

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: INVUE

Report Number: P401794

Luminaire Tested: **ENV-SA1F-727-U-SL3**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401794
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-3)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1F-727-U-SL3
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 2700K, 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: 6388 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66.1
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: 25 FT

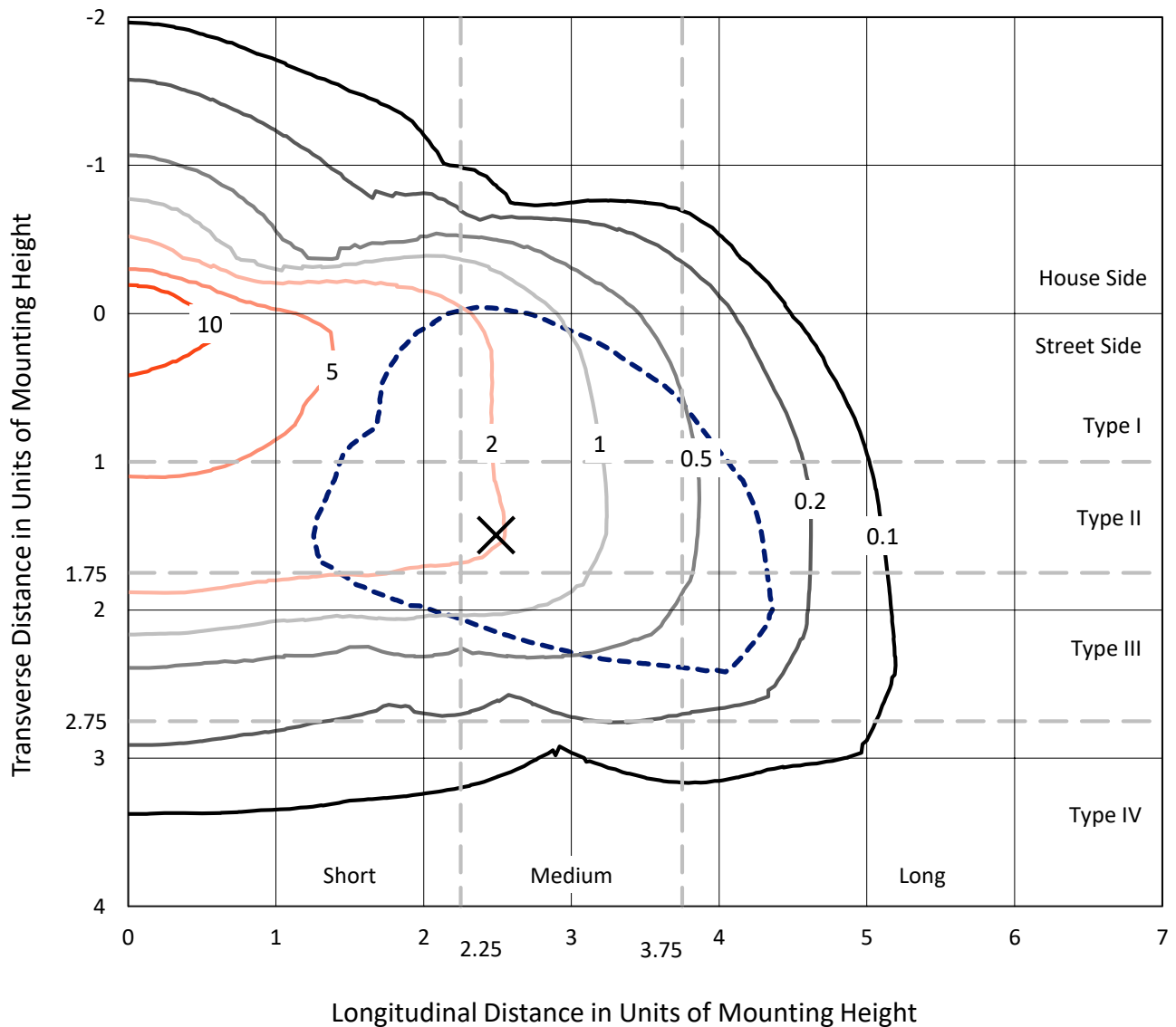


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

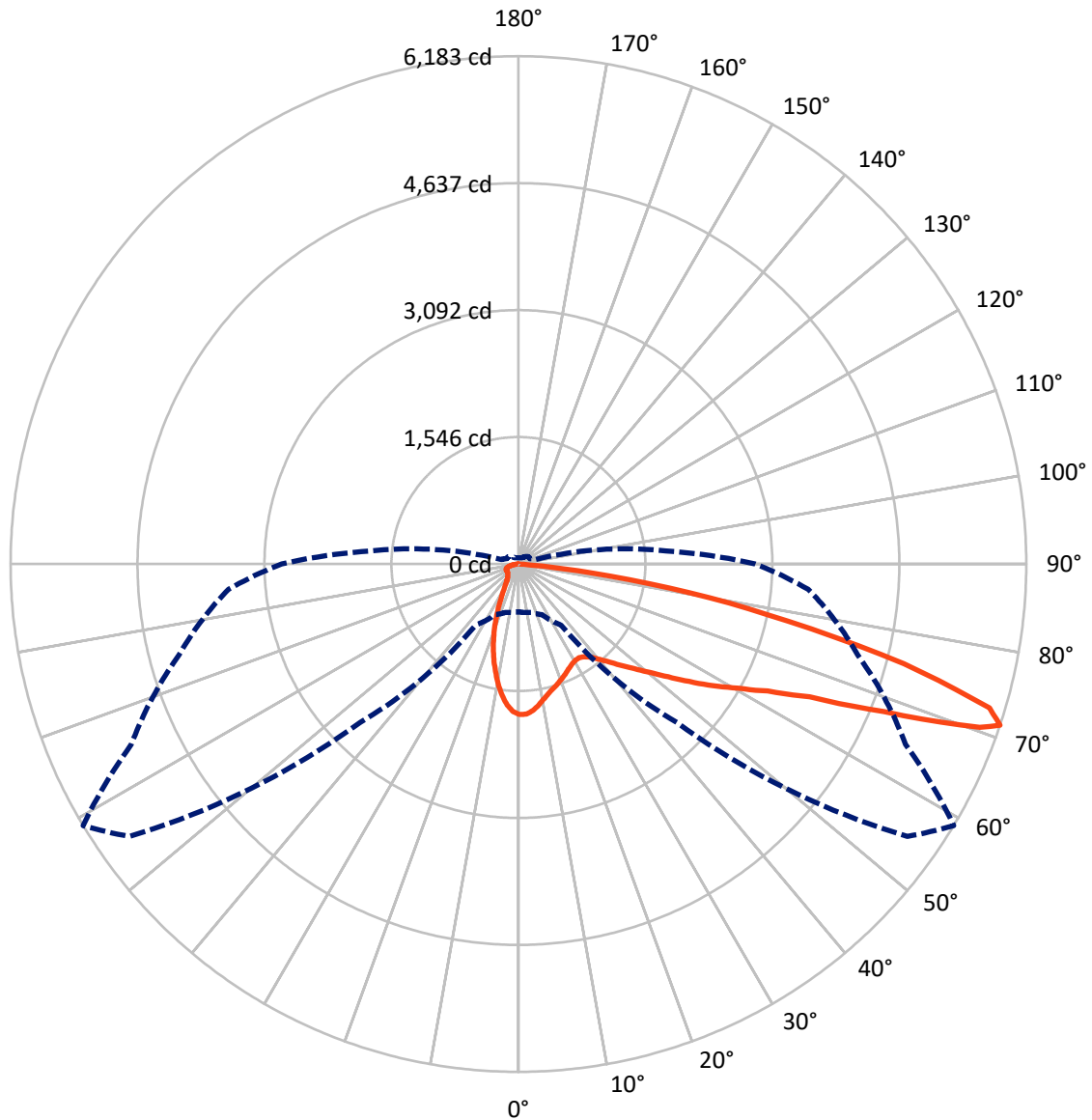


Based on 10 foot mounting height. Maximum calculated value = 18.3 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1084.2	0.0	1084.2
	% Fixture	17.0	0.0	17.0
Street Side	Lumens	5303.8	0.0	5303.8
	% Fixture	83.0	0.0	83.0
Total	Lumens	6388.0	0.0	6388.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	158.3	2.5
10°-20°	355.7	5.6
20°-30°	452.1	7.1
30°-40°	578.0	9.0
40°-50°	802.1	12.6
50°-60°	1187.6	18.6
60°-70°	1605.2	25.1
70°-80°	1138.3	17.8
80°-90°	110.6	1.7
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°	6388.0	100.0
0°-180°	6388.0	100.0



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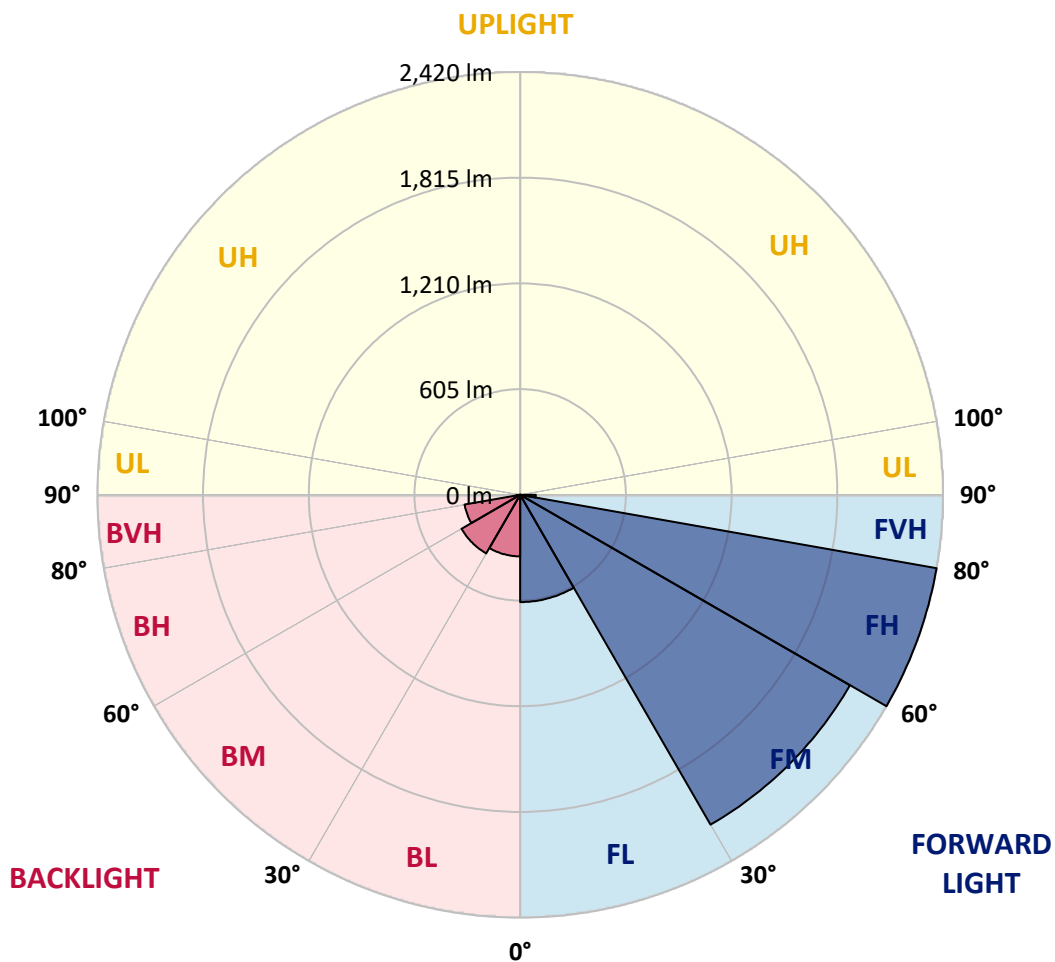
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	614.0	9.6			
FM (30°-60°)	2179.9	34.1			
FH (60°-80°)	2420.4	37.9			G2/5000
