

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: P401526

Luminaire Tested: **ENT-SA1D-750-U-SL4**

Issue Date: 5/20/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P401526  
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-SA1D-750-U-SL4  
Description: ENTRI LED LUMINAIRE  
(1) 70 CRI, 5000K, 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: 5353 lumens  
Efficiency: N/A  
Efficacy: 124.2 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

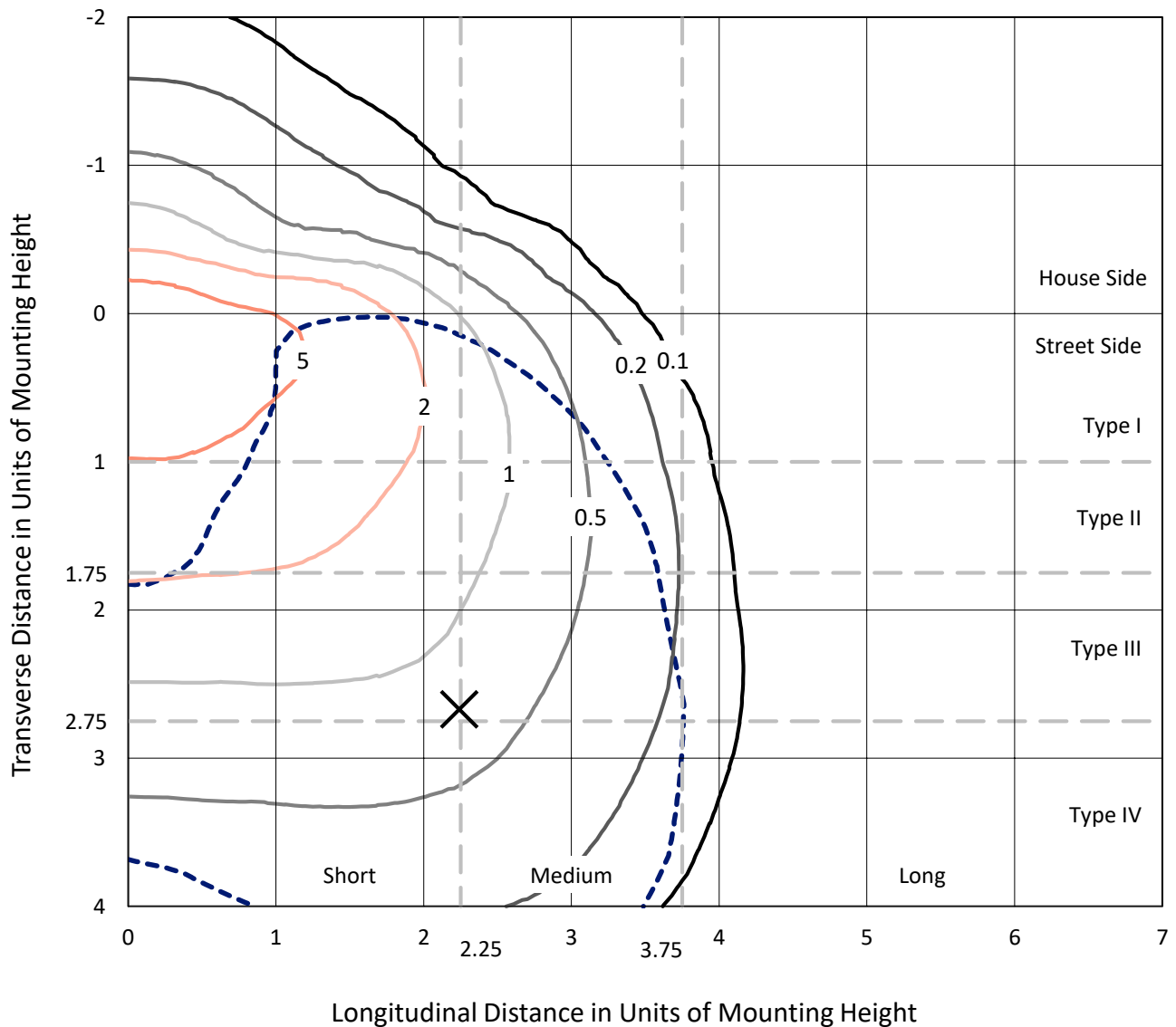
Input Watts (W): 43.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

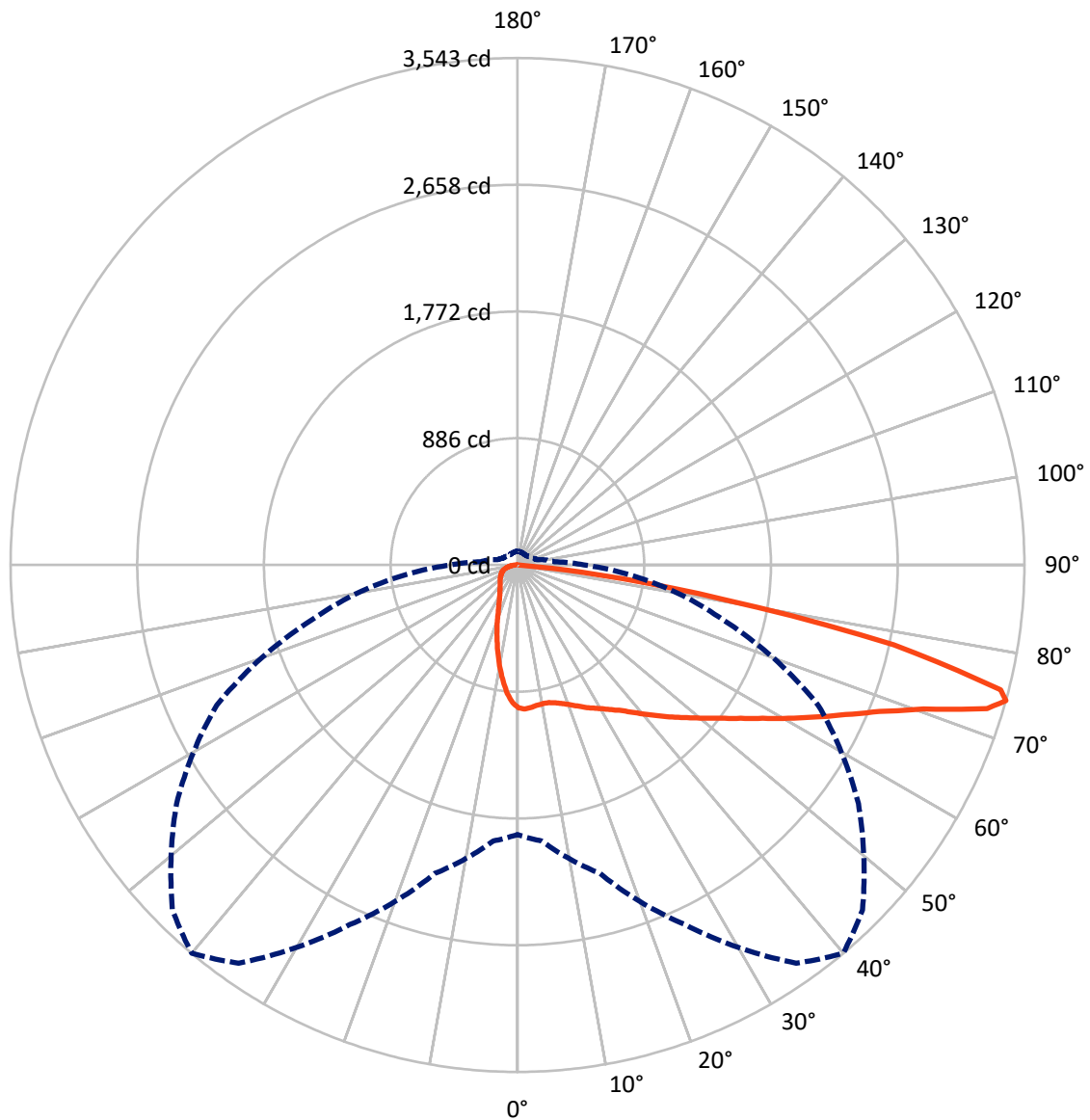


Based on 10 foot mounting height. Maximum calculated value = 10 fc  
 Type IV - Short - Non-Cutoff

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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	834.6	0.0	834.6
	% Fixture	15.6	0.0	15.6
<b>Street Side</b>	Lumens	4518.4	0.0	4518.4
	% Fixture	84.4	0.0	84.4
<b>Total</b>	Lumens	5353.0	0.0	5353.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	88.2	1.6
10°-20°	227.2	4.2
20°-30°	348.4	6.5
30°-40°	503.2	9.4
40°-50°	723.9	13.5
50°-60°	999.6	18.7
60°-70°	1260.3	23.5
70°-80°	1092.8	20.4
80°-90°	109.4	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°	5353.0	100.0
0°-180°	5353.0	100.0



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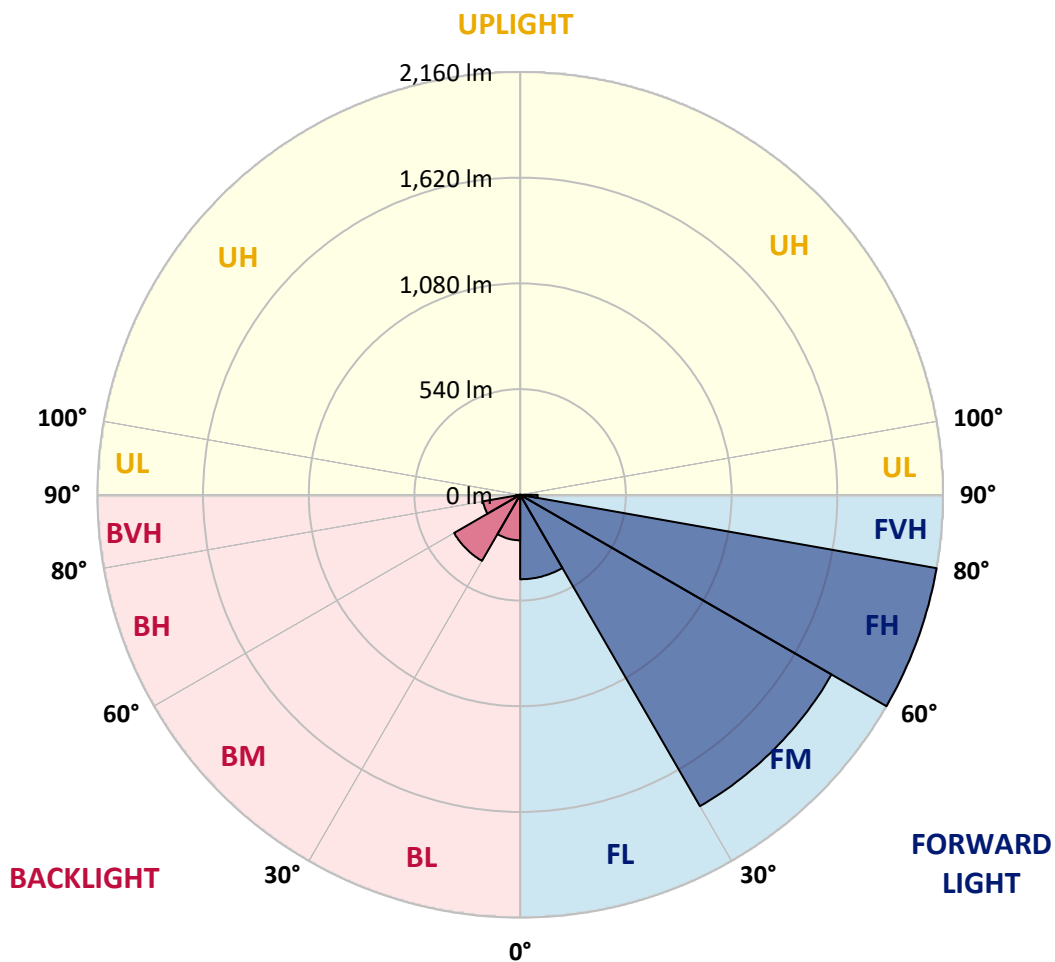
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	431.5	8.1			
