

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: P675207

Luminaire Tested: **CCW-SA-2C-850-U-T4FT**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675207
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2C-850-U-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
T4FT distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7884.8 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

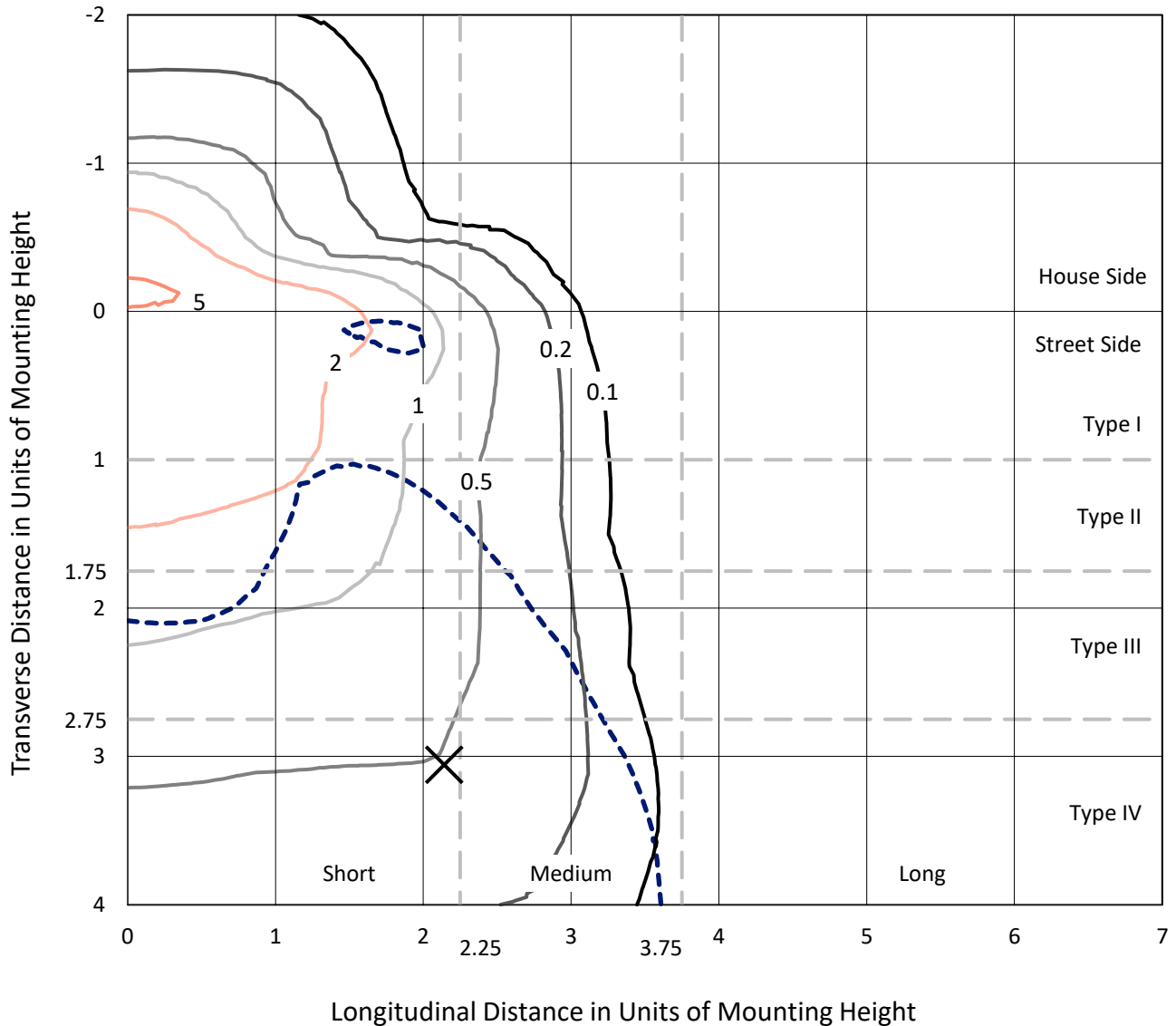
Input Watts (W): 62.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

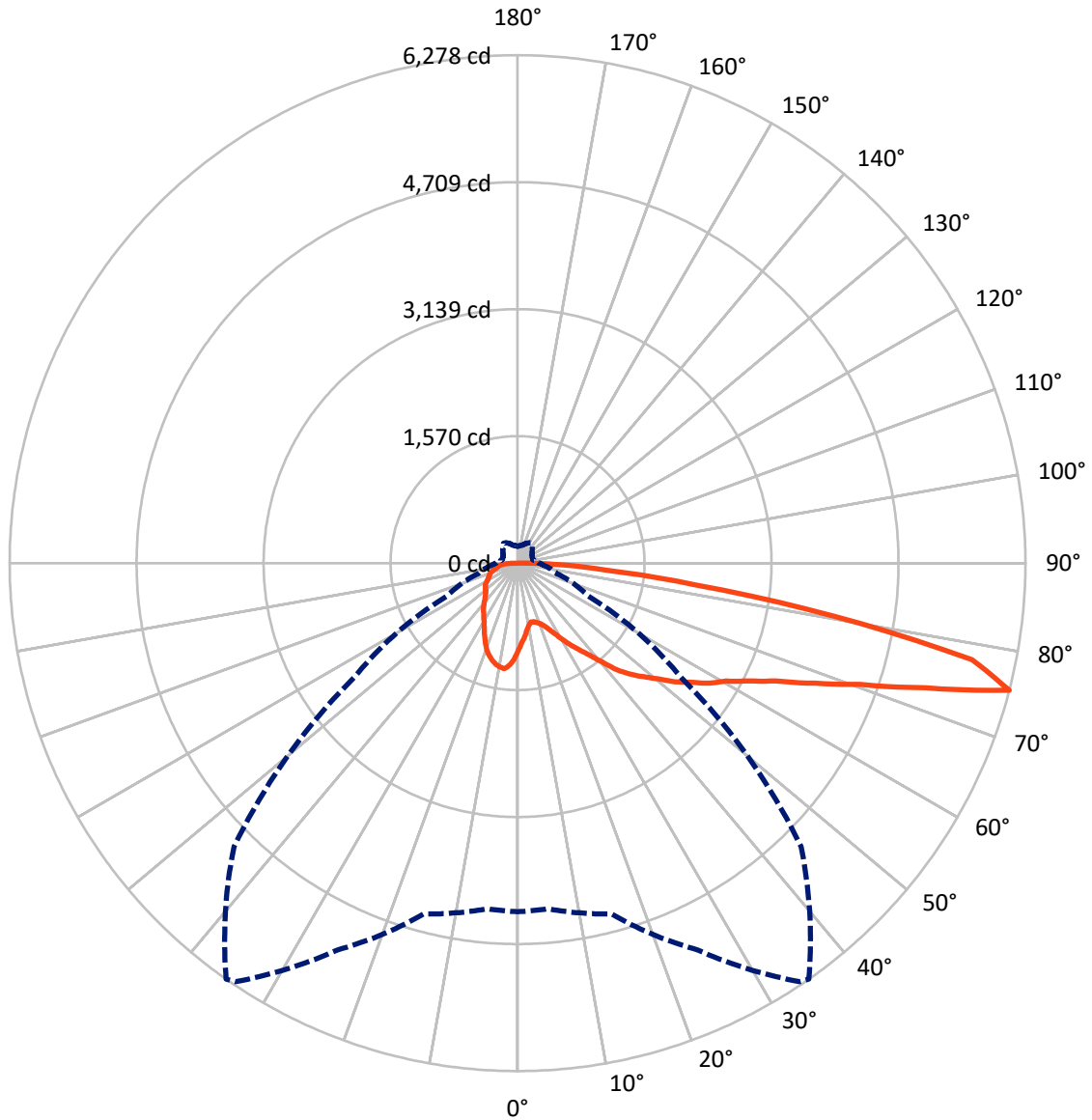
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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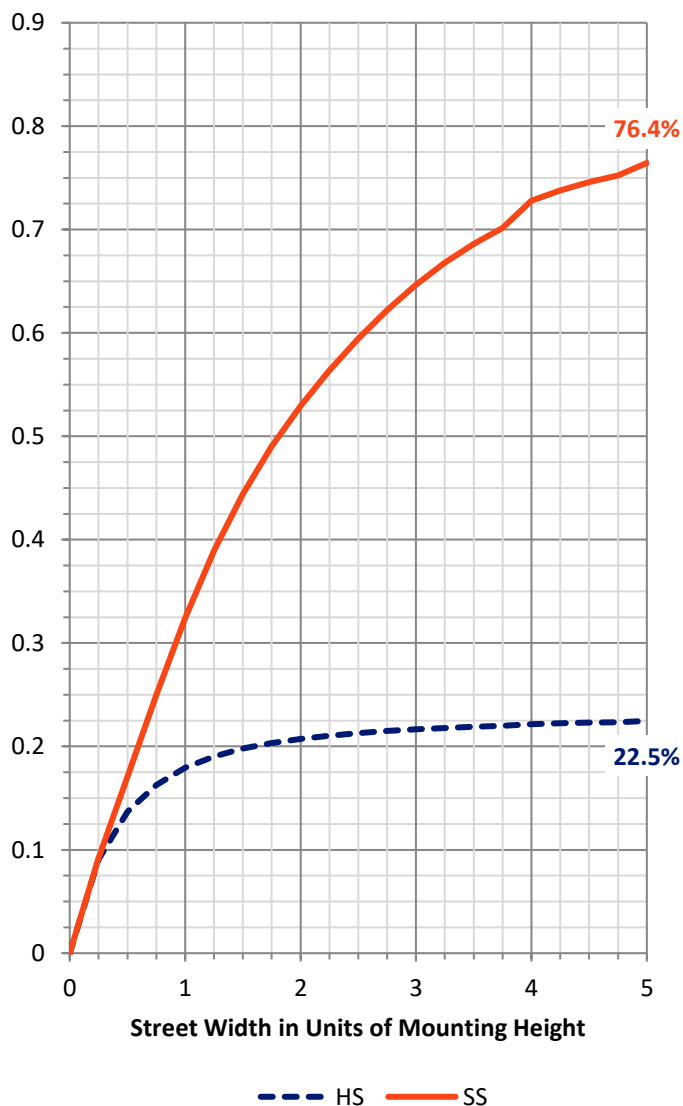
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1812.1	0.0	1812.1
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	6072.6	0.0	6072.6
	% Fixture	77.0	0.0	77.0
Total	Lumens	7884.8	0.0	7884.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.9	1.3
10°-20°	298.7	3.8
20°-30°	495.7	6.3
30°-40°	734.8	9.3
40°-50°	1059.5	13.4
50°-60°	1457.0	18.5
60°-70°	1799.7	22.8
70°-80°	1646.5	20.9
80°-90°	289.9	3.7
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°	7884.8	100.0
