

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: P401650

Luminaire Tested: **ENT-SA1E-735-U-SL3**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401650
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: ENT-SA1E-735-U-SL3
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3500K, 1050mA 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: 6483 lumens
Efficiency: N/A
Efficacy: 113.3 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

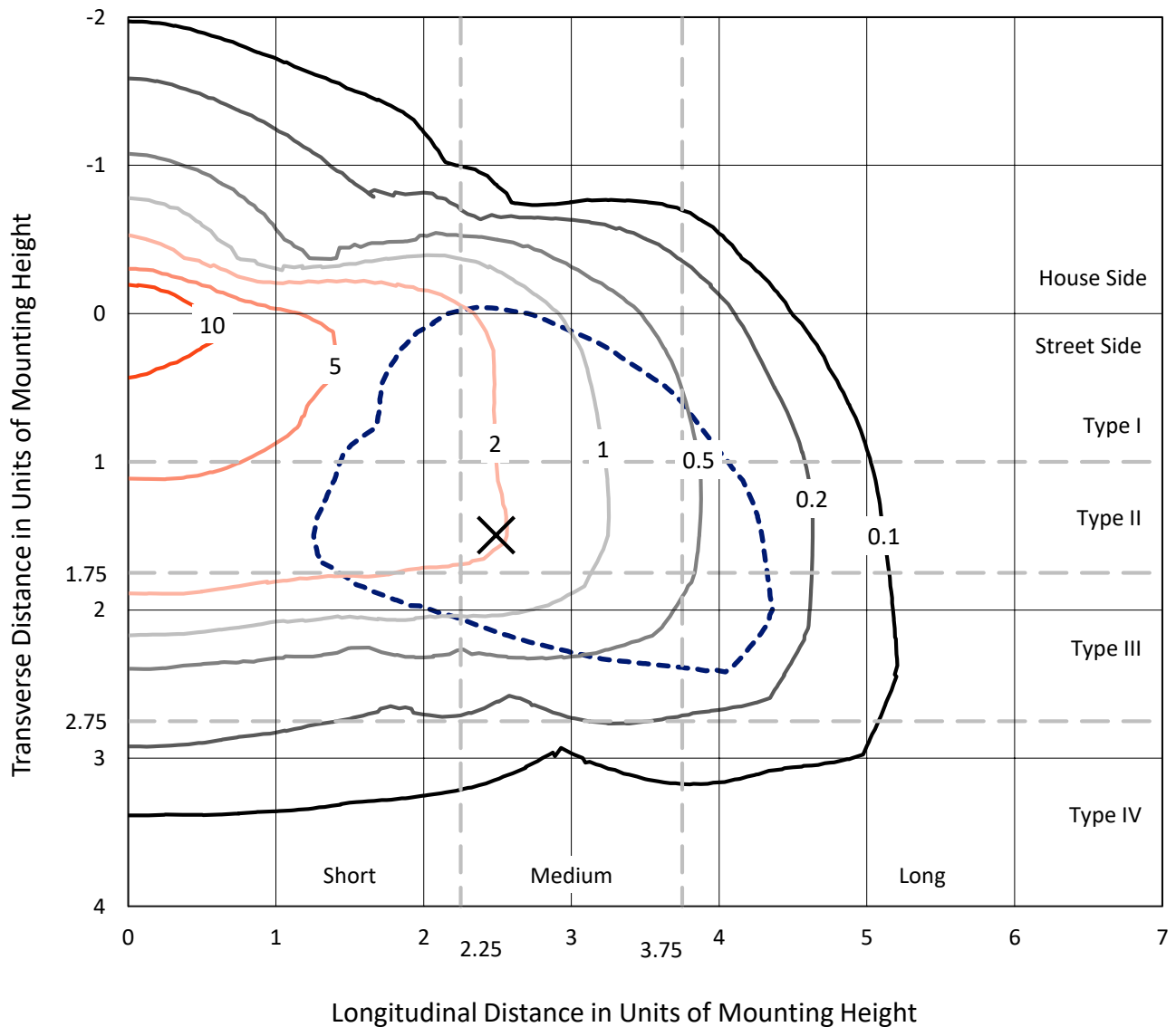
Input Watts (W): 57.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

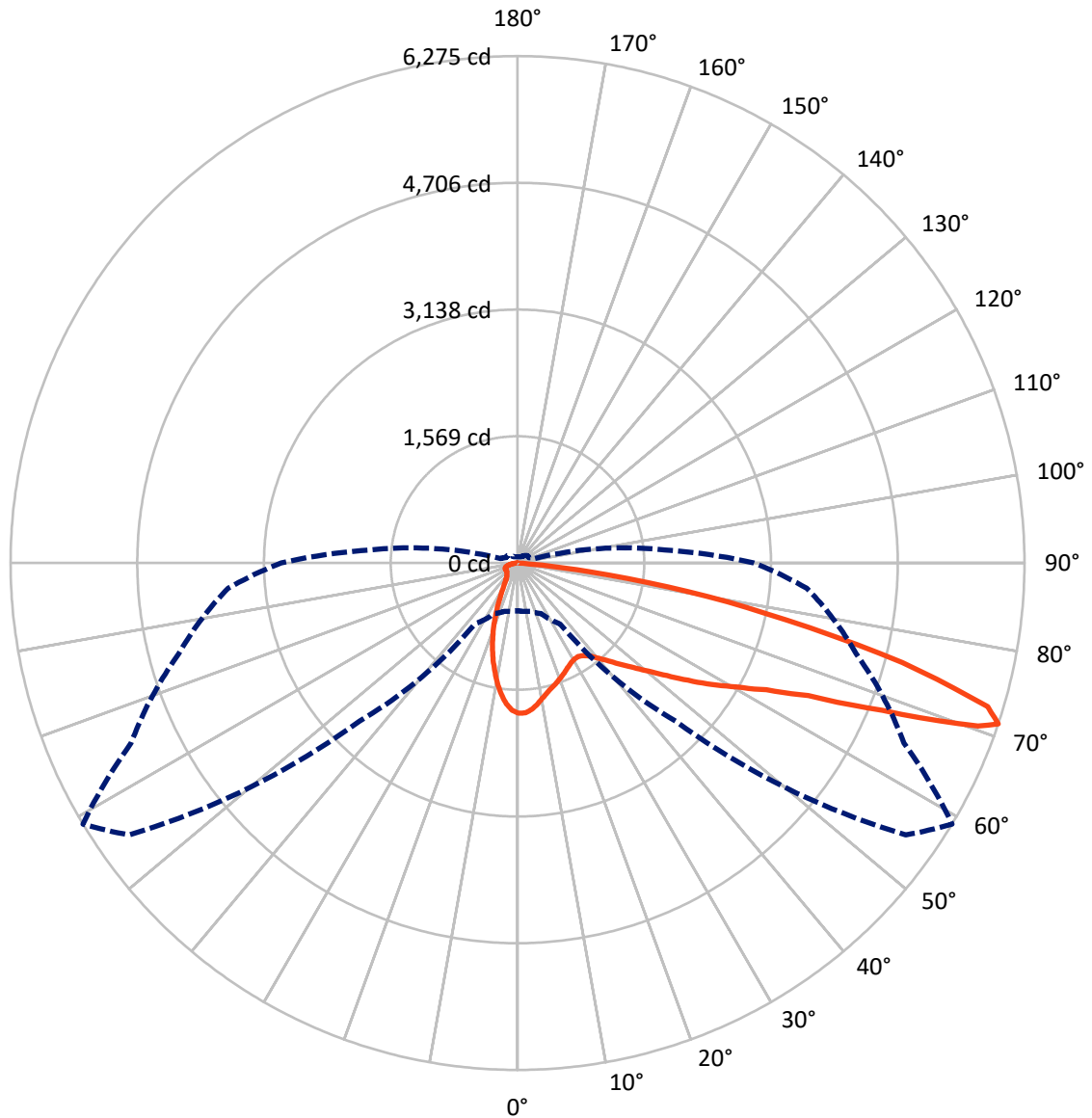
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.6 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	1100.3	0.0	1100.3
	% Fixture	17.0	0.0	17.0
Street Side	Lumens	5382.7	0.0	5382.7
	% Fixture	83.0	0.0	83.0
Total	Lumens	6483.0	0.0	6483.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	160.7	2.5
10°-20°	361.0	5.6
20°-30°	458.9	7.1
30°-40°	586.6	9.0
40°-50°	814.1	12.6
50°-60°	1205.3	18.6
60°-70°	1629.1	25.1
70°-80°	1155.2	17.8
80°-90°	112.2	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°	6483.0	100.0
0°-180°	6483.0	100.0



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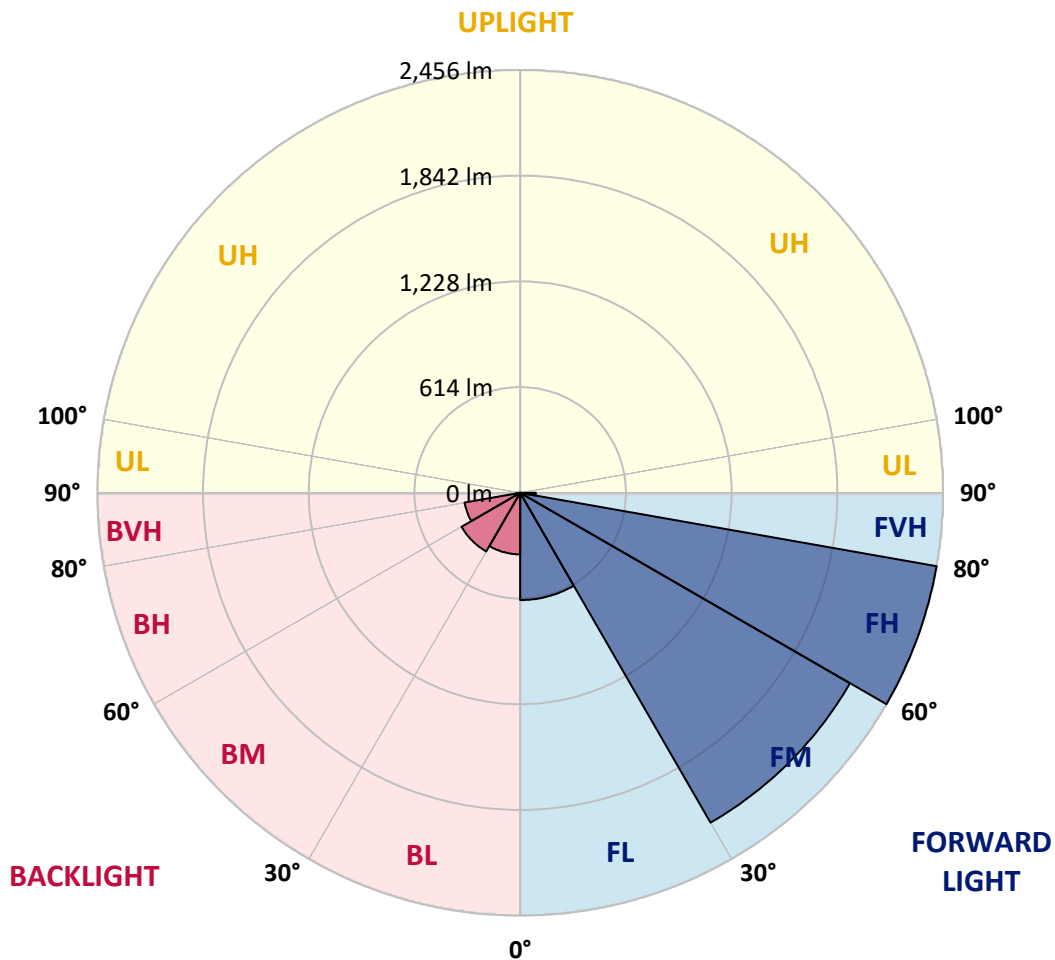
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	623.1	9.6			
FM	(30°-60°)	2212.4	34.1			
FH	(60°-80°)	2456.4	37.9			G2/5000
FVH	(80°-90°)	90.8	1.4			G1/100
BL	(0°-30°)	357.5	5.5	B1/500		
