

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: P450951

Luminaire Tested: **GALN-SA1D-740-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450951
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
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-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7813 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

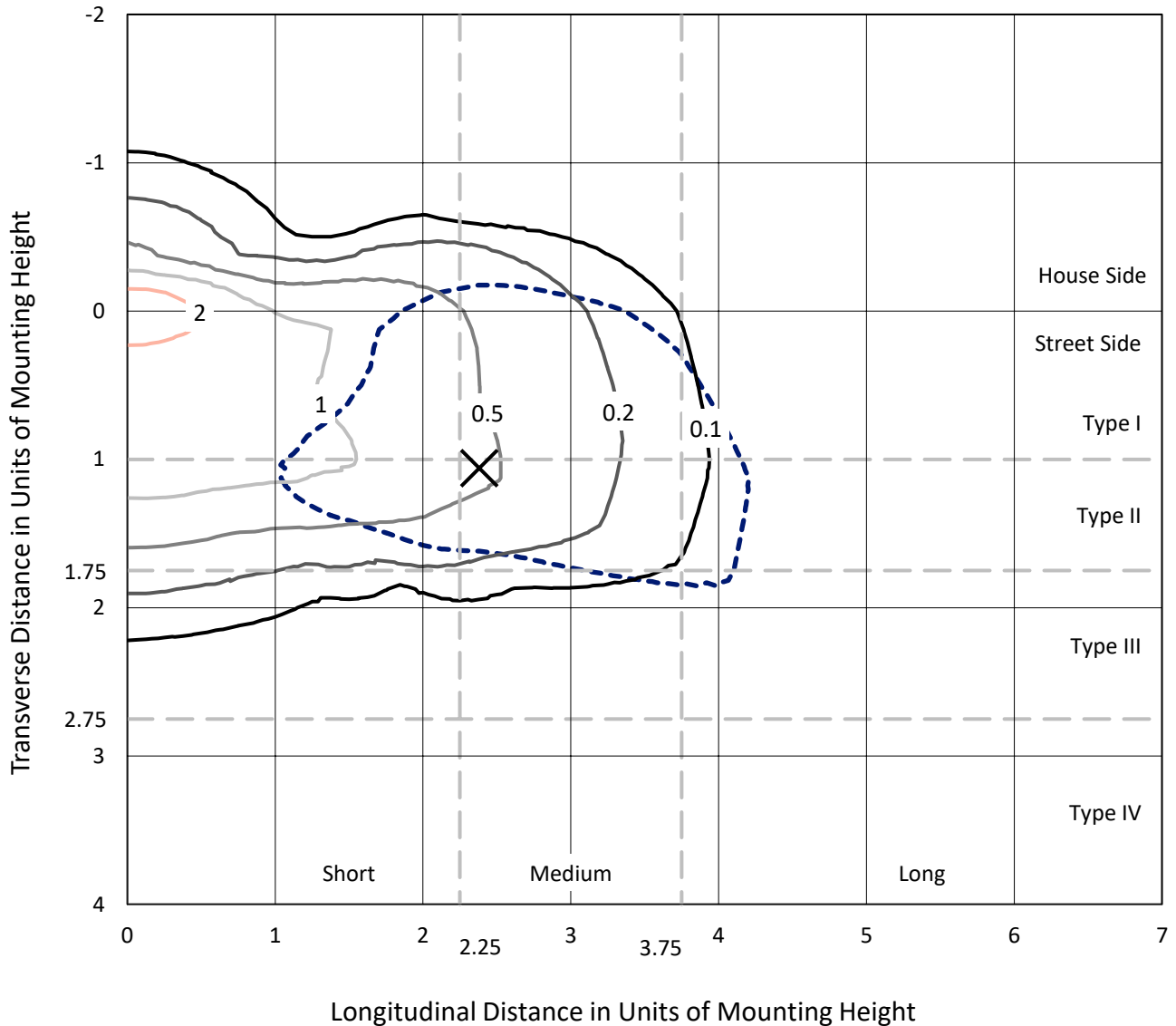
Input Watts (W): 65
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

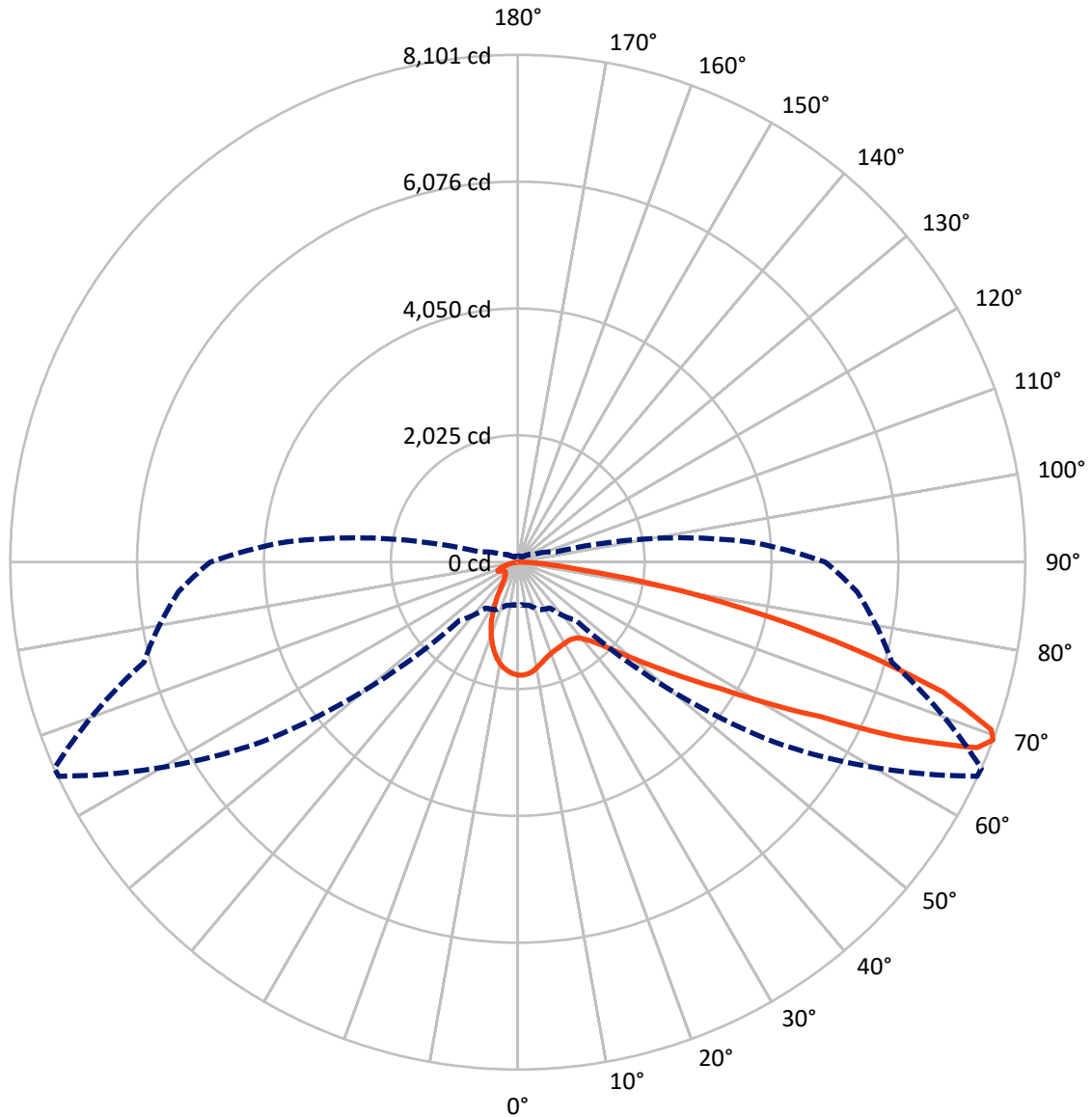
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1469.3	0.0	1469.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	6343.7	0.0	6343.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	7813.0	0.0	7813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	156.7	2.0
10°-20°	371.6	4.8
20°-30°	505.9	6.5
30°-40°	679.8	8.7
40°-50°	1015.1	13.0
50°-60°	1614.7	20.7
60°-70°	1986.0	25.4
70°-80°	1292.2	16.5
80°-90°	190.8	2.4
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°	7813.0	100.0
0°-180°	7813.0	100.0

Coefficient of Utilization



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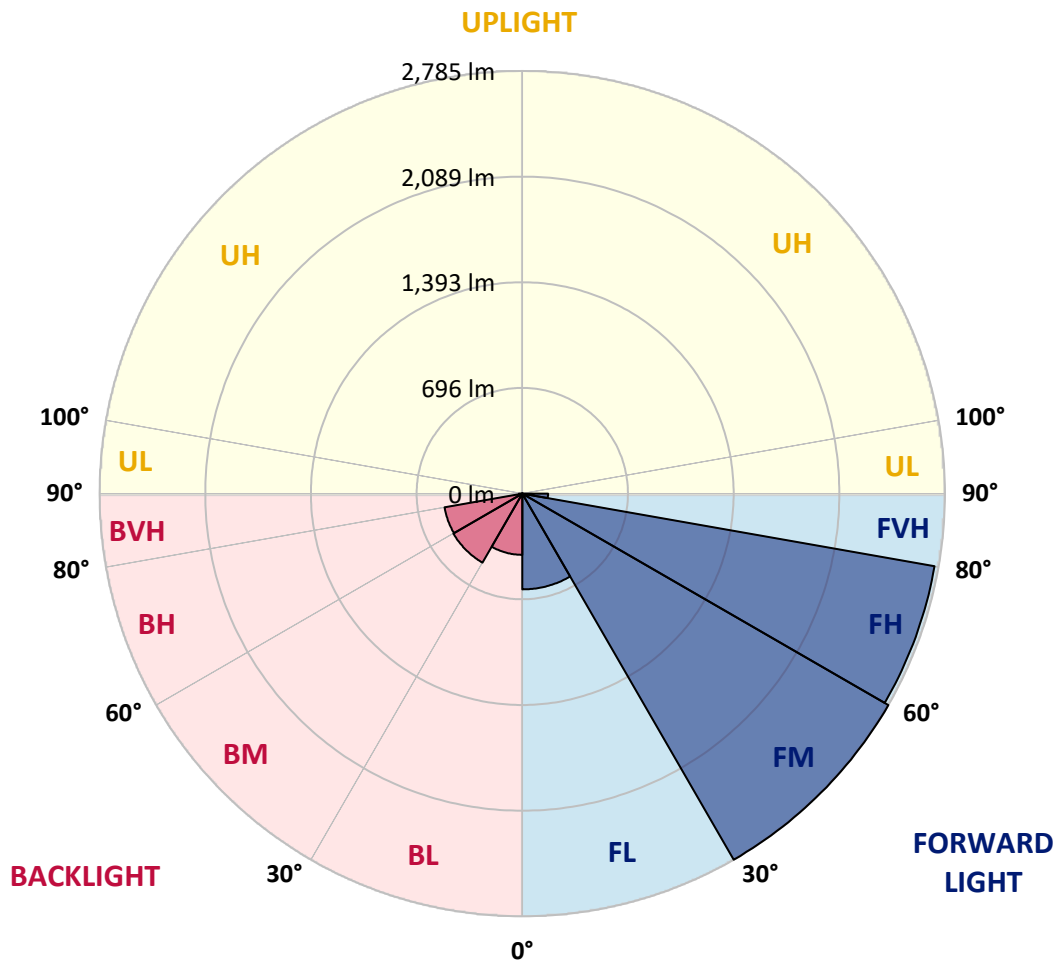
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	630.9	8.1			
FM (30°-60°)	2785.1	35.6			
FH (60°-80°)	2758.0	35.3			G2/5000
FVH (80°-90°)	169.6	2.2			G2/225
BL (0°-30°)	403.3	5.2	B1/500		
BM (30°-60°)	524.6	6.7	B1/1000		
BH (60°-80°)	520.2	6.7	B2/1000		G2/1000
