

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: P401454

Luminaire Tested: **ENV-SA1D-730-U-SL4**

Issue Date: 5/20/2020

Test Information

Test Method: LM-79-08
Report Number: P401454
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2004-754-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/20/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENV-SA1D-730-U-SL4
Description: ENTRI LED LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4875 lumens
Efficiency: N/A
Efficacy: 113.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 43.1
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

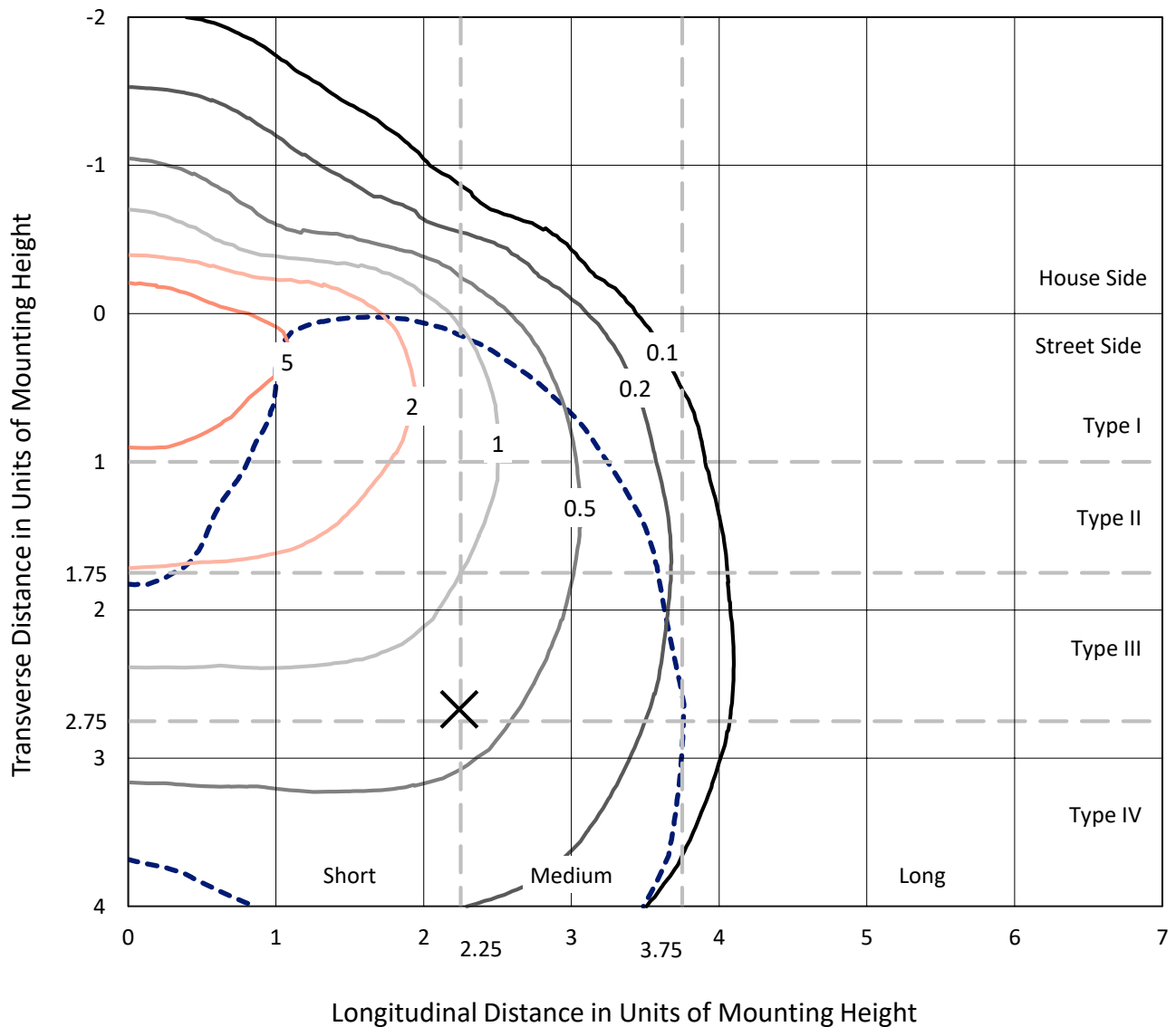


