

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: P674914

Luminaire Tested: **CCW-SA-1D-850-U-T2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P674914
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-850-U-T2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T2 distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4854.2 lumens
Efficiency: N/A
Efficacy: 110.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G1

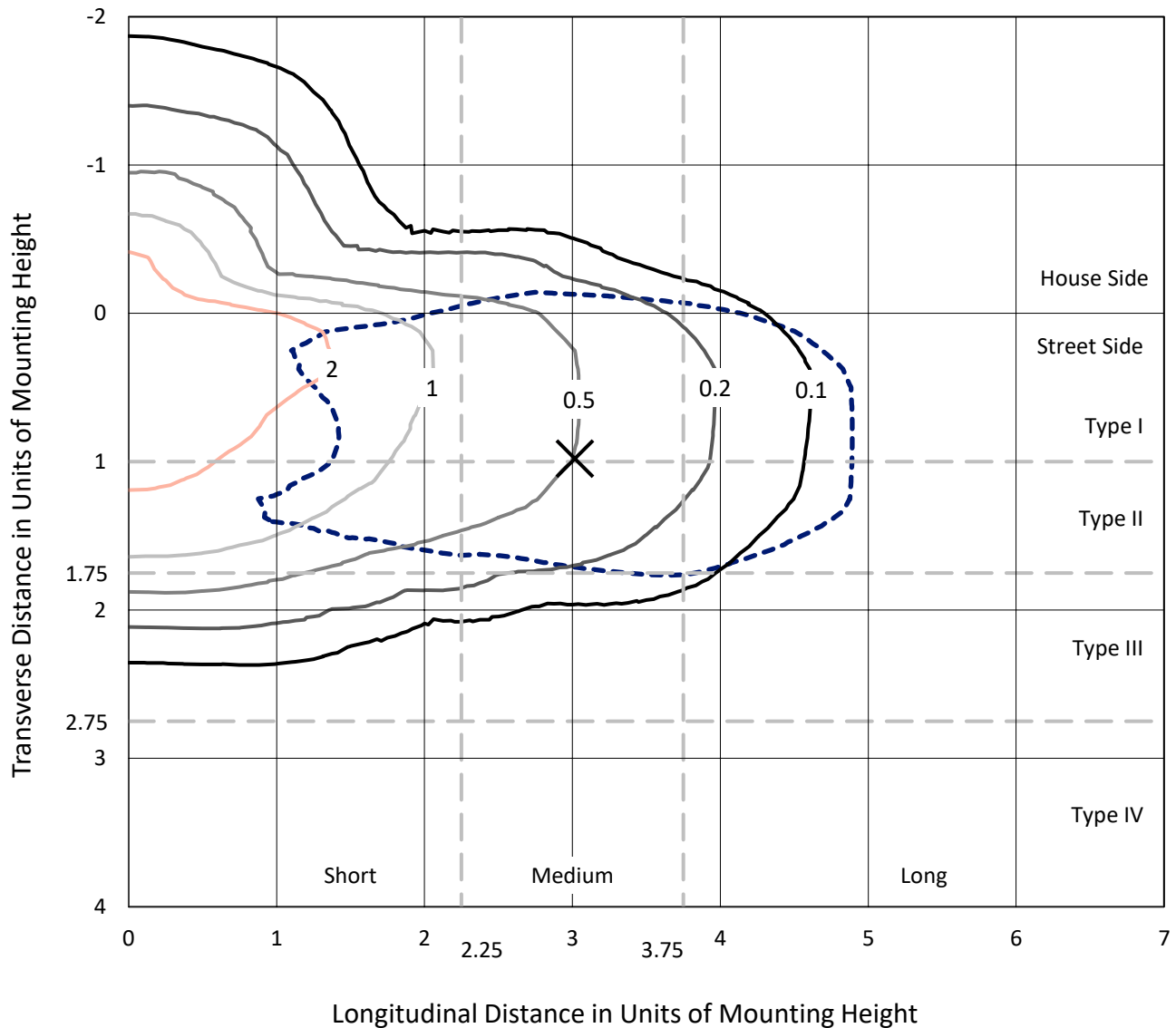
Input Watts (W): 44
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