BVH (80°-90°)	21.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2
2.5°	1741.1	1748.0	1755.8	1764.4	1780.9	1790.0	1796.5	1803.8	1804.7	1808.6	1805.5
5°	1612.6	1620.8	1632.5	1648.9	1673.6	1712.1	1751.9	1784.3	1788.2	1806.4	1811.6
7.5°	1505.3	1510.0	1519.5	1545.9	1581.0	1623.8	1681.8	1747.6	1757.1	1800.3	1815.5
10°	1417.9	1422.6	1433.9	1461.1	1495.7	1549.4	1613.0	1699.5	1707.3	1781.7	1816.4
12.5°	1352.5	1356.9	1369.0	1395.8	1435.6	1485.8	1555.9	1647.6	1658.9	1757.1	1808.1
15°	1302.8	1311.0	1320.9	1343.0	1385.0	1433.4	1501.4	1600.0	1609.1	1731.1	1802.5
17.5°	1281.6	1285.5	1292.4	1312.7	1343.4	1391.0	1459.4	1562.8	1573.6	1712.9	1801.2
20°	1282.4	1286.3	1287.6	1298.9	1320.9	1362.0	1429.5	1533.4	1546.4	1696.9	1803.4
22.5°	1311.9	1312.3	1307.5	1303.6	1312.3	1346.5	1408.3	1511.3	1526.5	1690.0	1805.1
25°	1357.3	1365.1	1358.2	1340.0	1324.0	1340.4	1400.1	1499.2	1513.5	1680.1	1802.9
27.5°	1430.8	1432.1	1426.5	1401.9	1360.3	1348.2	1396.7	1490.1	1502.2	1672.7	1792.1
30°	1529.5	1525.6	1520.4	1493.1	1427.8	1378.1	1404.0	1481.9	1494.4	1661.9	1779.1
32.5°	1629.4	1641.6	1636.8	1604.8	1520.0	1436.0	1427.8	1481.0	1491.4	1653.7	1764.9
35°	1735.4	1741.1	1763.6	1747.1	1660.2	1529.9	1472.4	1494.4	1502.7	1654.1	1754.9
37.5°	1818.5	1833.7	1886.4	1900.7	1818.9	1654.1	1544.6	1532.5	1536.0	1675.3	1758.8
40°	1918.9	1944.9	2012.8	2071.2	2017.5	1815.5	1667.5	1603.0	1607.4	1726.4	1784.3