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

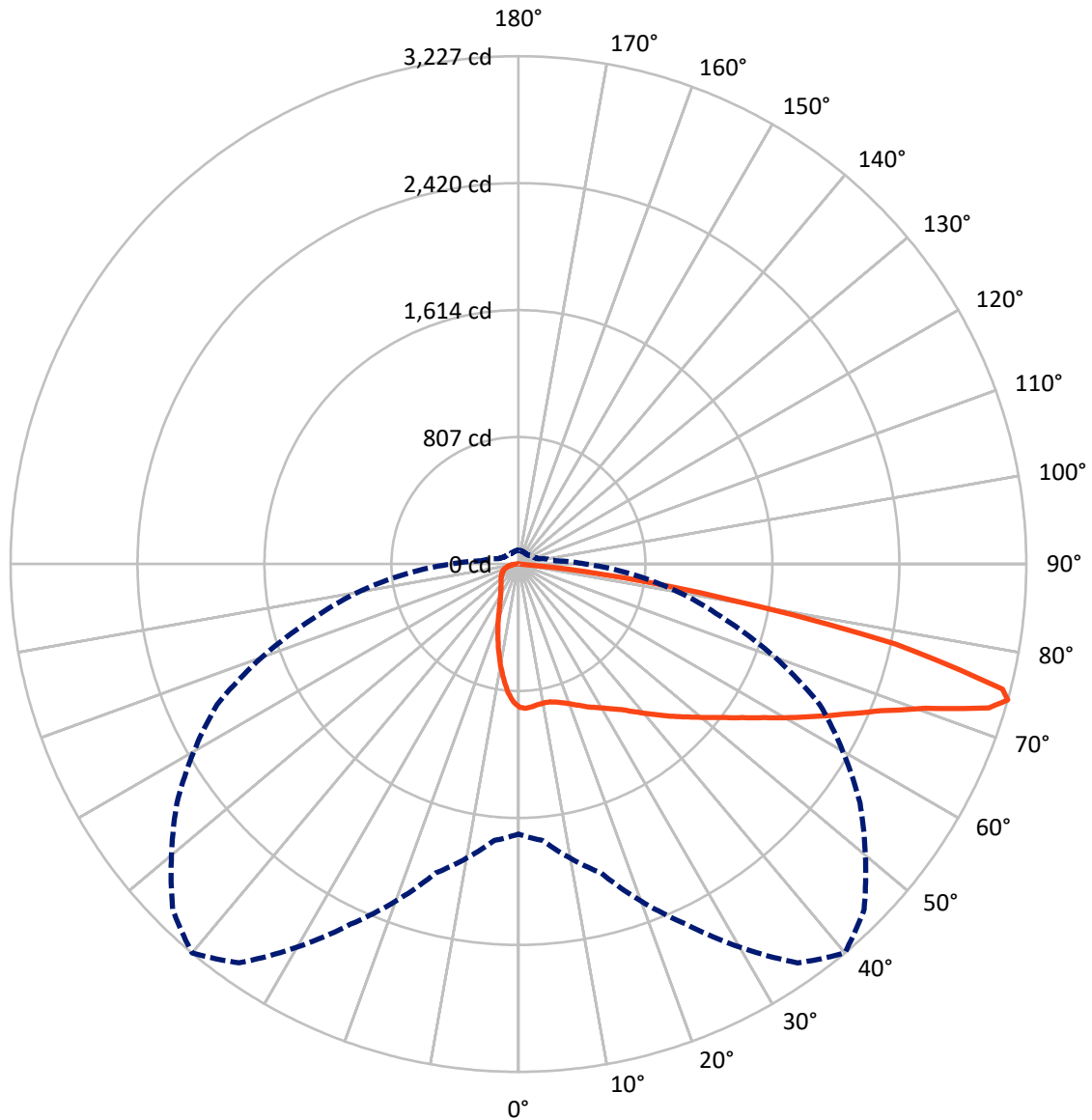


Based on 10 foot mounting height. Maximum calculated value = 9.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	760.1	0.0	760.1
	% Fixture	15.6	0.0	15.6
Street Side	Lumens	4114.9	0.0	4114.9
	% Fixture	84.4	0.0	84.4
Total	Lumens	4875.0	0.0	4875.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.3	1.6
10°-20°	206.9	4.2
20°-30°	317.3	6.5
30°-40°	458.3	9.4
40°-50°	659.3	13.5
50°-60°	910.3	18.7
60°-70°	1147.7	23.5
70°-80°	995.2	20.4
80°-90°	99.6	2.0
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°	4875.0	100.0
0°-180°	4875.0	100.0