FVH (80°-90°)	89.5	1.4			G1/100
BL (0°-30°)	352.3	5.5	B1/500		
BM (30°-60°)	387.8	6.1	B1/1000		
BH (60°-80°)	323.1	5.1	B1/500		G1/500
BVH (80°-90°)	21.1	0.3			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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1832.7	1832.7	1832.7	1832.7	1832.7	1832.7	1832.7	1832.7	1832.7	1832.7	1832.7
2.5°	1817.0	1823.4	1826.2	1830.9	1830.9	1832.7	1830.9	1829.9	1833.6	1829.9	1819.7
5°	1736.4	1739.2	1747.5	1756.8	1766.1	1785.5	1791.1	1794.8	1803.1	1804.9	1794.8
7.5°	1627.2	1637.4	1648.5	1660.5	1680.0	1706.8	1730.0	1739.2	1755.0	1764.2	1749.4
10°	1534.7	1540.2	1545.8	1567.1	1597.6	1634.6	1658.7	1676.3	1701.3	1713.3	1699.4
12.5°	1442.1	1446.7	1457.8	1486.5	1518.0	1562.4	1605.9	1619.8	1649.4	1673.5	1662.4
15°	1370.8	1370.8	1379.2	1410.6	1443.9	1503.2	1554.1	1575.4	1612.4	1646.7	1632.8
17.5°	1307.9	1310.7	1316.2	1336.6	1382.9	1444.9	1509.7	1536.5	1582.8	1627.2	1608.7
20°	1272.7	1270.9	1274.6	1284.7	1321.8	1387.5	1465.2	1496.7	1554.1	1615.2	1585.6
22.5°	1260.7	1258.8	1256.0	1255.1	1279.2	1334.7	1418.0	1456.9	1528.2	1608.7	1564.3
25°	1269.9	1269.9	1261.6	1245.9	1257.0	1294.9	1375.5	1417.1	1499.5	1604.1	1544.8
27.5°	1294.9	1294.9	1282.9	1262.5	1257.9	1274.6	1338.4	1382.9	1475.4	1606.9	1529.1
30°	1329.2	1328.2	1316.2	1298.6	1284.7	1279.2	1320.8	1361.6	1458.8	1618.9	1521.7
32.5°	1368.0	1366.2	1360.6	1348.6	1331.9	1307.9	1322.7	1358.8	1455.1	1640.2	1522.6
35°	1414.3	1411.6	1414.3	1407.8	1392.1	1366.2	1356.9	1385.6	1473.6	1680.0	1538.4