FM	(30°-60°)	1836.9	34.3			
FH	(60°-80°)	2160.5	40.4			G2/5000
FVH	(80°-90°)	89.4	1.7			G1/100
BL	(0°-30°)	232.3	4.3	B1/500		
BM	(30°-60°)	389.8	7.3	B1/1000		
BH	(60°-80°)	192.6	3.6	B1/500		G1/500
BVH	(80°-90°)	19.9	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°	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2
2.5°	1012.0	1011.2	1013.7	1012.0	1009.6	1008.0	1007.2	1002.4	1000.8	996.0	989.6
5°	1008.0	1008.0	1008.0	1006.4	1001.6	1000.0	998.4	991.2	986.4	978.3	966.3
7.5°	994.4	996.8	996.0	995.2	991.2	989.6	987.2	978.3	971.9	959.9	944.6
10°	981.5	981.5	982.4	985.6	984.0	984.8	984.0	974.3	965.5	950.2	931.0
12.5°	963.1	966.3	971.1	979.9	984.0	987.2	987.2	979.9	970.3	951.9	929.4
15°	951.9	955.9	967.9	984.0	993.6	999.2	1000.8	992.0	979.9	961.5	936.6
17.5°	947.0	951.9	974.3	996.8	1013.7	1018.5	1019.3	1009.6	996.8	974.3	945.4
20°	951.9	957.5	987.2	1017.7	1037.7	1041.7	1043.3	1029.7	1013.7	992.0	954.3
22.5°	970.3	978.3	1011.2	1044.2	1065.0	1070.6	1069.0	1049.8	1033.7	1010.4	965.5
25°	1010.4	1015.3	1045.0	1080.3	1096.3	1102.7	1098.7	1077.1	1056.2	1032.9	981.5
27.5°	1057.0	1063.4	1094.7	1121.2	1131.6	1133.2	1129.2	1106.8	1083.5	1064.2	1006.4
30°	1113.2	1118.8	1144.5	1164.5	1165.3	1166.1	1163.7	1138.1	1118.8	1103.5	1042.5
32.5°	1172.6	1173.4	1199.9	1209.5	1203.1	1205.5	1203.1	1175.0	1161.3	1156.5	1089.9
35°	1227.1	1227.9	1255.2	1258.4	1248.0	1248.8	1253.6	1220.7	1220.7	1232.0	1160.5
37.5°	1279.3	1281.7	1305.8	1302.6	1298.6	1305.8	1312.2	1284.1	1300.2	1332.3	1246.4
