

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: P401670

Luminaire Tested: **ENV-SA1E-740-U-SL3-HSS**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401670  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/20/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENV-SA1E-740-U-SL3-HSS  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 4000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5894 lumens  
Efficiency: N/A  
Efficacy: 103.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G2

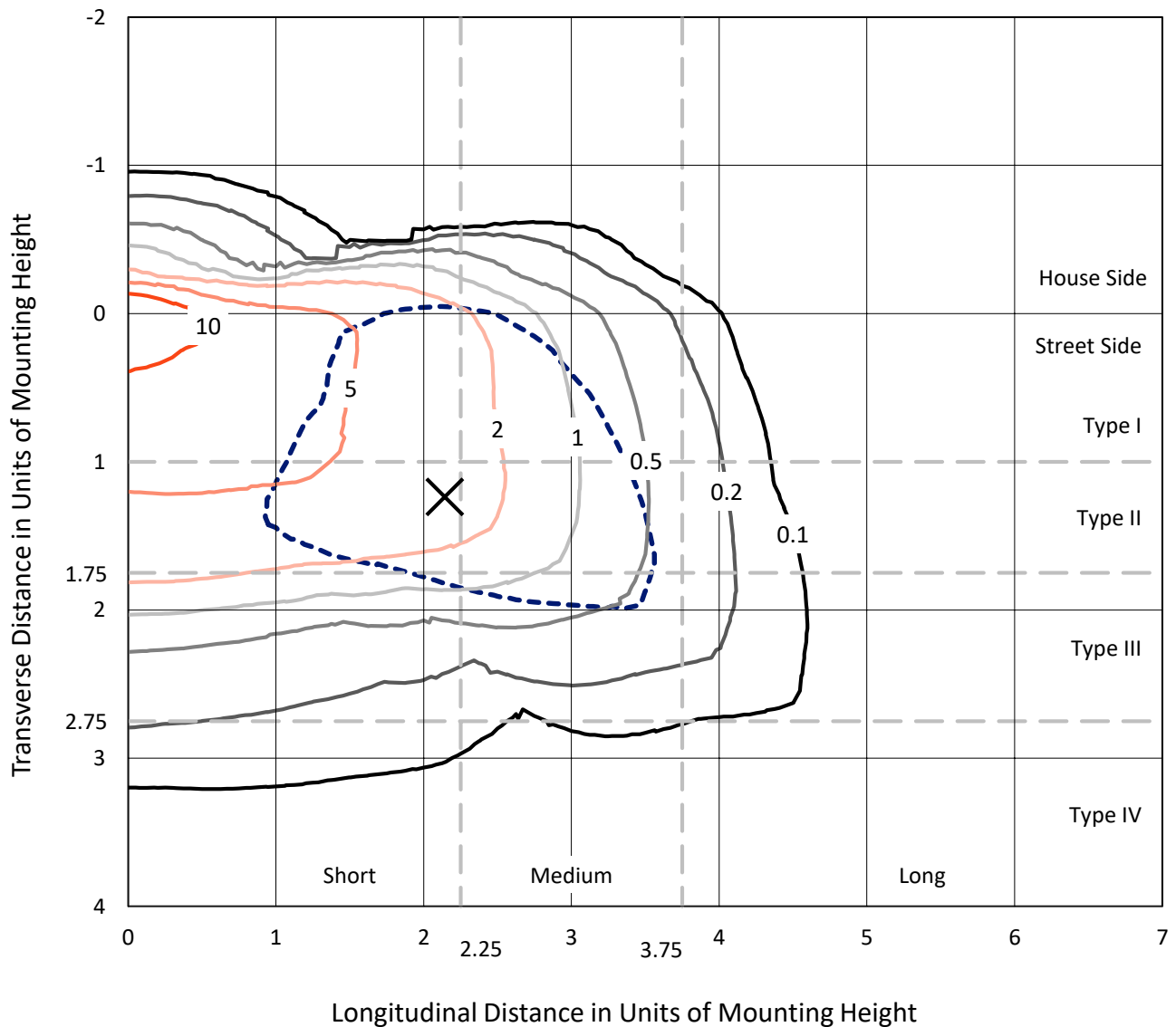
Input Watts (W): 57.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

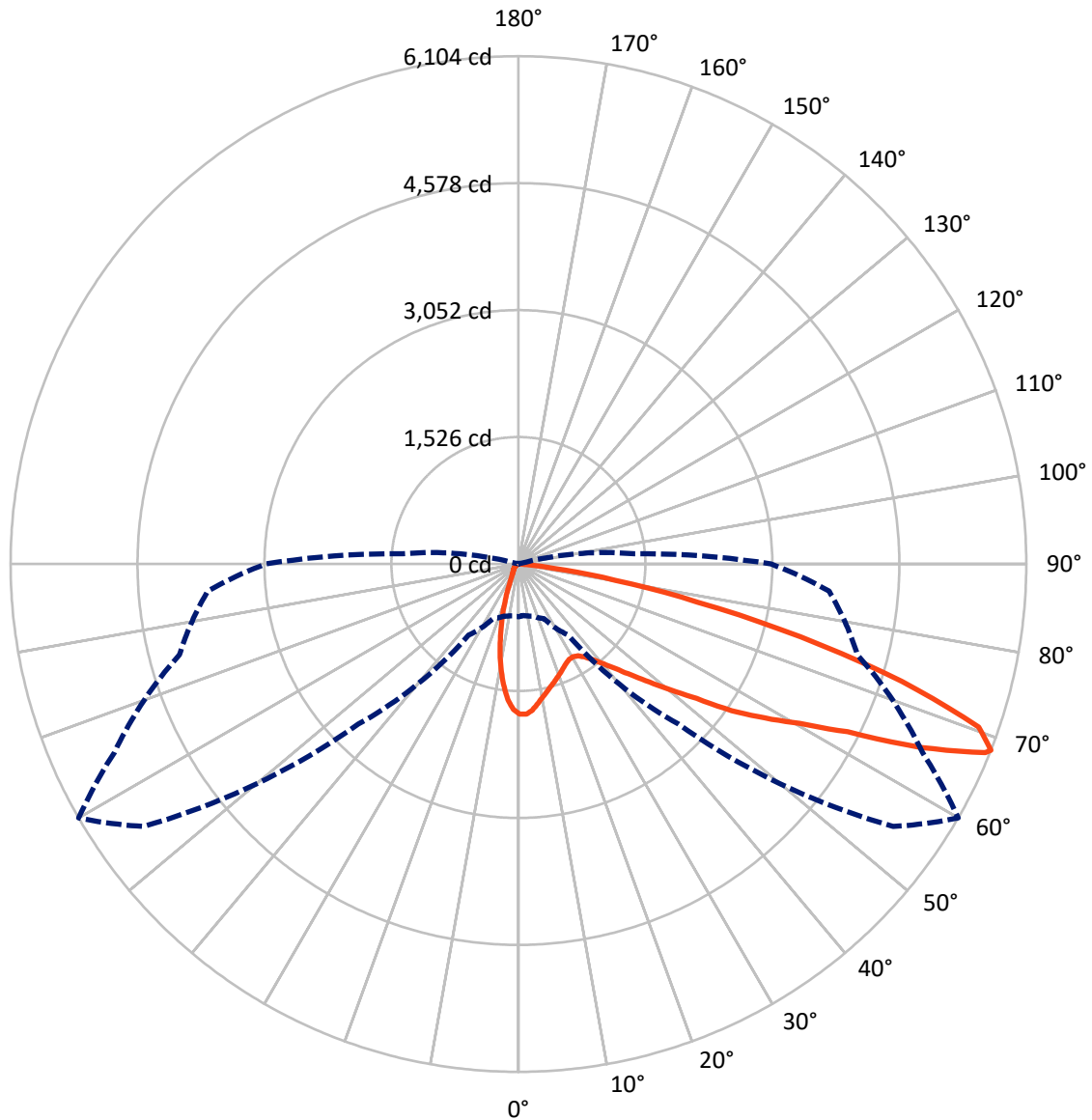


Based on 10 foot mounting height. Maximum calculated value = 18 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	659.0	0.0	659.0
	% Fixture	11.2	0.0	11.2
<b>Street Side</b>	Lumens	5235.0	0.0	5235.0
	% Fixture	88.8	0.0	88.8
<b>Total</b>	Lumens	5894.0	0.0	5894.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	146.4	2.5
10°-20°	298.6	5.1
20°-30°	393.1	6.7
30°-40°	542.5	9.2
40°-50°	822.4	14.0
50°-60°	1327.1	22.5
60°-70°	1576.4	26.7
70°-80°	743.1	12.6
80°-90°	44.4	0.8
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°	5894.0	100.0
0°-180°	5894.0	100.0



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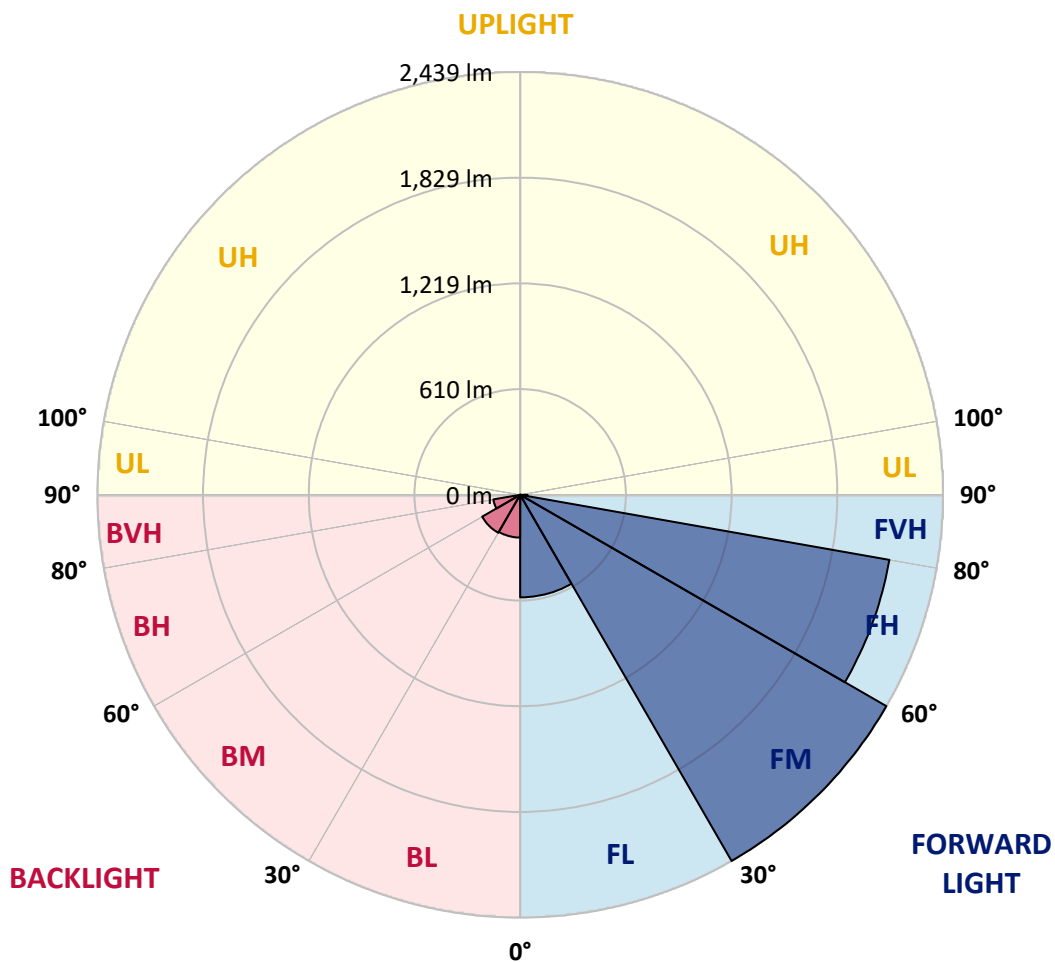
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	591.6	10.0			