37.5°	1455.1	1453.2	1467.1	1470.8	1467.1	1432.8	1420.8	1439.3	1517.1	1742.9	1570.8
40°	1489.3	1491.2	1516.1	1543.0	1548.5	1518.9	1510.6	1526.3	1587.4	1819.7	1629.1
42.5°	1527.3	1532.8	1569.8	1618.0	1636.5	1617.0	1621.7	1632.8	1676.3	1924.3	1713.3
45°	1564.3	1576.3	1627.2	1689.2	1736.4	1736.4	1752.2	1763.3	1791.1	2055.8	1836.4
47.5°	1629.1	1637.4	1692.9	1767.9	1840.1	1863.2	1906.8	1903.0	1924.3	2200.2	1980.8
50°	1713.3	1727.2	1783.6	1861.4	1953.0	2018.7	2068.7	2076.1	2084.5	2348.3	2152.0
52.5°	1829.9	1846.6	1892.9	1965.1	2073.4	2180.7	2286.2	2281.6	2270.5	2509.3	2348.3
55°	1947.5	1965.1	2008.6	2066.9	2194.6	2359.4	2531.5	2525.1	2474.1	2674.1	2529.7
57.5°	2066.9	2081.7	2127.0	2178.0	2328.8	2570.4	2790.7	2795.3	2690.7	2857.3	2709.3
60°	2116.9	2139.1	2251.1	2349.2	2538.0	2804.6	3055.4	3067.5	2915.7	3042.5	2907.3
62.5°	1891.0	1917.9	2103.0	2367.7	2825.0	3256.3	3399.8	3407.2	3186.9	3247.0	3123.9
65°	1399.5	1398.6	1590.2	1986.4	2767.6	3862.6	4013.4	3896.8	3523.8	3518.2	3409.9
67.5°	801.6	825.6	886.7	1184.8	2108.5	3974.6	5105.6	4801.1	4120.8	3940.3	3791.3
70°	646.1	640.5	659.0	738.6	1149.6	3268.3	5817.4	5956.3	4968.7	4284.6	3705.2
71°	582.2	590.5	609.0	681.2	907.1	2726.8	5782.3	6183.1	5200.1	4275.4	3541.4
72.5°	500.8	502.6	545.2	630.3	745.1	1923.4	5346.3	5996.1	5442.6	4154.1	3300.7
75°	340.6	345.3	411.9	507.2	680.3	913.6	3825.5	4850.2	4953.9	3882.0	2725.9
77.5°	195.3	199.0	247.1	371.2	579.4	644.2	2348.3	3351.6	3561.7	2838.8	1461.5
80°	100.9	105.5	137.0	234.2	442.4	521.1	1346.8	2107.6	2026.2	981.1	338.8