42.5°	2046.1	2064.3	2155.6	2234.7	2226.1	2028.8	1816.4	1718.6	1720.7	1828.0	1855.7
45°	2194.9	2220.9	2323.4	2442.4	2462.8	2270.2	2031.4	1893.4	1892.1	1986.0	1989.0
47.5°	2385.3	2401.3	2503.0	2632.8	2715.0	2573.5	2292.3	2144.3	2130.5	2216.1	2191.5
50°	2560.5	2585.6	2662.7	2804.6	3009.2	2928.8	2635.4	2469.7	2437.2	2517.3	2475.7
52.5°	2634.1	2660.5	2725.4	2901.5	3261.5	3388.2	3071.1	2857.8	2803.7	2865.1	2850.0
55°	2506.5	2540.6	2601.2	2815.4	3372.2	3918.3	3658.7	3306.5	3267.1	3240.7	3245.0
57.5°	2163.4	2195.8	2277.6	2513.8	3239.8	4302.9	4497.6	3883.2	3798.9	3677.3	3698.0
60°	1646.7	1667.1	1709.5	1971.2	2847.4	4402.9	5450.4	4612.3	4558.6	4112.1	4126.8
62.5°	1169.5	1192.4	1221.9	1352.5	2084.6	4121.2	6196.3	5630.3	5438.7	4562.5	4548.2
65°	949.7	934.1	969.6	1030.6	1223.2	3194.0	6364.2	7043.5	6779.5	5155.7	4957.5
67.5°	781.0	764.5	799.6	908.2	930.2	1854.0	5759.3	7960.7	7907.9	5800.8	5373.3
69°	691.4	682.8	713.5	837.2	893.0	1316.6	5017.3	8088.4	8100.9	6181.1	5437.4
70°	623.0	626.5	656.4	801.3	876.2	1085.6	4288.2	7912.3	8018.7	6371.1	5368.2
72.5°	458.6	466.0	507.5	663.7	860.2	921.2	2551.9	6911.1	7099.3	6382.3	4910.8
75°	320.6	317.1	353.9	499.7	812.6	912.9	1498.8	5344.8	5558.1	5516.6	4126.4
77.5°	209.8	215.5	244.9	353.1	683.6	906.0	977.0	3791.9	3930.4	3689.4	2440.7
80°	148.0	147.5	164.0	241.0	507.1	870.5	800.0	2390.1	2355.0	1449.9	723.9
82.5°	84.8	90.9	109.9	169.6	339.2	766.3	736.0	1143.1	1043.6	413.2	244.5
85°	47.2	49.3	65.3	102.5	198.2	577.2	642.5	520.1	490.6	172.6	105.1
