

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: P401634

Luminaire Tested: **ENT-SA1E-730-U-SL4**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401634  
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: ENT-SA1E-730-U-SL4  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 3000K, 1050mA 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: 6074 lumens  
Efficiency: N/A  
Efficacy: 106.2 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): 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

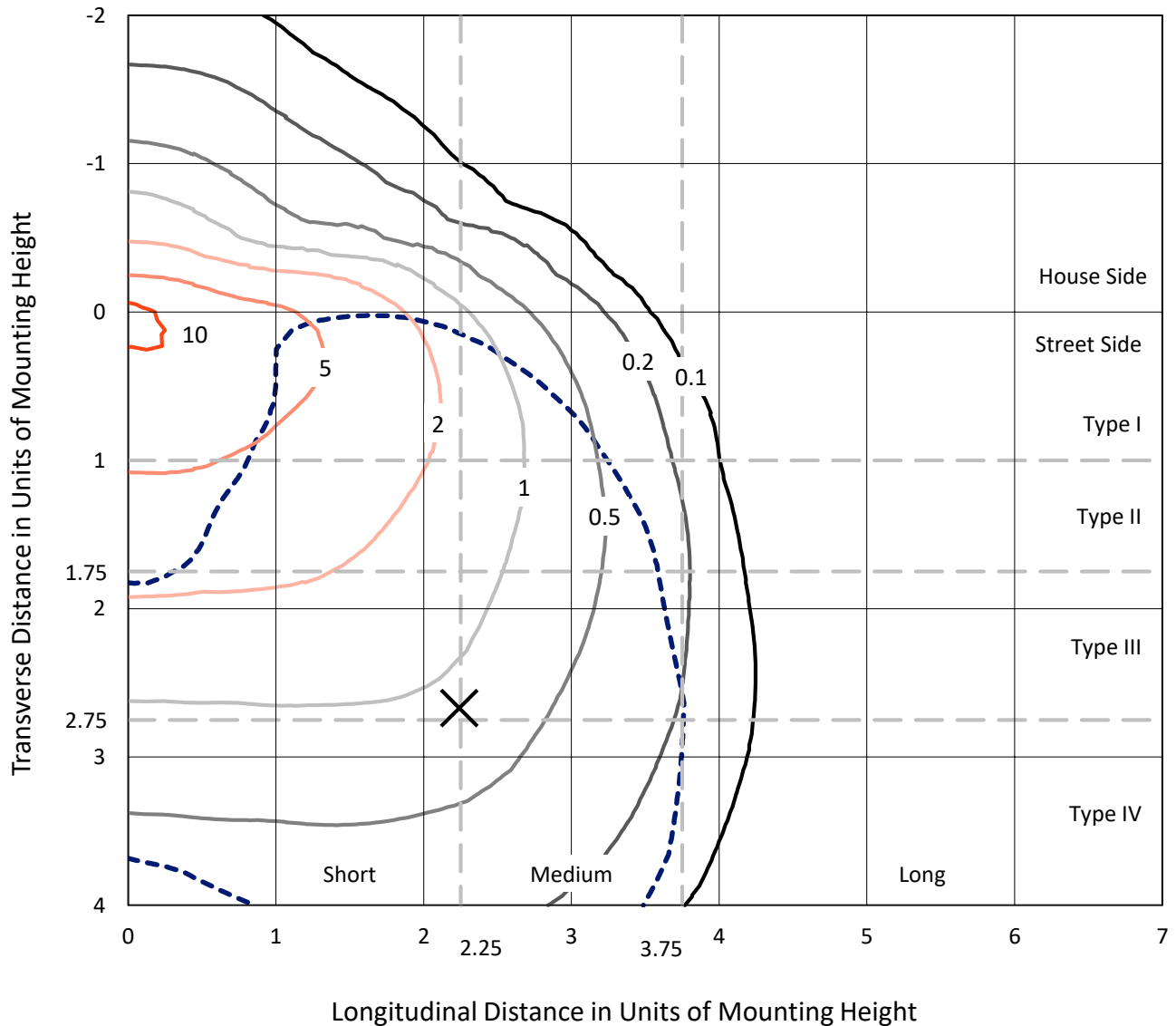


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

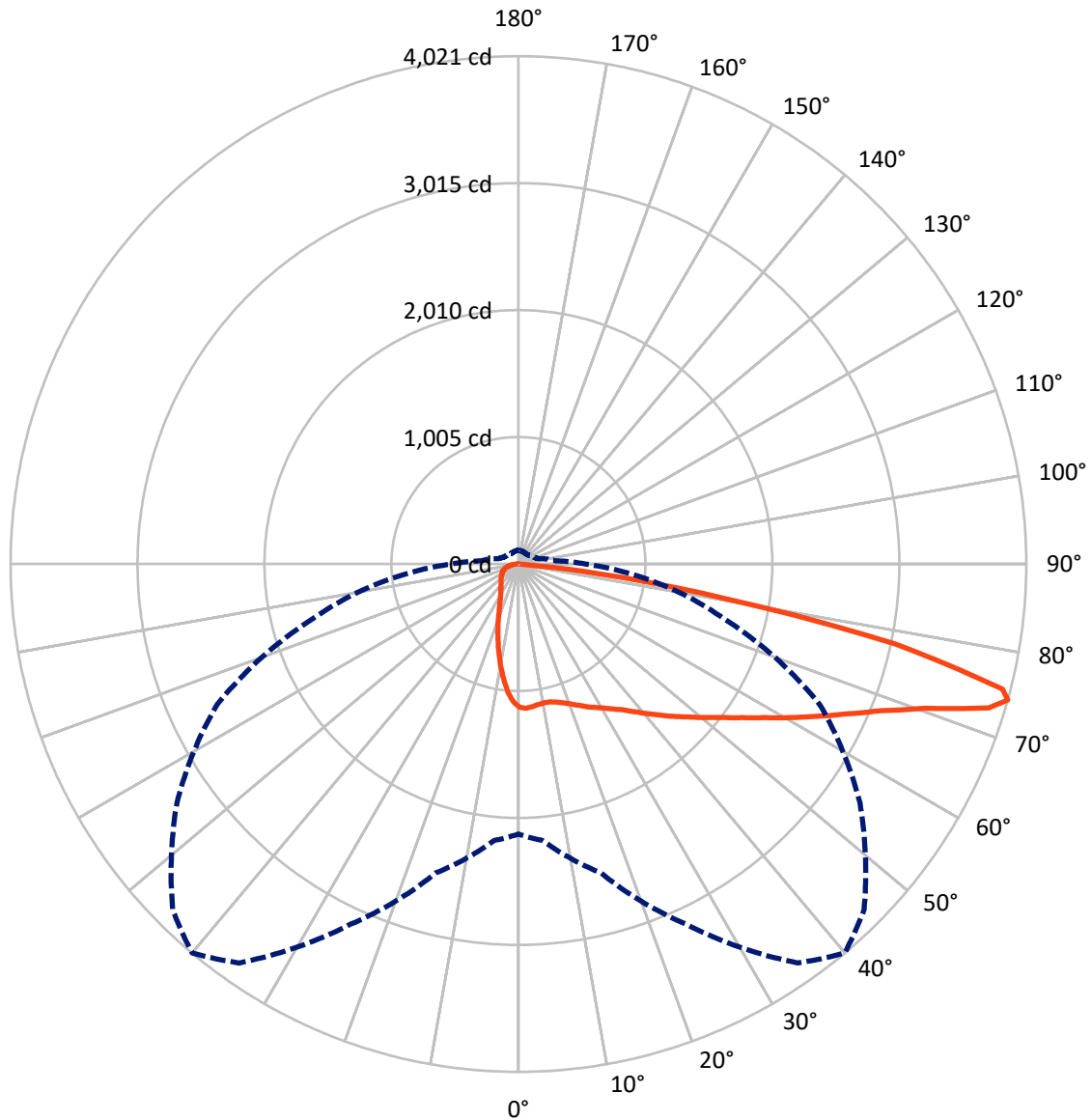


Based on 10 foot mounting height. Maximum calculated value = 11.3 fc  
 Type IV - Short - Non-Cutoff

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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
<b>House Side</b>	Lumens	947.1	0.0	947.1
	% Fixture	15.6	0.0	15.6
<b>Street Side</b>	Lumens	5126.9	0.0	5126.9
	% Fixture	84.4	0.0	84.4
<b>Total</b>	Lumens	6074.0	0.0	6074.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	100.1	1.6
10°-20°	257.8	4.2
20°-30°	395.3	6.5
30°-40°	571.0	9.4
40°-50°	821.5	13.5
50°-60°	1134.2	18.7
60°-70°	1430.0	23.5
70°-80°	1240.0	20.4
80°-90°	124.1	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°	6074.0	100.0
0°-180°	6074.0	100.0



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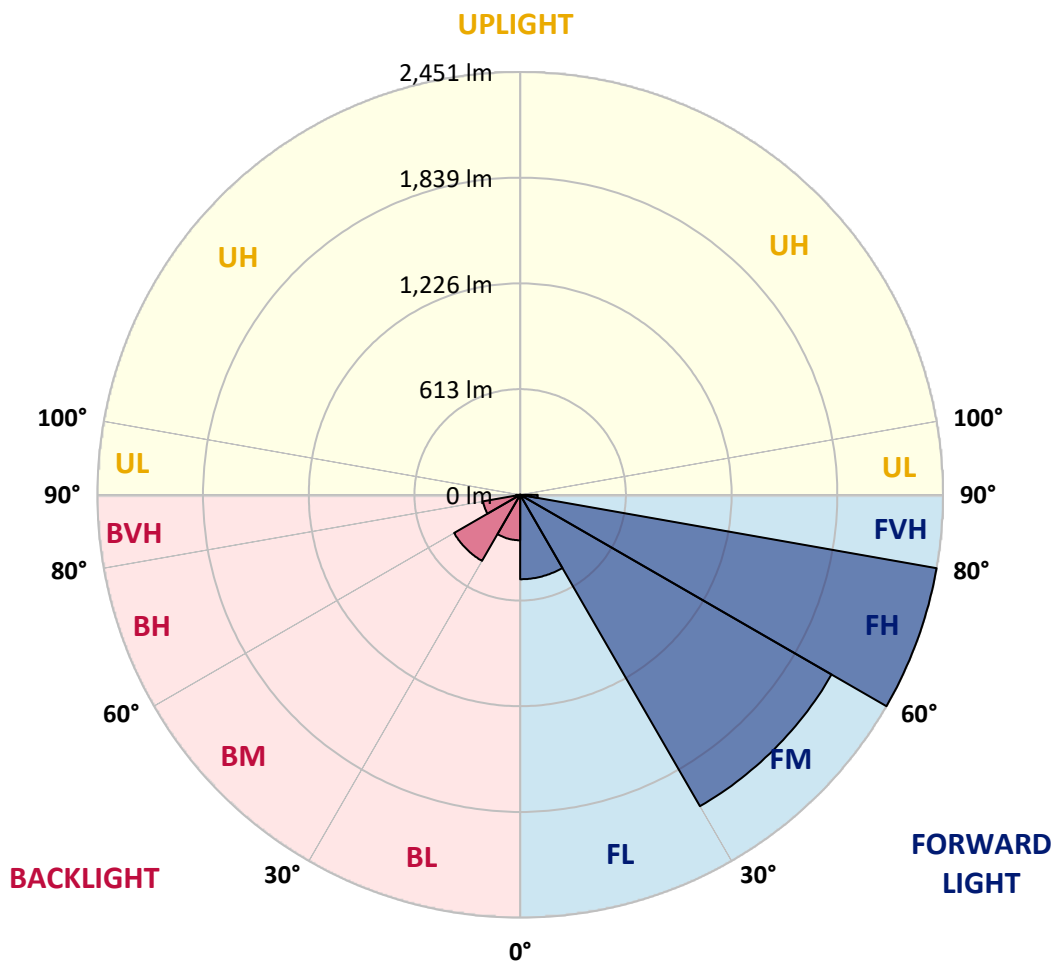
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	489.7	8.1			