82.5°	26.8	30.5	39.8	84.2	213.8	339.7	597.0	871.9	622.9	203.6	123.1
85°	0.0	0.0	0.0	0.9	1.9	47.2	125.9	156.4	87.0	39.8	33.3
87.5°	0.0	0.0	0.0	0.0	0.9	1.9	1.9	1.9	1.9	2.8	3.7
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°	1832.7	1832.7	1832.7	1832.7	1832.7	1832.7	1832.7	1832.7	1832.7	1832.7	1832.7
2.5°	1817.9	1817.9	1812.3	1804.0	1794.8	1773.5	1777.2	1760.5	1762.4	1760.5	1760.5
5°	1786.4	1780.9	1767.0	1741.1	1712.4	1674.4	1668.9	1638.3	1620.7	1615.2	1621.7
7.5°	1742.9	1727.2	1692.0	1646.7	1592.0	1543.0	1497.6	1456.9	1426.4	1413.4	1407.8
10°	1685.5	1666.1	1608.7	1529.1	1454.1	1377.3	1306.0	1259.8	1198.7	1180.1	1174.6
12.5°	1638.3	1605.0	1518.9	1407.8	1291.2	1189.4	1093.1	996.0	937.6	896.0	889.5
15°	1597.6	1550.4	1427.3	1283.8	1138.5	997.8	867.3	736.8	654.4	619.2	594.2
17.5°	1561.5	1500.4	1335.7	1149.6	970.0	784.0	624.8	499.8	448.0	421.2	422.1
20°	1524.5	1446.7	1240.3	1015.4	803.4	597.0	441.5	383.2	357.3	351.7	349.0
22.5°	1489.3	1385.6	1139.4	883.0	633.1	438.7	355.4	326.7	320.3	320.3	320.3
25°	1449.5	1323.6	1037.6	747.9	479.5	346.2	305.5	295.3	297.1	300.8	301.7
27.5°	1417.1	1269.9	936.7	591.5	372.1	294.3	273.1	271.2	278.6	286.9	286.9
30°	1388.4	1220.9	827.5	461.9	296.2	258.2	250.8	253.6	261.0	268.4	271.2
32.5°	1369.0	1176.4	729.4	359.1	252.7	233.3	231.4	235.1	242.5	246.2	249.0
35°	1360.6	1144.1	623.9	289.7	224.9	214.7	213.8	216.6	220.3	221.2	220.3
37.5°	1369.9	1121.8	515.6	245.3	207.3	201.8	200.9	200.9	200.9	201.8	200.9