87.5°	15.1	16.4	27.3	51.9	90.0	272.6	363.9	240.1	221.5	62.3	42.4
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°	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2	1804.2
2.5°	1806.8	1812.0	1798.2	1784.8	1772.7	1755.8	1740.6	1728.1	1719.4	1718.1	1713.8
5°	1812.9	1813.3	1786.9	1751.5	1716.8	1678.8	1639.4	1611.3	1584.9	1570.2	1562.8
7.5°	1817.2	1813.3	1765.7	1708.2	1641.6	1572.3	1503.1	1447.7	1404.9	1388.0	1394.5
10°	1815.5	1803.4	1733.7	1641.6	1544.6	1441.2	1341.7	1263.8	1192.4	1155.7	1156.5
12.5°	1806.0	1786.1	1686.1	1566.7	1424.4	1285.9	1133.6	1028.5	945.8	896.9	881.8
15°	1797.7	1763.1	1630.3	1465.0	1288.1	1090.3	904.7	774.9	705.7	667.2	666.7
17.5°	1789.1	1741.1	1569.3	1357.3	1131.4	877.0	682.3	583.2	550.8	554.7	548.2
20°	1780.0	1715.1	1505.7	1237.4	940.6	654.2	511.0	470.7	479.8	497.6	500.2
22.5°	1769.6	1687.4	1437.3	1105.5	739.9	492.4	414.5	408.4	431.8	459.5	463.4
25°	1753.6	1652.8	1351.2	967.5	570.7	396.8	363.0	367.3	390.3	413.6	416.2
27.5°	1731.1	1610.0	1264.3	795.2	428.8	340.5	331.9	337.5	348.7	363.0	366.5
30°	1700.8	1561.5	1164.3	646.4	343.5	312.4	308.9	312.0	318.4	324.5	326.2
32.5°	1670.5	1514.8	1063.5	495.0	306.3	293.8	290.3	290.3	290.3	291.2	291.6
35°	1642.4	1470.6	955.3	385.5	286.9	279.1	274.3	269.1	268.3	265.2	265.2
37.5°	1626.8	1430.4	840.2	322.8	272.6	267.0	260.5	251.8	247.1	247.5	246.6
40°	1629.9	1404.0	735.5	287.3	260.9	254.8	244.9	234.9	231.9	231.9	231.0
