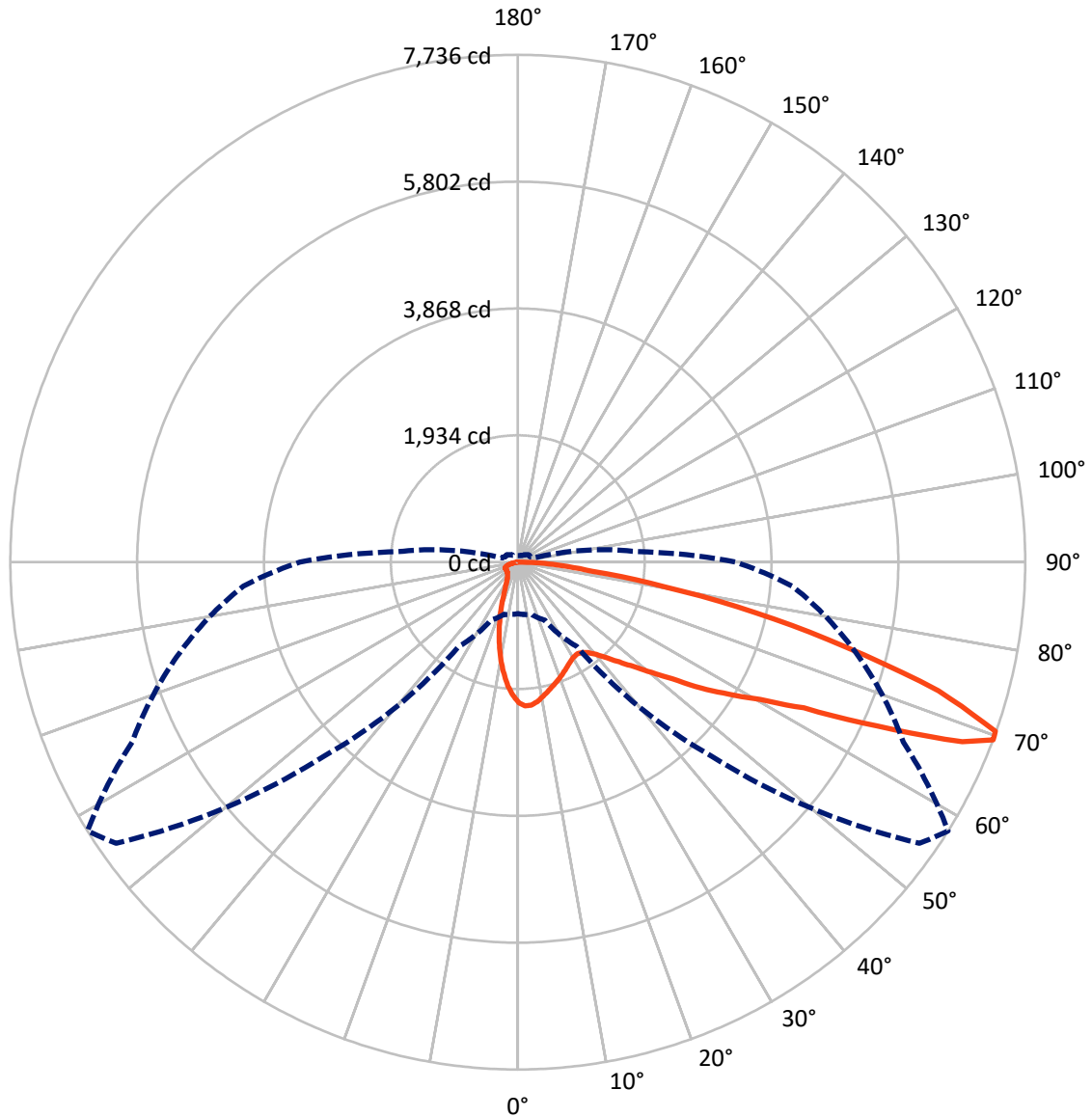
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1136.9	0.0	1136.9
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	6621.1	0.0	6621.1
	% Fixture	85.3	0.0	85.3
Total	Lumens	7758.0	0.0	7758.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.1	2.3
10°-20°	399.8	5.2
20°-30°	516.5	6.7
30°-40°	670.9	8.6
40°-50°	975.3	12.6
50°-60°	1556.3	20.1
60°-70°	2079.1	26.8
70°-80°	1198.5	15.4
80°-90°	179.5	2.3
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°	7758.0	100.0
0°-180°	7758.0	100.0

Coefficient of Utilization

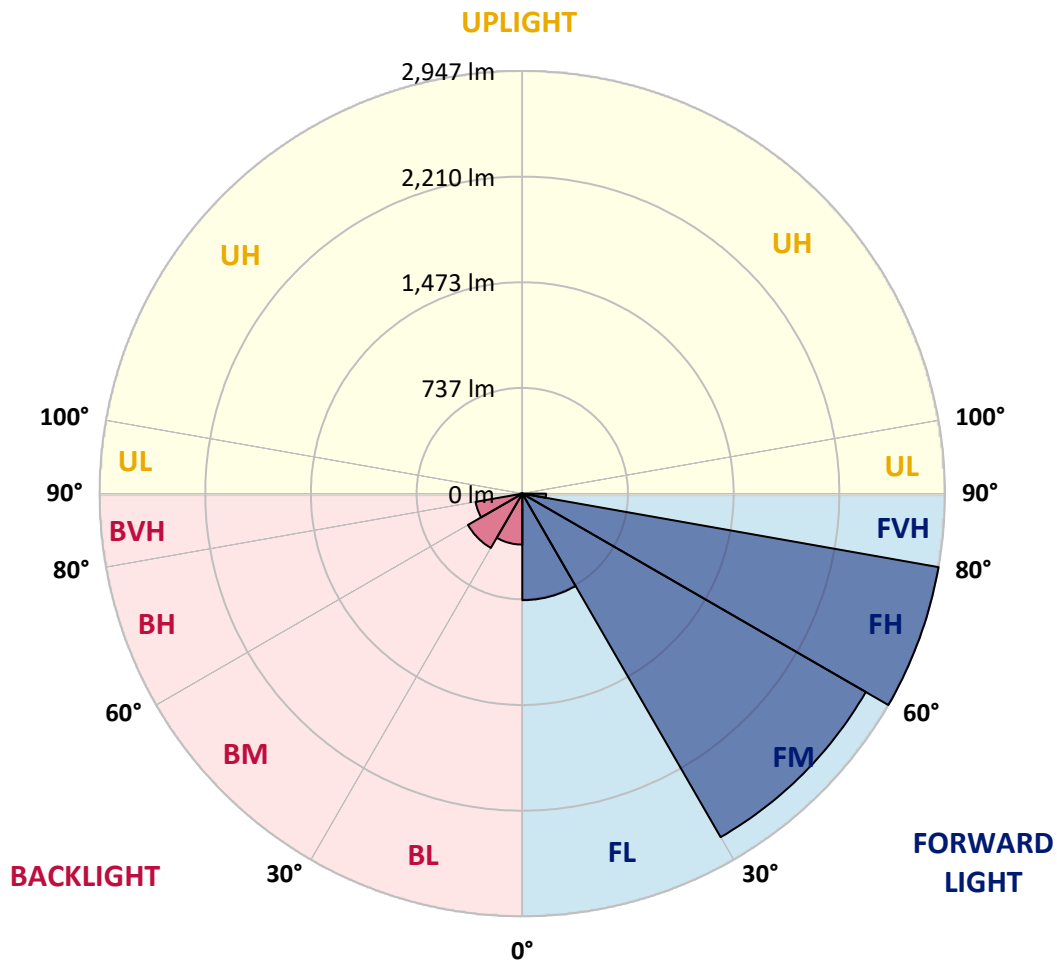


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	743.0	9.6			
FM (30°-60°)	2765.3	35.6			
FH (60°-80°)	2947.0	38.0			G2/5000
FVH (80°-90°)	165.8	2.1			G2/225
BL (0°-30°)	355.4	4.6	B1/500		
BM (30°-60°)	437.2	5.6	B1/1000		
BH (60°-80°)	330.6	4.3	B1/500		G1/500
BVH (80°-90°)	13.8	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9
2.5°	2223.5	2229.5	2227.8	2225.6	2222.2	2212.7	2197.1	2194.5	2184.5	2163.3	2136.9
5°	2189.3	2194.5	2194.9	2197.9	2202.3	2200.5	2189.3	2188.0	2173.3	2144.7	2100.6
7.5°	2072.0	2079.0	2094.1	2111.0	2126.1	2140.4	2143.9	2146.0	2136.9	2104.1	2045.2
10°	1940.1	1947.0	1953.9	1979.0	2016.2	2051.7	2081.1	2085.0	2087.2	2056.9	1985.1
12.5°	1793.8	1808.1	1822.8	1860.0	1909.8	1965.6	2017.5	2025.7	2040.4	2017.5	1933.1
15°	1669.7	1684.4	1705.6	1738.9	1799.0	1879.5	1952.6	1966.0	1995.0	1983.3	1884.7
17.5°	1583.6	1588.7	1603.5	1641.5	1706.4	1791.2	1889.0	1915.8	1962.1	1959.1	1843.2
20°	1515.6	1522.1	1531.2	1554.6	1622.1	1711.6	1829.7	1864.4	1927.1	1937.5	1802.1