BM	(30°-60°)	393.5	6.1	B1/1000		
BH	(60°-80°)	327.9	5.1	B1/500		G1/500
BVH	(80°-90°)	21.4	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°	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0
2.5°	1844.0	1850.6	1853.4	1858.1	1858.1	1860.0	1858.1	1857.1	1860.9	1857.1	1846.8
5°	1762.3	1765.1	1773.5	1782.9	1792.3	1812.0	1817.7	1821.4	1829.9	1831.8	1821.4
7.5°	1651.4	1661.8	1673.0	1685.2	1705.0	1732.2	1755.7	1765.1	1781.1	1790.4	1775.4
10°	1557.5	1563.1	1568.8	1590.4	1621.4	1658.9	1683.4	1701.2	1726.6	1738.8	1724.7
12.5°	1463.5	1468.2	1479.5	1508.6	1540.6	1585.7	1629.8	1643.9	1674.0	1698.4	1687.1
15°	1391.2	1391.2	1399.7	1431.6	1465.4	1525.5	1577.2	1598.8	1636.4	1671.1	1657.1
17.5°	1327.3	1330.2	1335.8	1356.5	1403.4	1466.4	1532.1	1559.4	1606.3	1651.4	1632.6
20°	1291.6	1289.8	1293.5	1303.8	1341.4	1408.1	1487.0	1519.0	1577.2	1639.2	1609.1
22.5°	1279.4	1277.5	1274.7	1273.8	1298.2	1354.6	1439.1	1478.6	1550.9	1632.6	1587.5
25°	1288.8	1288.8	1280.4	1264.4	1275.7	1314.2	1395.9	1438.2	1521.8	1627.9	1567.8
27.5°	1314.2	1314.2	1302.0	1281.3	1276.6	1293.5	1358.3	1403.4	1497.4	1630.8	1551.8
30°	1348.9	1348.0	1335.8	1317.9	1303.8	1298.2	1340.5	1381.8	1480.5	1643.0	1544.3
32.5°	1388.4	1386.5	1380.9	1368.7	1351.8	1327.3	1342.4	1379.0	1476.7	1664.6	1545.3
35°	1435.4	1432.5	1435.4	1428.8	1412.8	1386.5	1377.1	1406.2	1495.5	1705.0	1561.2
37.5°	1476.7	1474.8	1488.9	1492.7	1488.9	1454.1	1441.9	1460.7	1539.6	1768.8	1594.1