42.5°	1664.1	1395.4	635.2	268.7	249.7	242.7	230.2	221.1	219.4	218.9	219.8
45°	1742.8	1416.6	545.2	256.6	240.1	229.7	217.2	209.0	207.2	207.2	206.8
47.5°	1896.4	1485.4	480.7	248.8	233.2	219.8	206.8	198.6	195.6	194.7	194.7
50°	2135.2	1634.6	432.7	241.9	224.6	210.7	197.3	187.8	183.0	182.6	182.2
52.5°	2467.1	1867.4	414.1	236.7	215.0	201.2	186.5	177.4	171.3	170.0	169.2
55°	2855.2	2192.3	439.6	232.8	205.1	190.4	175.2	165.7	160.1	157.5	157.1
57.5°	3304.7	2582.6	536.5	227.6	196.0	178.7	164.0	154.5	148.4	145.4	144.5
60°	3708.4	2983.7	705.7	224.6	188.2	166.1	151.0	142.3	136.7	133.7	133.3
62.5°	4151.9	3366.2	907.7	232.8	184.8	154.0	138.9	131.1	126.3	123.3	123.3
65°	4625.7	3749.1	1041.4	260.5	189.9	144.5	125.9	119.4	115.1	112.9	112.5
67.5°	4945.0	3881.5	858.0	289.0	202.9	134.1	113.4	108.2	105.6	103.4	103.4
69°	4910.4	3714.0	633.0	296.4	206.8	128.9	106.4	102.5	99.1	98.2	97.4
70°	4800.9	3523.2	530.5	291.6	203.8	124.2	102.1	97.4	94.3	93.5	93.0
72.5°	4276.1	3055.5	395.0	253.5	173.5	107.7	90.4	86.1	83.5	82.2	82.2
75°	3552.7	2497.4	308.5	201.6	135.9	90.9	77.4	74.0	71.8	71.0	70.5
77.5°	1991.2	1394.5	221.5	157.9	103.0	73.6	64.9	61.9	59.7	58.8	58.8
80°	554.7	398.5	130.2	104.3	70.1	55.8	51.5	49.3	46.3	44.1	45.4
82.5°	209.0	172.6	74.4	62.7	44.6	37.2	35.9	34.2	32.9	29.9	29.9
85°	101.7	83.9	47.6	33.3	24.7	19.5	18.6	17.7	16.9	14.7	15.1
87.5°	35.0	37.2	20.8	12.1	7.4	4.8	3.9	2.2	2.2	2.2	2.2
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)