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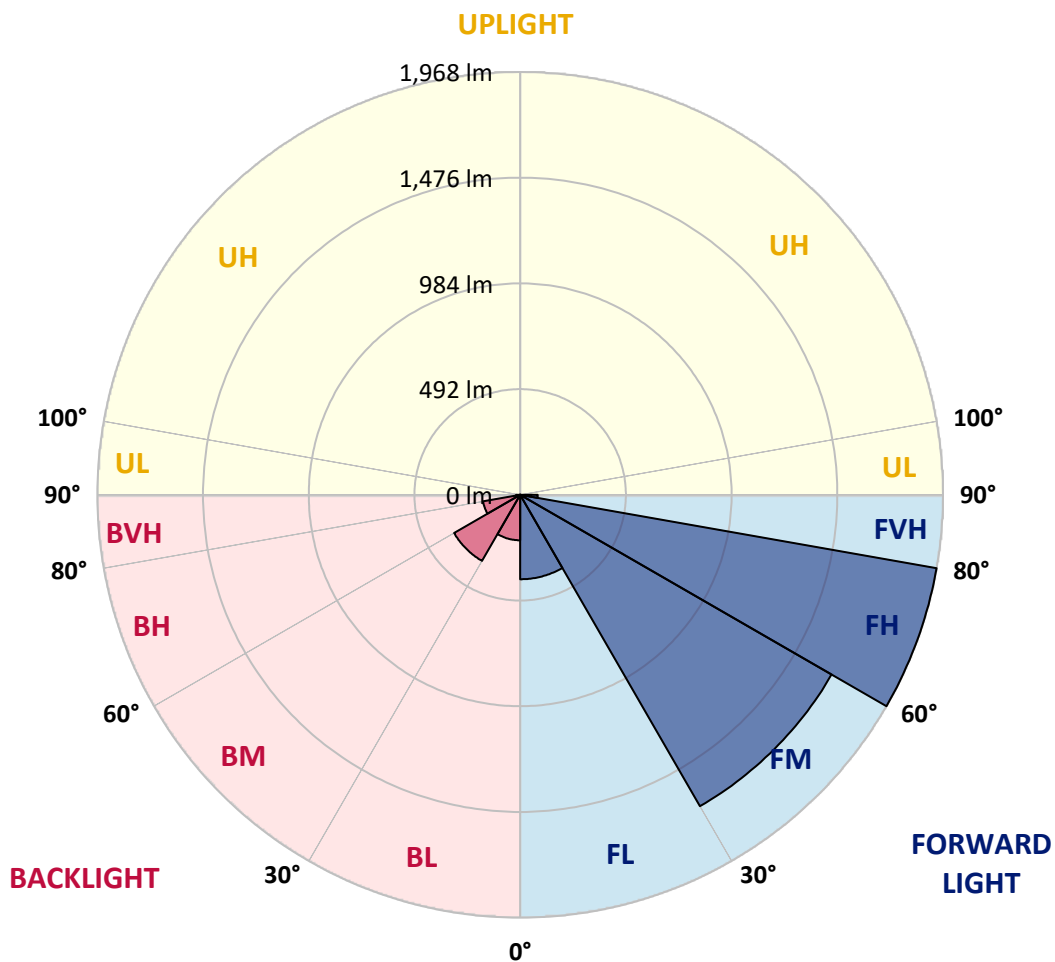
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	393.0	8.1			
FM (30°-60°)	1672.9	34.3			
FH (60°-80°)	1967.5	40.4			G2/5000
FVH (80°-90°)	81.5	1.7			G1/100
BL (0°-30°)	211.5	4.3	B1/500		
BM (30°-60°)	355.0	7.3	B1/1000		
BH (60°-80°)	175.4	3.6	B1/500		G1/500
BVH (80°-90°)	18.2	0.4			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0
2.5°	921.7	920.9	923.1	921.7	919.5	918.0	917.3	912.9	911.4	907.1	901.2
5°	918.0	918.0	918.0	916.6	912.2	910.7	909.3	902.7	898.3	891.0	880.0
7.5°	905.6	907.8	907.1	906.3	902.7	901.2	899.0	891.0	885.1	874.2	860.3
10°	893.9	893.9	894.6	897.6	896.1	896.8	896.1	887.3	879.3	865.4	847.9
12.5°	877.1	880.0	884.4	892.4	896.1	899.0	899.0	892.4	883.7	866.9	846.4
15°	866.9	870.5	881.5	896.1	904.9	910.0	911.4	903.4	892.4	875.6	853.0
17.5°	862.5	866.9	887.3	907.8	923.1	927.5	928.3	919.5	907.8	887.3	861.0
20°	866.9	872.0	899.0	926.8	945.1	948.7	950.2	937.8	923.1	903.4	869.1
22.5°	883.7	891.0	920.9	950.9	969.9	975.0	973.6	956.0	941.4	920.2	879.3
25°	920.2	924.6	951.6	983.8	998.4	1004.3	1000.6	980.9	961.9	940.7	893.9
27.5°	962.6	968.5	997.0	1021.1	1030.6	1032.0	1028.4	1007.9	986.7	969.2	916.6
30°	1013.8	1018.9	1042.3	1060.5	1061.3	1062.0	1059.8	1036.4	1018.9	1005.0	949.5
32.5°	1067.9	1068.6	1092.7	1101.5	1095.6	1097.8	1095.6	1070.1	1057.6	1053.2	992.6
35°	1117.6	1118.3	1143.1	1146.1	1136.6	1137.3	1141.7	1111.7	1111.7	1121.9	1056.9
37.5°	1165.1	1167.3	1189.2	1186.3	1182.6	1189.2	1195.0	1169.5	1184.1	1213.3	1135.1
40°	1200.9	1206.0	1235.2	1233.8	1241.8	1248.4	1253.5	1240.4	1263.7	1320.8	1231.6
42.5°	1224.3	1234.5	1276.2	1286.4	1300.3	1312.0	1320.8	1320.0	1361.0	1439.9	1333.9
45°	1248.4	1258.6	1314.2	1339.0	1362.4	1380.7	1397.5	1406.3	1471.3	1565.6	1453.0
47.5°	1277.6	1286.4	1348.5	1397.5	1427.5	1452.3	1482.3	1501.3	1583.9	1693.5	1563.4