FM	(30°-60°)	2438.7	41.4			
FH	(60°-80°)	2162.3	36.7			G2/5000
FVH	(80°-90°)	42.5	0.7			G1/100
BL	(0°-30°)	246.6	4.2	B1/500		
BM	(30°-60°)	253.3	4.3	B1/1000		
BH	(60°-80°)	157.2	2.7	B1/500		G1/500
BVH	(80°-90°)	1.9	0.0			G0/10
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°	60°	65°	75°	85°
0°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1
2.5°	1788.1	1784.1	1795.1	1798.1	1801.1	1807.1	1806.1	1807.1	1808.1	1806.1	1794.1
5°	1666.1	1673.1	1683.1	1696.1	1709.1	1739.1	1751.1	1763.1	1771.1	1777.1	1766.1
7.5°	1546.1	1560.1	1568.1	1592.1	1612.1	1643.1	1669.1	1690.1	1710.1	1732.1	1721.1
10°	1450.1	1455.1	1462.1	1484.1	1514.1	1561.1	1595.1	1621.1	1645.1	1682.1	1673.1
12.5°	1356.1	1359.1	1373.1	1397.1	1428.1	1486.1	1531.1	1561.1	1588.1	1634.1	1635.1
15°	1287.1	1288.1	1297.1	1319.1	1355.1	1417.1	1475.1	1508.1	1546.1	1602.1	1605.1
17.5°	1242.1	1241.1	1243.1	1257.1	1291.1	1350.1	1420.1	1459.1	1504.1	1576.1	1579.1
20°	1228.1	1226.1	1222.1	1219.1	1240.1	1291.1	1370.1	1413.1	1466.1	1557.1	1558.1
22.5°	1240.1	1236.1	1227.1	1210.1	1216.1	1249.1	1315.1	1367.1	1432.1	1547.1	1540.1
25°	1269.1	1269.1	1257.1	1230.1	1216.1	1223.1	1276.1	1326.1	1398.1	1542.1	1527.1
27.5°	1317.1	1315.1	1299.1	1271.1	1245.1	1226.1	1252.1	1299.1	1373.1	1548.1	1521.1
30°	1375.1	1369.1	1352.1	1332.1	1300.1	1259.1	1257.1	1292.1	1361.1	1567.1	1525.1
32.5°	1430.1	1430.1	1423.1	1404.1	1373.1	1319.1	1288.1	1316.1	1376.1	1598.1	1538.1