0°-180°	7884.8	100.0



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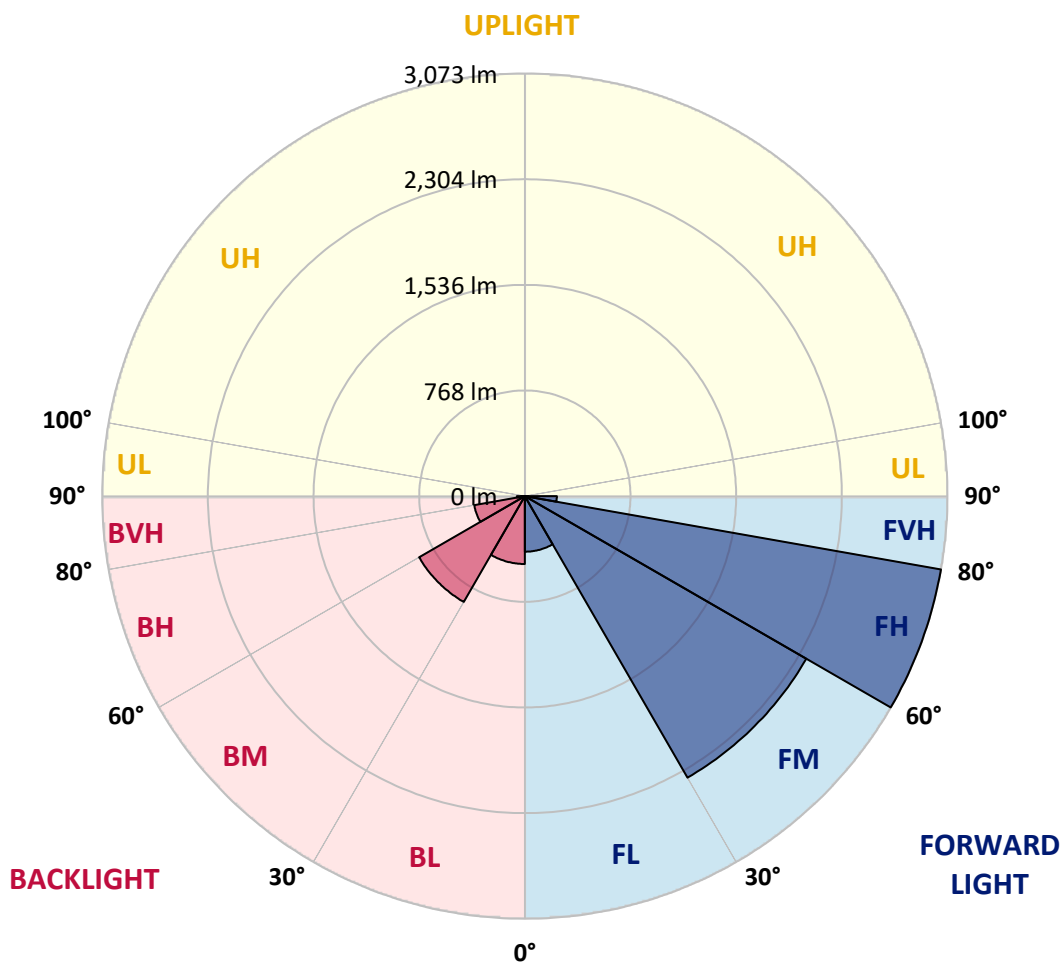
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	404.1	5.1			
FM (30°-60°)	2363.4	30.0			
FH (60°-80°)	3072.5	39.0			G2/5000
FVH (80°-90°)	232.6	3.0			G3/500
BL (0°-30°)	493.2	6.3	B1/500		
BM (30°-60°)	888.0	11.3	B1/1000		
BH (60°-80°)	373.7	4.7	B1/500		G1/500
BVH (80°-90°)	57.2	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3
2.5°	978.6	969.9	978.6	984.4	984.4	984.4	993.1	1019.3	1036.7	1048.3	1068.6
5°	877.0	879.9	885.7	900.2	908.9	914.7	929.3	961.2	987.3	1025.1	1068.6
7.5°	787.0	792.8	801.5	816.0	836.3	833.4	865.4	908.9	958.3	1007.7	1071.5
10°	740.5	752.1	755.0	757.9	778.3	778.3	821.8	871.2	932.2	996.0	1071.5
12.5°	749.2	749.2	740.5	737.6	749.2	746.3	784.1	842.1	908.9	998.9	1083.2
15°	775.3	775.3	757.9	740.5	757.9	752.1	784.1	830.5	908.9	1001.9	1106.4
17.5°	810.2	813.1	792.8	763.7	769.5	772.4	795.7	839.2	908.9	1007.7	1138.3
20°	879.9	865.4	833.4	787.0	807.3	798.6	833.4	871.2	926.4	1030.9	1184.8
22.5°	940.9	940.9	879.9	839.2	842.1	842.1	874.1	906.0	952.5	1062.8	1219.6
25°	1039.6	1033.8	958.3	897.3	903.1	906.0	923.4	961.2	996.0	1080.3	1263.2