FM (30°-60°)	2084.4	34.3			
FH (60°-80°)	2451.4	40.4			G2/5000
FVH (80°-90°)	101.5	1.7			G2/225
BL (0°-30°)	263.5	4.3	B1/500		
BM (30°-60°)	442.3	7.3	B1/1000		
BH (60°-80°)	218.6	3.6	B1/500		G1/500
BVH (80°-90°)	22.6	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°	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8
2.5°	1148.4	1147.5	1150.2	1148.4	1145.6	1143.8	1142.9	1137.4	1135.6	1130.1	1122.9
5°	1143.8	1143.8	1143.8	1142.0	1136.5	1134.7	1132.9	1124.7	1119.2	1110.1	1096.5
7.5°	1128.3	1131.1	1130.1	1129.2	1124.7	1122.9	1120.1	1110.1	1102.8	1089.2	1071.9
10°	1113.8	1113.8	1114.7	1118.3	1116.5	1117.4	1116.5	1105.6	1095.5	1078.2	1056.4
12.5°	1092.8	1096.5	1101.9	1111.9	1116.5	1120.1	1120.1	1111.9	1101.0	1080.1	1054.6
15°	1080.1	1084.6	1098.3	1116.5	1127.4	1133.8	1135.6	1125.6	1111.9	1091.0	1062.8
17.5°	1074.6	1080.1	1105.6	1131.1	1150.2	1155.6	1156.6	1145.6	1131.1	1105.6	1072.8
20°	1080.1	1086.4	1120.1	1154.7	1177.5	1182.1	1183.9	1168.4	1150.2	1125.6	1082.8
22.5°	1101.0	1110.1	1147.5	1184.8	1208.5	1214.8	1213.0	1191.2	1172.9	1146.5	1095.5
25°	1146.5	1152.0	1185.7	1225.8	1244.0	1251.3	1246.7	1222.1	1198.4	1172.0	1113.8
27.5°	1199.4	1206.6	1242.2	1272.2	1284.1	1285.9	1281.3	1255.8	1229.4	1207.6	1142.0
30°	1263.1	1269.5	1298.6	1321.4	1322.3	1323.2	1320.5	1291.3	1269.5	1252.2	1183.0
32.5°	1330.5	1331.4	1361.5	1372.4	1365.1	1367.8	1365.1	1333.2	1317.7	1312.3	1236.7
35°	1392.4	1393.3	1424.3	1427.9	1416.1	1417.0	1422.5	1385.1	1385.1	1397.9	1316.8