35°	1498.1	1497.1	1499.1	1492.1	1465.1	1408.1	1358.1	1372.1	1422.1	1650.1	1569.1
37.5°	1552.1	1553.1	1570.1	1582.1	1570.1	1510.1	1458.1	1458.1	1500.1	1728.1	1622.1
40°	1605.1	1607.1	1639.1	1674.1	1677.1	1629.1	1579.1	1578.1	1602.1	1824.1	1704.1
42.5°	1653.1	1661.1	1707.1	1767.1	1802.1	1770.1	1733.1	1721.1	1733.1	1969.1	1837.1
45°	1704.1	1720.1	1784.1	1871.1	1928.1	1929.1	1915.1	1901.1	1907.1	2132.1	2015.1
47.5°	1770.1	1788.1	1868.1	1975.1	2083.1	2111.1	2124.1	2119.1	2103.1	2338.1	2245.1
50°	1877.1	1894.1	1969.1	2089.1	2237.1	2338.1	2373.1	2379.1	2358.1	2566.1	2506.1
52.5°	2059.1	2069.1	2139.1	2234.1	2400.1	2589.1	2681.1	2682.1	2635.1	2833.1	2788.1
55°	2254.1	2280.1	2362.1	2472.1	2643.1	2855.1	3085.1	3110.2	2965.1	3067.1	2994.1
57.5°	2257.1	2282.1	2418.1	2629.1	2987.1	3268.2	3473.2	3491.2	3330.2	3255.2	3188.2
60°	2019.1	2032.1	2221.1	2530.1	3110.2	3825.2	3915.2	3888.2	3586.2	3449.2	3431.2
62.5°	1425.1	1431.1	1655.1	2062.1	2838.1	4091.2	4588.2	4443.2	3950.2	3735.2	3795.2
65°	897.0	894.0	987.0	1312.1	2111.1	3829.2	5420.3	5314.3	4619.2	4093.2	4079.2
67.5°	662.0	646.0	671.0	772.0	1206.1	3006.1	5573.3	6051.3	5256.3	4242.2	3833.2
68°	635.0	621.0	647.0	725.0	1043.1	2721.1	5499.3	6104.3	5357.3	4218.2	3749.2
70°	539.0	526.0	548.0	607.0	726.0	1766.1	4852.2	5869.3	5449.3	4014.2	3304.2
72.5°	383.0	390.0	448.0	521.0	615.0	906.0	3573.2	4820.2	4687.2	3570.2	2514.1
75°	227.0	240.0	316.0	420.0	565.0	598.0	2305.1	3504.2	3439.2	2472.1	1362.1