27.5°	1164.5	1150.0	1074.5	1004.8	981.5	990.2	998.9	1028.0	1036.7	1109.3	1315.5
30°	1298.1	1277.7	1213.8	1103.5	1091.9	1094.8	1080.3	1097.7	1086.1	1155.8	1367.7
32.5°	1382.3	1382.3	1321.3	1240.0	1208.0	1208.0	1158.7	1170.3	1170.3	1199.3	1460.7
35°	1454.9	1449.1	1408.4	1347.4	1327.1	1315.5	1266.1	1283.5	1254.5	1283.5	1591.3
37.5°	1565.2	1547.8	1530.4	1489.7	1449.1	1440.3	1414.2	1425.8	1385.2	1370.7	1739.4
40°	1693.0	1684.3	1666.9	1649.4	1608.8	1605.9	1576.8	1588.4	1544.9	1489.7	1887.5
42.5°	1881.7	1855.6	1800.4	1785.9	1794.6	1806.2	1794.6	1774.3	1695.9	1626.2	2047.3
45°	2070.5	2029.8	1925.3	1902.1	1968.9	1960.1	2009.5	2000.8	1873.0	1762.7	2215.7
47.5°	2192.5	2157.6	2073.4	2058.9	2087.9	2099.5	2247.6	2221.5	2018.2	1887.5	2378.3
50°	2279.6	2282.5	2172.1	2209.9	2247.6	2247.6	2433.5	2430.6	2195.4	2041.5	2590.3
52.5°	2407.4	2366.7	2320.2	2355.1	2407.4	2436.4	2665.8	2601.9	2305.7	2172.1	2828.4
55°	2474.1	2456.7	2416.1	2477.0	2587.4	2601.9	2845.8	2796.5	2430.6	2326.0	3072.3
57.5°	2500.3	2514.8	2581.6	2607.7	2761.6	2799.4	3008.5	2938.8	2546.7	2517.7	3261.1
60°	2616.4	2596.1	2686.1	2790.7	2938.8	2959.1	3211.7	3060.7	2660.0	2642.6	3322.1
62.5°	2851.7	2799.4	2848.7	2973.6	3179.8	3205.9	3426.6	3223.4	2709.4	2726.8	3319.2