37.5°	1451.6	1454.3	1481.7	1478.0	1473.5	1481.7	1489.0	1457.1	1475.3	1511.7	1414.3
40°	1496.2	1502.6	1539.0	1537.2	1547.2	1555.4	1561.8	1545.4	1574.6	1645.6	1534.5
42.5°	1525.4	1538.1	1590.0	1602.8	1620.1	1634.7	1645.6	1644.7	1695.7	1794.0	1662.0
45°	1555.4	1568.2	1637.4	1668.4	1697.5	1720.3	1741.2	1752.1	1833.2	1950.7	1810.4
47.5°	1591.9	1602.8	1680.2	1741.2	1778.5	1809.5	1846.8	1870.5	1973.4	2110.0	1947.9
50°	1647.4	1654.7	1723.9	1818.6	1866.0	1908.8	1955.2	2003.5	2124.6	2273.0	2068.1
52.5°	1719.4	1723.9	1774.9	1896.9	1972.5	2018.1	2087.3	2151.0	2278.5	2420.6	2166.5
55°	1801.3	1797.7	1836.8	1990.7	2079.1	2147.4	2233.0	2297.6	2440.6	2549.0	2244.8
57.5°	1883.3	1880.5	1911.5	2080.9	2213.9	2294.0	2382.3	2450.6	2589.0	2669.2	2301.3
60°	1961.6	1951.6	1995.3	2186.5	2376.9	2468.8	2548.1	2610.9	2729.3	2755.7	2331.3
62.5°	2030.8	2030.8	2094.6	2316.8	2571.7	2654.6	2717.5	2759.3	2863.2	2819.5	2319.5
65°	2094.6	2102.7	2193.8	2462.5	2773.9	2858.6	2913.2	2929.6	2996.1	2822.2	2219.3
67.5°	2166.5	2179.2	2307.7	2632.8	3007.0	3097.2	3144.6	3139.1	3090.8	2780.3	2004.4
70°	2236.6	2257.6	2448.8	2852.2	3294.8	3416.9	3468.8	3361.3	3140.0	2548.1	1664.7
72.5°	2287.6	2323.1	2564.5	3071.7	3707.4	3895.0	3874.0	3422.3	2909.6	2100.0	1259.5
74°	2138.3	2197.5	2532.6	3147.3	3855.8	4020.6	3870.4	3301.2	2631.9	1691.1	892.5
75°	1964.3	2021.7	2371.4	3117.2	3884.0	3957.8	3682.8	3088.1	2360.5	1310.5	582.8
77.5°	1454.3	1499.0	1821.4	2457.9	3071.7	3049.9	2742.0	2092.7	1162.9	395.2	245.9