77.5°	80.0	85.0	157.0	280.0	466.0	474.0	1284.1	2203.1	2049.1	1010.0	402.0
80°	29.0	29.0	58.0	156.0	301.0	362.0	682.0	1176.1	809.0	262.0	111.0
82.5°	5.0	5.0	13.0	53.0	133.0	193.0	317.0	418.0	240.0	58.0	55.0
85°	0.0	0.0	0.0	0.0	2.0	2.0	93.0	94.0	44.0	8.0	24.0
87.5°	0.0	0.0	0.0	0.0	0.0	1.0	2.0	2.0	2.0	2.0	3.0
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°	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1	1804.1
2.5°	1789.1	1787.1	1776.1	1756.1	1739.1	1711.1	1706.1	1679.1	1669.1	1661.1	1669.1
5°	1758.1	1747.1	1710.1	1665.1	1604.1	1532.1	1490.1	1432.1	1420.1	1388.1	1407.1
7.5°	1707.1	1682.1	1613.1	1516.1	1404.1	1294.1	1210.1	1129.1	1060.1	1036.1	1029.0
10°	1653.1	1618.1	1502.1	1352.1	1190.1	1021.0	896.0	779.0	714.0	653.0	651.0
12.5°	1602.1	1549.1	1381.1	1172.1	946.0	745.0	583.0	460.0	383.0	341.0	352.0
15°	1561.1	1490.1	1259.1	992.0	706.0	480.0	330.0	251.0	224.0	211.0	213.0
17.5°	1521.1	1427.1	1141.1	804.0	503.0	296.0	214.0	187.0	179.0	176.0	174.0
20°	1485.1	1366.1	1017.0	634.0	332.0	205.0	176.0	167.0	164.0	162.0	162.0
22.5°	1449.1	1302.1	893.0	470.0	227.0	168.0	158.0	154.0	152.0	149.0	149.0
25°	1416.1	1240.1	769.0	329.0	174.0	150.0	143.0	139.0	135.0	132.0	132.0
27.5°	1391.1	1193.1	654.0	233.0	146.0	135.0	128.0	121.0	116.0	112.0	112.0
30°	1375.1	1147.1	543.0	176.0	130.0	120.0	111.0	102.0	94.0	89.0	88.0
32.5°	1366.1	1109.1	440.0	144.0	116.0	105.0	94.0	84.0	75.0	69.0	69.0