65°	3194.3	3156.6	3084.0	3182.7	3473.1	3510.8	3679.3	3362.7	2694.8	2697.7	3084.0
67.5°	3598.0	3537.0	3461.5	3522.5	3876.7	3963.9	3987.1	3423.7	2593.2	2535.1	2509.0
70°	3952.2	3911.6	3862.2	3966.8	4460.4	4492.4	4370.4	3386.0	2311.5	2035.6	1672.7
72.5°	4283.3	4263.0	4292.0	4684.0	5250.3	5270.6	4730.5	3147.9	1826.6	1234.2	778.3
75°	4309.4	4289.1	4489.5	5276.4	6240.5	6278.3	4954.1	2468.3	964.1	502.4	328.1
77.5°	2918.4	2979.4	3354.0	4620.1	5732.3	5741.1	4051.0	1147.0	397.8	296.2	229.4
80°	717.3	795.7	1263.2	2389.9	3865.1	3960.9	2218.6	386.2	261.4	226.5	171.3
82.5°	261.4	284.6	514.0	1080.3	2172.1	2209.9	775.3	209.1	188.8	174.2	124.9
85°	124.9	127.8	243.9	531.4	1097.7	1086.1	278.8	124.9	136.5	119.1	75.5
87.5°	52.3	52.3	107.4	246.8	485.0	470.4	90.0	58.1	78.4	69.7	37.8
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°	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3	1080.3
2.5°	1083.2	1089.0	1112.2	1129.6	1147.0	1161.6	1184.8	1184.8	1199.3	1199.3	1199.3
5°	1080.3	1112.2	1150.0	1190.6	1216.7	1242.9	1266.1	1269.0	1277.7	1289.3	1292.2
7.5°	1091.9	1123.8	1184.8	1242.9	1274.8	1286.4	1315.5	1306.8	1306.8	1306.8	1315.5