40°	1318.6	1324.2	1356.4	1354.7	1363.6	1370.8	1376.4	1362.0	1387.7	1450.3	1352.3
42.5°	1344.3	1355.6	1401.3	1412.5	1427.8	1440.6	1450.3	1449.5	1494.4	1581.1	1464.7
45°	1370.8	1382.0	1443.0	1470.3	1496.0	1516.1	1534.5	1544.2	1615.6	1719.1	1595.5
47.5°	1402.9	1412.5	1480.8	1534.5	1567.4	1594.7	1627.6	1648.5	1739.2	1859.6	1716.7
50°	1451.9	1458.3	1519.3	1602.7	1644.5	1682.2	1723.1	1765.7	1872.4	2003.2	1822.6
52.5°	1515.3	1519.3	1564.2	1671.8	1738.4	1778.5	1839.5	1895.7	2008.0	2133.2	1909.3
55°	1587.5	1584.3	1618.8	1754.4	1832.3	1892.5	1967.9	2024.9	2150.9	2246.4	1978.3
57.5°	1659.7	1657.3	1684.6	1833.9	1951.1	2021.7	2099.5	2159.7	2281.7	2352.3	2028.1
60°	1728.7	1719.9	1758.4	1927.0	2094.7	2175.8	2245.6	2301.0	2405.3	2428.6	2054.6
62.5°	1789.7	1789.7	1845.9	2041.8	2266.5	2339.5	2394.9	2431.8	2523.3	2484.8	2044.2
65°	1845.9	1853.1	1933.4	2170.2	2444.6	2519.3	2567.4	2581.9	2640.5	2487.2	1955.9
67.5°	1909.3	1920.6	2033.7	2320.2	2650.1	2729.6	2771.3	2766.5	2723.9	2450.3	1766.5
70°	1971.1	1989.6	2158.1	2513.7	2903.7	3011.3	3057.0	2962.3	2767.3	2245.6	1467.1
72.5°	2016.1	2047.4	2260.1	2707.1	3267.3	3432.6	3414.2	3016.1	2564.2	1850.7	1110.0
74°	1884.4	1936.6	2232.0	2773.7	3398.1	3543.4	3410.9	2909.3	2319.4	1490.4	786.5
75°	1731.2	1781.7	2089.9	2747.2	3423.0	3488.0	3245.6	2721.5	2080.3	1154.9	513.6
77.5°	1281.7	1321.0	1605.2	2166.2	2707.1	2687.8	2416.6	1844.3	1024.9	348.3	216.7