35°	1370.1	1079.1	337.0	122.0	105.0	92.0	80.0	68.0	60.0	55.0	54.0
37.5°	1396.1	1062.1	251.0	108.0	94.0	80.0	68.0	56.0	48.0	44.0	43.0
40°	1445.1	1066.1	191.0	98.0	86.0	70.0	56.0	46.0	39.0	35.0	35.0
42.5°	1544.1	1095.1	151.0	90.0	77.0	60.0	47.0	38.0	32.0	29.0	28.0
45°	1675.1	1150.1	124.0	83.0	68.0	51.0	40.0	32.0	26.0	23.0	23.0
47.5°	1873.1	1238.1	107.0	76.0	59.0	43.0	33.0	26.0	20.0	18.0	17.0
50°	2102.1	1361.1	94.0	68.0	52.0	36.0	28.0	20.0	16.0	13.0	13.0
52.5°	2336.1	1498.1	85.0	61.0	45.0	31.0	22.0	15.0	11.0	9.0	9.0
55°	2551.1	1613.1	76.0	55.0	38.0	26.0	18.0	12.0	8.0	6.0	6.0
57.5°	2759.1	1718.1	66.0	48.0	31.0	21.0	14.0	9.0	6.0	4.0	4.0
60°	3020.1	1854.1	57.0	41.0	25.0	17.0	11.0	7.0	4.0	3.0	2.0
62.5°	3335.2	1953.1	48.0	33.0	20.0	13.0	8.0	5.0	3.0	1.0	1.0
65°	3451.2	1822.1	40.0	27.0	16.0	10.0	6.0	4.0	2.0	1.0	1.0
67.5°	3127.2	1468.1	32.0	21.0	12.0	7.0	5.0	3.0	2.0	1.0	1.0
68°	3037.1	1396.1	31.0	20.0	11.0	7.0	4.0	3.0	1.0	1.0	0.0
70°	2564.1	1121.1	25.0	15.0	9.0	6.0	4.0	2.0	1.0	1.0	0.0
72.5°	1901.1	773.0	18.0	10.0	6.0	4.0	3.0	2.0	1.0	1.0	0.0
75°	1003.0	301.0	14.0	8.0	5.0	4.0	3.0	3.0	2.0	1.0	1.0
77.5°	288.0	95.0	11.0	6.0	5.0	5.0	5.0	4.0	4.0	3.0	2.0
80°	84.0	31.0	7.0	4.0	5.0	5.0	6.0	5.0	5.0	4.0	4.0
82.5°	45.0	12.0	4.0	3.0	3.0	4.0	5.0	4.0	3.0	2.0	1.0
85°	19.0	4.0	3.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0
87.5°	1.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)