80°	642.0	675.7	898.8	1236.7	1663.8	1657.4	1543.6	961.7	375.2	206.7	150.3
82.5°	194.0	193.1	258.6	360.6	632.0	643.8	547.3	331.5	179.4	85.6	72.9
85°	0.9	0.9	0.9	0.9	2.7	23.7	20.0	63.7	32.8	15.5	26.4
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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°	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8	1133.8
2.5°	1118.3	1117.4	1114.7	1108.3	1103.7	1090.1	1094.6	1085.5	1084.6	1082.8	1081.9
5°	1090.1	1086.4	1075.5	1062.8	1048.2	1025.4	1018.1	1004.5	996.3	993.5	995.4
7.5°	1060.9	1052.7	1031.8	1004.5	975.3	941.6	917.0	897.9	884.3	879.7	873.3
10°	1042.7	1029.1	993.5	948.0	900.7	853.3	812.3	784.1	763.1	746.8	746.8
12.5°	1036.3	1018.1	966.2	899.7	831.4	764.1	704.9	667.5	632.0	614.7	612.0
15°	1040.0	1014.5	943.5	856.0	765.0	677.5	604.7	551.0	517.3	496.3	503.6
17.5°	1043.6	1011.8	919.8	809.6	700.3	599.2	514.5	453.5	412.5	401.6	397.1
20°	1048.2	1006.3	889.7	759.5	633.8	523.6	434.4	372.5	341.5	327.8	327.8
22.5°	1054.6	999.0	858.8	704.0	565.5	449.9	367.0	320.6	296.0	287.8	287.8
25°	1063.7	994.5	826.9	648.4	500.9	391.6	322.4	286.0	273.2	267.7	266.8
27.5°	1081.0	995.4	795.9	591.9	437.1	342.4	290.5	266.8	256.8	254.1	253.2
30°	1107.4	1004.5	763.1	531.8	380.7	305.1	268.6	252.3	245.9	244.1	244.1
32.5°	1143.8	1020.9	735.8	478.1	338.8	275.0	250.4	239.5	235.9	234.0	235.0
35°	1200.3	1049.1	703.0	428.9	299.6	254.1	235.9	227.7	224.9	224.9	225.8
37.5°	1274.0	1092.8	671.2	383.4	273.2	235.9	222.2	217.7	214.9	216.7	217.7