80°	565.8	595.5	792.1	1089.9	1466.3	1460.7	1360.4	847.5	330.7	182.2	132.4
82.5°	170.9	170.1	227.9	317.8	557.0	567.4	482.3	292.1	158.1	75.4	64.2
85°	0.8	0.8	0.8	0.8	2.4	20.9	17.7	56.2	28.9	13.6	23.3
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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°	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2	999.2
2.5°	985.6	984.8	982.4	976.7	972.7	960.7	964.7	956.7	955.9	954.3	953.5
5°	960.7	957.5	947.8	936.6	923.8	903.7	897.3	885.2	878.0	875.6	877.2
7.5°	935.0	927.8	909.3	885.2	859.6	829.9	808.2	791.3	779.3	775.3	769.7
10°	918.9	906.9	875.6	835.5	793.7	752.0	715.9	691.0	672.6	658.1	658.1
12.5°	913.3	897.3	851.5	792.9	732.8	673.4	621.2	588.3	557.0	541.7	539.3
15°	916.5	894.1	831.5	754.4	674.2	597.1	532.9	485.6	455.9	437.4	443.8
17.5°	919.8	891.7	810.6	713.5	617.2	528.1	453.5	399.7	363.6	353.9	349.9
20°	923.8	886.8	784.1	669.3	558.6	461.5	382.8	328.3	301.0	288.9	288.9
22.5°	929.4	880.4	756.8	620.4	498.4	396.5	323.4	282.5	260.8	253.6	253.6
25°	937.4	876.4	728.7	571.4	441.4	345.1	284.1	252.0	240.8	236.0	235.2
27.5°	952.7	877.2	701.5	521.7	385.2	301.8	256.0	235.2	226.3	223.9	223.1
30°	975.9	885.2	672.6	468.7	335.5	268.9	236.8	222.3	216.7	215.1	215.1
32.5°	1008.0	899.7	648.5	421.4	298.6	242.4	220.7	211.1	207.9	206.3	207.1
35°	1057.8	924.6	619.6	378.0	264.0	223.9	207.9	200.6	198.2	198.2	199.0
37.5°	1122.8	963.1	591.5	337.9	240.8	207.9	195.8	191.8	189.4	191.0	191.8
40°	1204.7	1008.8	565.0	301.8	221.5	195.0	185.4	182.2	181.4	183.0	184.6