22.5°	1487.1	1491.8	1490.5	1503.1	1548.9	1638.9	1769.6	1810.7	1895.9	1922.8	1764.0
25°	1488.8	1493.1	1486.6	1483.6	1510.9	1574.9	1706.9	1759.2	1870.8	1912.8	1729.4
27.5°	1517.8	1520.8	1508.7	1496.6	1498.8	1535.1	1654.9	1712.9	1849.6	1917.1	1700.4
30°	1556.7	1562.4	1554.6	1539.9	1523.8	1525.6	1621.6	1678.7	1839.7	1932.3	1686.5
32.5°	1606.9	1612.1	1608.6	1597.0	1576.2	1553.3	1613.4	1666.2	1840.6	1963.0	1683.5
35°	1659.7	1670.1	1675.7	1674.8	1658.0	1618.2	1645.9	1689.6	1861.3	2014.5	1701.2
37.5°	1719.4	1728.1	1752.3	1767.9	1752.3	1706.0	1719.0	1749.3	1907.2	2088.9	1740.2
40°	1777.4	1790.4	1825.8	1874.3	1868.2	1827.6	1830.6	1850.5	1988.1	2199.7	1816.3
42.5°	1838.0	1853.5	1915.4	1987.2	2001.5	1969.9	1978.1	1995.9	2103.2	2353.3	1947.0
45°	1915.8	1934.4	2010.6	2100.2	2156.4	2136.9	2160.3	2169.0	2257.2	2553.2	2119.2
47.5°	2016.2	2037.9	2131.7	2243.4	2323.0	2340.7	2381.4	2376.2	2448.0	2789.8	2342.5
50°	2185.4	2197.5	2286.2	2400.0	2509.5	2589.5	2633.6	2641.9	2684.7	3020.0	2592.1
52.5°	2386.6	2397.4	2461.4	2560.9	2698.1	2867.7	2976.7	2949.9	2960.3	3300.4	2884.1
55°	2612.9	2631.0	2671.7	2737.9	2915.7	3165.4	3384.3	3390.8	3275.7	3568.6	3164.1
57.5°	2788.1	2818.8	2888.5	2982.8	3208.2	3496.4	3790.6	3794.9	3647.8	3855.0	3473.0
60°	2699.8	2736.2	2895.4	3125.1	3592.0	4074.0	4276.0	4251.4	4009.9	4181.3	3849.9
62.5°	2319.1	2325.6	2557.1	2916.2	3710.1	4846.7	4998.6	4894.3	4493.2	4594.9	4232.8
65°	1500.9	1543.3	1726.8	2230.0	3322.0	5275.5	6264.6	6023.6	5170.8	5064.3	4553.4
67.5°	947.5	936.7	1012.9	1273.3	2284.9	4897.8	7344.9	7306.9	6056.9	5360.7	4476.8
69°	785.7	797.8	823.8	976.1	1572.3	4181.7	7472.6	7735.6	6486.5	5337.4	4198.6
70°	712.6	718.2	745.5	865.3	1213.2	3502.4	7263.2	7723.9	6655.3	5239.6	3997.0