40°	1511.5	1513.3	1538.7	1565.9	1571.6	1541.5	1533.1	1549.0	1611.0	1846.8	1653.3
42.5°	1550.0	1555.6	1593.2	1642.0	1660.8	1641.1	1645.8	1657.1	1701.2	1953.0	1738.8
45°	1587.5	1599.8	1651.4	1714.4	1762.3	1762.3	1778.2	1789.5	1817.7	2086.3	1863.7
47.5°	1653.3	1661.8	1718.1	1794.2	1867.5	1891.0	1935.1	1931.3	1953.0	2232.9	2010.3
50°	1738.8	1752.9	1810.2	1889.1	1982.1	2048.8	2099.5	2107.0	2115.5	2383.2	2184.0
52.5°	1857.1	1874.0	1921.0	1994.3	2104.2	2213.2	2320.3	2315.6	2304.3	2546.6	2383.2
55°	1976.4	1994.3	2038.4	2097.6	2227.3	2394.5	2569.2	2562.6	2510.9	2713.8	2567.3
57.5°	2097.6	2112.6	2158.7	2210.3	2363.5	2608.6	2832.2	2836.9	2730.8	2899.8	2749.5
60°	2148.3	2170.9	2284.6	2384.1	2575.8	2846.3	3100.9	3113.1	2959.0	3087.7	2950.6
62.5°	1919.1	1946.4	2134.3	2402.9	2867.0	3304.7	3450.3	3457.8	3234.3	3295.3	3170.4
65°	1420.3	1419.4	1613.8	2015.9	2808.7	3920.0	4073.1	3954.8	3576.2	3570.6	3460.6
67.5°	813.5	837.9	899.9	1202.4	2139.9	4033.7	5181.6	4872.5	4182.1	3998.9	3847.7
70°	655.7	650.0	668.8	749.6	1166.7	3316.9	5904.0	6044.9	5042.6	4348.4	3760.3
71°	590.9	599.3	618.1	691.4	920.6	2767.4	5868.3	6275.0	5277.4	4339.0	3594.0
72.5°	508.2	510.1	553.3	639.7	756.2	1952.0	5425.8	6085.3	5523.5	4215.9	3349.8
75°	345.7	350.4	418.0	514.8	690.4	927.2	3882.4	4922.3	5027.5	3939.7	2766.5
77.5°	198.2	202.0	250.8	376.7	588.0	653.8	2383.2	3401.5	3614.7	2881.1	1483.3
80°	102.4	107.1	139.0	237.7	449.0	528.9	1366.8	2139.0	2056.3	995.7	343.8
82.5°	27.2	31.0	40.4	85.5	217.0	344.7	605.9	884.9	632.2	206.7	124.9