50°	1322.2	1328.1	1383.6	1459.6	1497.6	1532.0	1569.3	1608.0	1705.2	1824.3	1659.9
52.5°	1380.0	1383.6	1424.5	1522.5	1583.1	1619.7	1675.2	1726.4	1828.7	1942.8	1738.8
55°	1445.7	1442.8	1474.2	1597.8	1668.7	1723.5	1792.2	1844.1	1958.8	2045.8	1801.7
57.5°	1511.5	1509.3	1534.2	1670.1	1776.8	1841.2	1912.1	1966.9	2078.0	2142.3	1847.0
60°	1574.4	1566.3	1601.4	1754.9	1907.7	1981.5	2045.1	2095.5	2190.5	2211.7	1871.1
62.5°	1629.9	1629.9	1681.1	1859.4	2064.1	2130.6	2181.0	2214.7	2298.0	2262.9	1861.6
65°	1681.1	1687.7	1760.8	1976.4	2226.3	2294.3	2338.2	2351.3	2404.7	2265.1	1781.2
67.5°	1738.8	1749.1	1852.1	2113.1	2413.5	2485.8	2523.8	2519.4	2480.7	2231.5	1608.7
70°	1795.1	1811.9	1965.4	2289.2	2644.4	2742.4	2784.0	2697.8	2520.2	2045.1	1336.1
72.5°	1836.0	1864.5	2058.2	2465.4	2975.5	3126.1	3109.3	2746.8	2335.3	1685.5	1010.8
74°	1716.2	1763.7	2032.7	2526.0	3094.7	3227.0	3106.4	2649.5	2112.3	1357.3	716.3
75°	1576.6	1622.6	1903.3	2501.9	3117.3	3176.5	2955.8	2478.5	1894.5	1051.8	467.8
77.5°	1167.3	1203.1	1461.8	1972.7	2465.4	2447.8	2200.8	1679.6	933.4	317.2	197.3
80°	515.3	542.3	721.4	992.6	1335.4	1330.3	1238.9	771.8	301.1	165.9	120.6
82.5°	155.7	155.0	207.6	289.4	507.3	516.8	439.3	266.1	144.0	68.7	58.5
85°	0.7	0.7	0.7	0.7	2.2	19.0	16.1	51.2	26.3	12.4	21.2
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0	910.0
2.5°	897.6	896.8	894.6	889.5	885.9	874.9	878.6	871.2	870.5	869.1	868.3
5°	874.9	872.0	863.2	853.0	841.3	823.0	817.2	806.2	799.6	797.4	798.9
7.5°	851.5	844.9	828.1	806.2	782.8	755.8	736.0	720.7	709.7	706.1	700.9
10°	836.9	825.9	797.4	760.9	722.9	684.9	652.0	629.3	612.5	599.3	599.3
12.5°	831.8	817.2	775.5	722.1	667.3	613.2	565.7	535.8	507.3	493.4	491.2
15°	834.7	814.2	757.2	687.1	614.0	543.8	485.3	442.2	415.2	398.3	404.2
17.5°	837.6	812.0	738.2	649.8	562.1	480.9	413.0	364.0	331.1	322.3	318.7
20°	841.3	807.7	714.1	609.6	508.7	420.3	348.6	298.9	274.1	263.1	263.1
22.5°	846.4	801.8	689.2	565.0	453.9	361.1	294.6	257.3	237.5	231.0	231.0