72.5°	565.5	565.1	611.8	720.0	906.9	1999.3	5963.9	6705.9	6466.6	4784.4	3302.5
75°	429.6	436.6	488.0	609.2	835.5	1092.5	4161.8	5164.3	5164.7	3778.9	2060.8
77.5°	309.8	314.1	374.3	511.4	787.0	885.7	2772.1	3704.0	3482.1	1731.5	647.7
80°	202.9	205.5	251.4	405.0	709.6	835.5	1643.7	2267.2	1642.4	459.5	214.2
82.5°	111.2	124.2	153.6	262.2	569.4	771.9	999.0	1147.4	616.1	204.7	111.6
85°	55.8	59.3	86.5	153.2	372.1	638.6	695.7	658.1	318.0	101.7	58.0
87.5°	16.4	20.8	35.9	59.3	151.0	332.7	387.2	347.4	122.4	36.8	12.1
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°	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9	2143.9
2.5°	2126.1	2118.3	2083.7	2052.6	2024.0	1993.7	1968.2	1945.7	1947.9	1948.3	1925.4
5°	2077.7	2059.9	1994.2	1932.7	1880.8	1815.0	1758.8	1722.4	1704.3	1680.0	1688.7
7.5°	2011.9	1977.7	1886.4	1784.3	1688.7	1603.5	1510.9	1447.3	1406.6	1367.2	1372.4
10°	1944.0	1889.0	1756.2	1621.2	1497.5	1361.2	1243.0	1141.8	1066.5	1038.4	1019.8
12.5°	1874.3	1802.1	1633.3	1453.8	1282.9	1119.7	952.3	843.7	760.6	716.5	722.1
15°	1810.7	1722.9	1505.2	1286.3	1064.4	870.1	703.1	599.7	541.7	529.6	536.5
17.5°	1751.9	1636.8	1385.4	1123.6	864.5	652.5	528.3	469.9	446.5	440.0	439.6
20°	1691.3	1563.7	1250.8	949.7	673.7	505.8	433.5	406.3	401.9	404.5	405.0
22.5°	1629.9	1473.2	1112.4	777.1	536.5	413.6	379.0	371.7	375.1	381.2	382.0
25°	1573.2	1393.6	979.1	625.6	428.3	363.4	346.6	346.6	354.4	363.4	363.9
27.5°	1526.4	1316.6	846.3	496.7	358.7	327.1	321.5	324.5	335.3	342.2	342.7
30°	1487.9	1244.8	720.8	398.1	315.4	298.1	296.8	302.0	309.8	316.3	316.7
32.5°	1458.9	1181.6	603.6	334.5	285.6	276.0	275.6	279.5	283.8	285.6	287.3