85°	0.0	0.0	0.0	0.9	1.9	47.9	127.8	158.8	88.3	40.4	33.8
87.5°	0.0	0.0	0.0	0.0	0.9	1.9	1.9	1.9	1.9	2.8	3.8
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°	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0	1860.0
2.5°	1844.9	1844.9	1839.3	1830.8	1821.4	1799.8	1803.6	1786.7	1788.6	1786.7	1786.7
5°	1813.0	1807.4	1793.3	1767.0	1737.8	1699.3	1693.7	1662.7	1644.8	1639.2	1645.8
7.5°	1768.8	1752.9	1717.2	1671.1	1615.7	1565.9	1519.9	1478.6	1447.6	1434.4	1428.8
10°	1710.6	1690.9	1632.6	1551.8	1475.8	1397.8	1325.5	1278.5	1216.5	1197.7	1192.1
12.5°	1662.7	1628.9	1541.5	1428.8	1310.4	1207.1	1109.4	1010.8	951.6	909.3	902.7
15°	1621.4	1573.4	1448.5	1302.9	1155.4	1012.6	880.2	747.7	664.1	628.4	603.1
17.5°	1584.7	1522.7	1355.5	1166.7	984.5	795.6	634.1	507.3	454.7	427.4	428.4
20°	1547.1	1468.2	1258.8	1030.5	815.4	605.9	448.1	388.9	362.6	357.0	354.1
22.5°	1511.5	1406.2	1156.4	896.2	642.5	445.3	360.7	331.6	325.0	325.0	325.0
25°	1471.1	1343.3	1053.0	759.0	486.6	351.3	310.0	299.7	301.5	305.3	306.2
27.5°	1438.2	1288.8	950.6	600.3	377.6	298.7	277.1	275.2	282.8	291.2	291.2
30°	1409.1	1239.0	839.8	468.7	300.6	262.1	254.6	257.4	264.9	272.4	275.2
32.5°	1389.3	1193.9	740.2	364.5	256.4	236.7	234.8	238.6	246.1	249.9	252.7
35°	1380.9	1161.1	633.1	294.0	228.3	217.9	217.0	219.8	223.6	224.5	223.6
37.5°	1390.3	1138.5	523.2	248.9	210.4	204.8	203.8	203.8	203.8	204.8	203.8
40°	1417.5	1130.1	424.6	219.8	199.1	194.5	191.6	188.8	186.9	186.9	186.0