10°	1115.1	1150.0	1234.2	1286.4	1309.7	1312.6	1303.9	1298.1	1280.6	1274.8	1266.1
12.5°	1132.5	1193.5	1277.7	1318.4	1309.7	1301.0	1280.6	1251.6	1231.3	1225.5	1225.5
15°	1176.1	1237.1	1315.5	1330.0	1315.5	1269.0	1242.9	1210.9	1193.5	1167.4	1179.0
17.5°	1213.8	1283.5	1353.2	1335.8	1306.8	1234.2	1196.4	1150.0	1126.7	1097.7	1097.7
20°	1263.2	1327.1	1388.1	1341.6	1277.7	1199.3	1138.3	1080.3	1048.3	1019.3	1025.1
22.5°	1318.4	1376.5	1408.4	1318.4	1234.2	1144.1	1059.9	1004.8	964.1	946.7	952.5
25°	1361.9	1425.8	1420.0	1280.6	1181.9	1074.5	981.5	929.3	920.5	903.1	903.1
27.5°	1417.1	1483.9	1411.3	1234.2	1094.8	964.1	906.0	885.7	885.7	877.0	882.8
30°	1489.7	1536.2	1391.0	1167.4	984.4	865.4	836.3	847.9	868.3	859.6	862.5
32.5°	1608.8	1603.0	1373.6	1091.9	868.3	769.5	789.9	813.1	830.5	839.2	845.0
35°	1724.9	1687.2	1353.2	990.2	760.8	723.1	740.5	766.6	798.6	807.3	810.2
37.5°	1841.1	1774.3	1318.4	865.4	694.0	682.4	699.8	714.4	740.5	746.3	752.1
40°	1963.1	1832.4	1257.4	743.4	638.9	638.9	650.5	653.4	667.9	676.6	682.4
42.5°	2070.5	1887.5	1147.0	630.2	580.8	601.1	604.0	598.2	586.6	592.4	595.3
45°	2201.2	1948.5	1019.3	548.8	537.2	563.4	569.2	545.9	525.6	514.0	508.2
47.5°	2328.9	2012.4	908.9	482.1	496.6	537.2	537.2	511.1	476.2	447.2	435.6