40°	1396.7	1113.5	418.4	216.6	196.2	191.6	188.8	186.0	184.2	184.2	183.3
42.5°	1453.2	1126.5	336.0	199.9	187.9	182.3	176.8	173.1	170.3	169.4	169.4
45°	1543.9	1162.6	279.5	188.8	180.5	172.2	165.7	162.0	159.2	160.1	159.2
47.5°	1668.9	1222.7	247.1	181.4	173.1	162.0	155.5	151.8	150.9	153.7	154.6
50°	1810.5	1307.9	227.7	175.9	167.5	153.7	146.2	143.5	144.4	149.9	150.9
52.5°	1977.1	1418.0	219.4	172.2	162.9	146.2	139.8	137.0	138.8	145.3	146.2
55°	2156.7	1543.9	231.4	174.0	158.3	141.6	134.2	130.5	133.3	138.8	139.8
57.5°	2339.0	1699.4	272.1	174.9	152.7	137.9	128.7	123.1	125.0	129.6	130.5
60°	2523.2	1854.0	342.5	175.9	150.9	134.2	124.0	115.7	116.6	119.4	120.3
62.5°	2739.8	2050.2	435.0	179.6	152.7	131.4	115.7	106.4	106.4	108.3	108.3
65°	3068.4	2342.7	496.1	177.7	157.4	128.7	107.4	98.1	97.2	98.1	98.1
67.5°	3304.4	2381.6	346.2	167.5	160.1	129.6	102.7	90.7	88.9	87.9	87.9
70°	3054.5	2003.9	228.6	158.3	155.5	131.4	99.0	86.1	82.4	79.6	78.7
71°	2881.4	1805.9	212.0	154.6	151.8	129.6	97.2	83.3	79.6	77.8	76.8
72.5°	2625.0	1611.5	195.3	149.0	143.5	125.9	94.4	80.5	75.9	73.1	72.2
75°	2074.3	1235.7	171.2	137.0	124.0	103.7	87.0	75.0	70.3	66.6	65.7
77.5°	937.6	491.5	131.4	118.5	100.9	82.4	75.9	69.4	63.9	61.1	60.2
80°	261.9	187.0	96.3	93.5	75.9	63.9	61.1	59.2	57.4	53.7	53.7
82.5°	121.3	109.2	68.5	65.7	51.8	45.4	48.1	49.1	49.1	45.4	44.4
85°	33.3	36.1	31.5	35.2	33.3	30.5	35.2	37.9	39.8	36.1	33.3
87.5°	2.8	6.5	8.3	13.9	16.7	17.6	22.2	26.8	27.8	22.2	23.1
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)