40°	1366.9	1144.7	641.1	342.4	251.3	221.3	210.4	206.7	205.8	207.6	209.5
42.5°	1467.1	1207.6	613.8	308.7	234.0	209.5	200.3	198.5	197.6	198.5	201.3
45°	1583.7	1279.5	591.0	283.2	221.3	199.4	191.2	189.4	188.5	190.3	192.2
47.5°	1691.1	1344.2	572.8	265.9	210.4	192.2	184.0	181.2	181.2	181.2	183.0
50°	1778.5	1395.2	561.9	254.1	201.3	184.0	176.7	173.9	173.0	172.1	173.0
52.5°	1854.1	1433.4	558.2	246.8	194.0	176.7	169.4	167.6	165.7	163.9	164.8
55°	1904.2	1452.5	551.0	240.4	187.6	168.5	162.1	160.3	158.5	155.7	155.7
57.5°	1933.4	1450.7	534.6	236.8	184.0	161.2	154.8	154.8	153.0	148.4	149.4
60°	1936.1	1418.8	494.5	232.2	181.2	153.9	146.6	148.4	148.4	144.8	144.8
62.5°	1889.7	1335.0	417.1	220.4	177.6	148.4	140.2	144.8	146.6	143.0	143.0
65°	1746.7	1137.4	335.1	203.1	168.5	142.1	133.0	142.1	147.5	144.8	143.9
67.5°	1472.6	900.7	276.8	184.0	158.5	133.9	125.7	137.5	144.8	144.8	143.9
70°	1182.1	683.9	227.7	163.0	143.0	123.9	117.5	127.5	133.9	135.7	135.7
72.5°	814.1	418.0	184.9	140.2	125.7	112.0	106.5	112.9	116.6	120.2	119.3
74°	525.5	293.2	162.1	127.5	114.7	102.9	100.2	102.9	104.7	108.4	109.3
75°	351.5	239.5	151.2	118.4	108.4	96.5	94.7	97.4	99.3	102.0	102.0
77.5°	202.2	171.2	122.0	98.4	90.2	82.9	82.0	82.9	85.6	88.3	87.4
80°	140.2	130.2	96.5	76.5	71.0	67.4	68.3	69.2	73.8	74.7	73.8
82.5°	84.7	93.8	68.3	57.4	53.7	52.8	55.6	57.4	61.0	61.9	61.0
85°	33.7	44.6	33.7	31.9	35.5	39.2	43.7	46.4	48.3	48.3	48.3
87.5°	0.0	6.4	8.2	12.7	20.0	23.7	31.0	33.7	35.5	34.6	33.7
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)