50°	2445.1	2076.3	818.9	441.4	455.9	516.9	522.7	473.3	435.6	400.7	394.9
52.5°	2639.7	2183.7	726.0	409.5	432.7	502.4	499.5	455.9	406.5	368.8	365.9
55°	2811.0	2291.2	604.0	377.5	409.5	482.1	490.8	438.5	371.7	336.9	331.0
57.5°	2935.9	2317.3	482.1	345.6	386.2	458.8	470.4	403.6	348.5	319.4	316.5
60°	2959.1	2215.7	392.0	319.4	354.3	426.9	435.6	383.3	331.0	307.8	302.0
62.5°	2851.7	2021.1	334.0	296.2	328.1	394.9	412.4	360.1	313.6	293.3	290.4
65°	2607.7	1736.5	293.3	275.9	310.7	371.7	392.0	342.7	299.1	281.7	278.8
67.5°	2064.7	1332.9	261.4	261.4	287.5	348.5	377.5	331.0	284.6	273.0	270.1
70°	1350.3	801.5	238.1	241.0	270.1	328.1	360.1	316.5	267.2	264.3	258.4
72.5°	580.8	368.8	212.0	220.7	243.9	293.3	334.0	296.2	246.8	238.1	229.4
75°	267.2	223.6	191.7	197.5	217.8	258.4	302.0	273.0	229.4	214.9	206.2
77.5°	188.8	162.6	159.7	171.3	185.9	223.6	267.2	255.5	212.0	200.4	194.6
80°	139.4	124.9	133.6	145.2	153.9	206.2	252.6	235.2	194.6	177.1	168.4
82.5°	98.7	92.9	104.5	116.2	124.9	180.0	232.3	206.2	162.6	148.1	133.6
85°	58.1	61.0	72.6	78.4	87.1	133.6	194.6	165.5	124.9	95.8	92.9
87.5°	26.1	26.1	34.8	37.8	43.6	78.4	130.7	104.5	78.4	61.0	58.1
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)