35°	1447.7	1129.3	496.3	294.2	265.7	259.6	259.6	259.2	260.9	261.8	262.6
37.5°	1456.8	1089.0	413.2	268.3	250.9	246.6	244.0	241.4	240.6	240.6	241.0
40°	1495.3	1067.8	351.3	251.4	240.6	234.1	229.3	226.3	223.3	224.1	225.0
42.5°	1577.1	1071.7	309.4	240.1	231.5	222.4	215.5	212.0	209.8	212.4	212.0
45°	1707.3	1110.7	282.5	232.3	222.4	210.7	204.2	200.8	200.8	204.7	205.9
47.5°	1889.4	1185.1	268.3	226.3	215.5	201.6	195.1	192.5	193.4	199.9	200.3
50°	2111.8	1314.4	265.7	223.3	212.0	195.1	187.8	185.2	187.3	194.3	195.1
52.5°	2357.2	1481.0	278.2	223.7	209.0	191.2	181.7	177.8	180.0	185.6	187.3
55°	2647.9	1689.6	310.7	225.4	204.7	189.1	177.4	168.7	171.3	175.2	175.7
57.5°	2944.7	1952.6	367.8	225.9	201.2	185.2	170.0	158.8	158.8	161.4	162.7
60°	3307.3	2239.0	443.0	226.3	201.6	179.6	160.1	147.5	145.8	147.1	147.5
62.5°	3667.3	2478.7	455.6	225.0	205.9	173.9	149.3	136.3	133.3	132.8	132.0
65°	3826.1	2434.2	373.4	218.9	210.7	170.5	140.6	125.5	120.3	118.6	118.6
67.5°	3567.3	2059.1	280.8	210.7	207.7	167.0	132.4	116.4	110.3	106.9	106.9
69°	3324.2	1831.5	252.2	205.1	199.9	161.4	127.2	111.6	104.3	100.4	99.1
70°	3136.4	1674.8	240.1	200.3	192.5	154.9	123.3	108.2	99.9	95.6	94.8
72.5°	2503.0	1314.0	210.3	182.2	164.0	130.2	109.5	97.3	89.6	84.8	83.5
75°	1442.5	712.2	174.4	158.4	132.0	101.2	92.6	84.8	78.7	74.4	73.1
77.5°	443.9	275.2	126.3	125.0	96.9	78.3	74.0	71.0	66.6	61.9	61.0
80°	186.9	140.2	85.7	84.4	64.5	54.5	53.2	52.8	51.1	47.2	45.9
82.5°	102.5	79.2	59.7	51.9	38.9	31.6	32.9	33.3	32.0	28.1	25.5
85°	50.2	43.3	29.0	23.4	17.7	11.2	10.8	13.0	12.1	8.7	9.5
87.5°	10.0	12.1	7.8	3.5	1.7	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)