42.5°	1292.9	1064.2	540.9	272.1	206.3	184.6	176.6	175.0	174.2	175.0	177.4
45°	1395.7	1127.6	520.9	249.6	195.0	175.8	168.5	166.9	166.1	167.7	169.3
47.5°	1490.4	1184.6	504.8	234.4	185.4	169.3	162.1	159.7	159.7	159.7	161.3
50°	1567.4	1229.5	495.2	223.9	177.4	162.1	155.7	153.3	152.5	151.7	152.5
52.5°	1634.0	1263.3	492.0	217.5	170.9	155.7	149.3	147.7	146.1	144.5	145.3
55°	1678.2	1280.1	485.6	211.9	165.3	148.5	142.9	141.3	139.6	137.2	137.2
57.5°	1703.9	1278.5	471.1	208.7	162.1	142.1	136.4	136.4	134.8	130.8	131.6
60°	1706.3	1250.4	435.8	204.7	159.7	135.6	129.2	130.8	130.8	127.6	127.6
62.5°	1665.3	1176.6	367.6	194.2	156.5	130.8	123.6	127.6	129.2	126.0	126.0
65°	1539.3	1002.4	295.3	179.0	148.5	125.2	117.2	125.2	130.0	127.6	126.8
67.5°	1297.8	793.7	244.0	162.1	139.6	118.0	110.8	121.2	127.6	127.6	126.8
70°	1041.7	602.7	200.6	143.7	126.0	109.2	103.5	112.4	118.0	119.6	119.6
72.5°	717.5	368.4	162.9	123.6	110.8	98.7	93.9	99.5	102.7	105.9	105.1
74°	463.1	258.4	142.9	112.4	101.1	90.7	88.3	90.7	92.3	95.5	96.3
75°	309.8	211.1	133.2	104.3	95.5	85.1	83.5	85.9	87.5	89.9	89.9
77.5°	178.2	150.9	107.5	86.7	79.5	73.0	72.2	73.0	75.4	77.8	77.0
80°	123.6	114.8	85.1	67.4	62.6	59.4	60.2	61.0	65.0	65.8	65.0
82.5°	74.6	82.7	60.2	50.6	47.4	46.5	49.0	50.6	53.8	54.6	53.8
85°	29.7	39.3	29.7	28.1	31.3	34.5	38.5	40.9	42.5	42.5	42.5
87.5°	0.0	5.6	7.2	11.2	17.7	20.9	27.3	29.7	31.3	30.5	29.7
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)