42.5°	1474.8	1143.2	341.0	202.9	190.7	185.1	179.4	175.7	172.8	171.9	171.9
45°	1566.9	1179.9	283.7	191.6	183.2	174.7	168.1	164.4	161.6	162.5	161.6
47.5°	1693.7	1240.9	250.8	184.1	175.7	164.4	157.8	154.1	153.1	155.9	156.9
50°	1837.4	1327.3	231.1	178.5	170.0	155.9	148.4	145.6	146.5	152.2	153.1
52.5°	2006.5	1439.1	222.6	174.7	165.3	148.4	141.8	139.0	140.9	147.5	148.4
55°	2188.7	1566.9	234.8	176.6	160.6	143.7	136.2	132.5	135.3	140.9	141.8
57.5°	2373.8	1724.7	276.2	177.5	155.0	140.0	130.6	124.9	126.8	131.5	132.5
60°	2560.7	1881.6	347.6	178.5	153.1	136.2	125.9	117.4	118.4	121.2	122.1
62.5°	2780.5	2080.7	441.5	182.2	155.0	133.4	117.4	108.0	108.0	109.9	109.9
65°	3114.0	2377.6	503.5	180.4	159.7	130.6	109.0	99.6	98.6	99.6	99.6
67.5°	3353.6	2417.0	351.3	170.0	162.5	131.5	104.3	92.1	90.2	89.2	89.2
70°	3099.9	2033.7	232.0	160.6	157.8	133.4	100.5	87.4	83.6	80.8	79.8
71°	2924.3	1832.7	215.1	156.9	154.1	131.5	98.6	84.5	80.8	78.9	78.0
72.5°	2664.1	1635.4	198.2	151.2	145.6	127.8	95.8	81.7	77.0	74.2	73.3
75°	2105.1	1254.1	173.8	139.0	125.9	105.2	88.3	76.1	71.4	67.6	66.7
77.5°	951.6	498.8	133.4	120.2	102.4	83.6	77.0	70.5	64.8	62.0	61.1
80°	265.8	189.8	97.7	94.9	77.0	64.8	62.0	60.1	58.2	54.5	54.5
82.5°	123.1	110.8	69.5	66.7	52.6	46.0	48.8	49.8	49.8	46.0	45.1
85°	33.8	36.6	31.9	35.7	33.8	31.0	35.7	38.5	40.4	36.6	33.8
87.5°	2.8	6.6	8.5	14.1	16.9	17.8	22.5	27.2	28.2	22.5	23.5
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)