25°	853.7	798.2	663.7	520.4	402.0	314.3	258.7	229.5	219.3	214.9	214.2
27.5°	867.6	798.9	638.8	475.1	350.8	274.8	233.2	214.2	206.1	203.9	203.2
30°	888.8	806.2	612.5	426.9	305.5	244.9	215.6	202.5	197.3	195.9	195.9
32.5°	918.0	819.3	590.6	383.7	271.9	220.7	201.0	192.2	189.3	187.8	188.6
35°	963.3	842.0	564.3	344.3	240.5	203.9	189.3	182.7	180.5	180.5	181.3
37.5°	1022.5	877.1	538.7	307.7	219.3	189.3	178.3	174.7	172.5	174.0	174.7
40°	1097.1	918.8	514.6	274.8	201.7	177.6	168.8	165.9	165.2	166.6	168.1
42.5°	1177.5	969.2	492.6	247.8	187.8	168.1	160.8	159.3	158.6	159.3	161.5
45°	1271.1	1026.9	474.4	227.3	177.6	160.1	153.5	152.0	151.3	152.8	154.2
47.5°	1357.3	1078.8	459.7	213.4	168.8	154.2	147.6	145.5	145.5	145.5	146.9
50°	1427.5	1119.8	451.0	203.9	161.5	147.6	141.8	139.6	138.9	138.1	138.9
52.5°	1488.1	1150.5	448.0	198.1	155.7	141.8	135.9	134.5	133.0	131.6	132.3
55°	1528.3	1165.8	442.2	193.0	150.6	135.2	130.1	128.6	127.2	125.0	125.0
57.5°	1551.7	1164.3	429.0	190.0	147.6	129.4	124.3	124.3	122.8	119.1	119.9
60°	1553.9	1138.8	396.9	186.4	145.5	123.5	117.7	119.1	119.1	116.2	116.2
62.5°	1516.6	1071.5	334.8	176.9	142.5	119.1	112.6	116.2	117.7	114.8	114.8
65°	1401.9	912.9	269.0	163.0	135.2	114.0	106.7	114.0	118.4	116.2	115.5
67.5°	1181.9	722.9	222.2	147.6	127.2	107.4	100.9	110.4	116.2	116.2	115.5
70°	948.7	548.9	182.7	130.8	114.8	99.4	94.3	102.3	107.4	108.9	108.9
72.5°	653.4	335.5	148.4	112.6	100.9	89.9	85.5	90.6	93.6	96.5	95.7
74°	421.7	235.4	130.1	102.3	92.1	82.6	80.4	82.6	84.1	87.0	87.7
75°	282.1	192.2	121.3	95.0	87.0	77.5	76.0	78.2	79.7	81.9	81.9
77.5°	162.3	137.4	97.9	78.9	72.4	66.5	65.8	66.5	68.7	70.9	70.2
80°	112.6	104.5	77.5	61.4	57.0	54.1	54.8	55.5	59.2	59.9	59.2
82.5°	68.0	75.3	54.8	46.0	43.1	42.4	44.6	46.0	49.0	49.7	49.0
85°	27.0	35.8	27.0	25.6	28.5	31.4	35.1	37.3	38.7	38.7	38.7
87.5°	0.0	5.1	6.6	10.2	16.1	19.0	24.9	27.0	28.5	27.8	27.0
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)