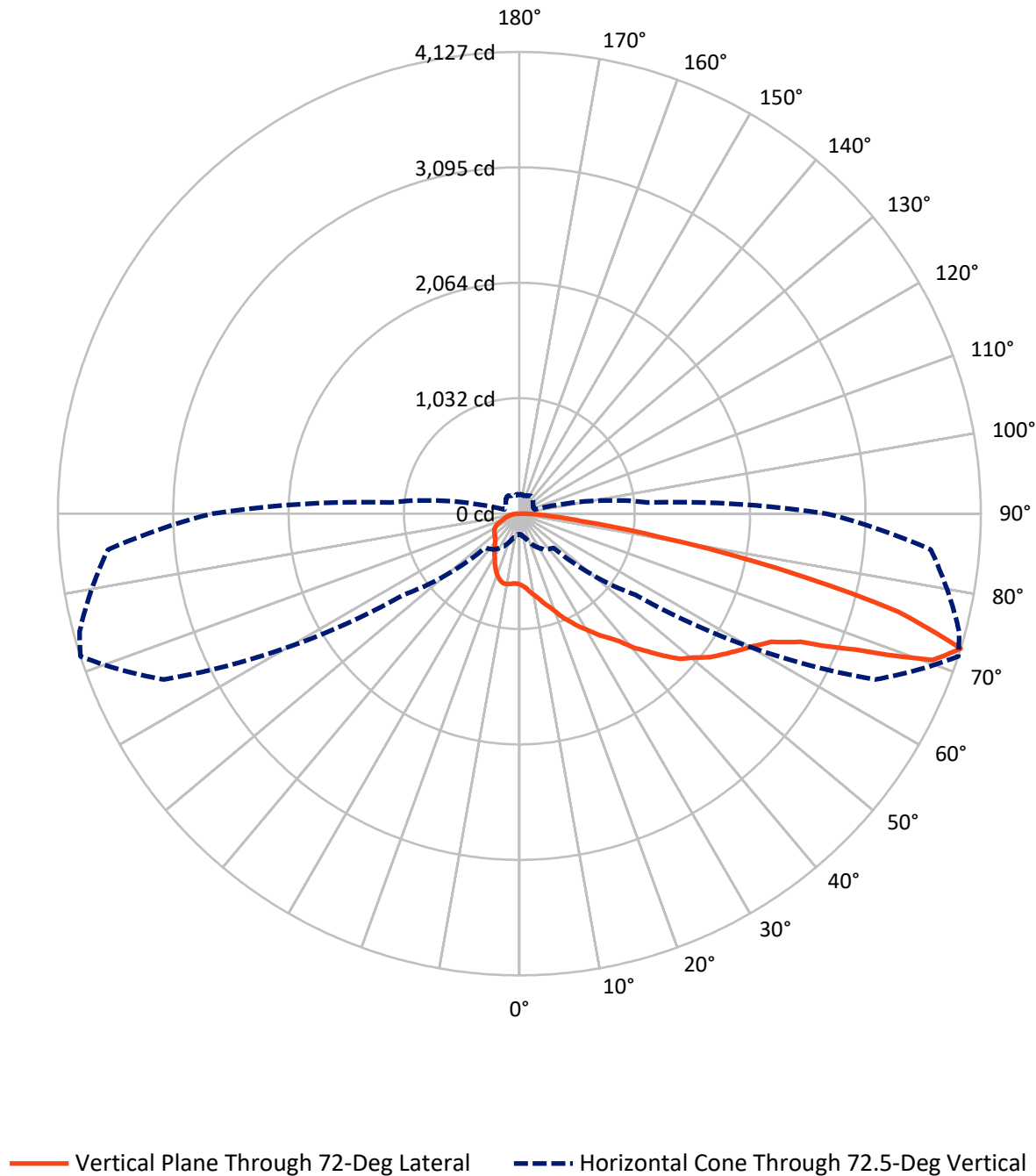
× Max cd
- - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc
Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1021.6	0.0	1021.6
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	3832.7	0.0	3832.7
	% Fixture	79.0	0.0	79.0
Total	Lumens	4854.2	0.0	4854.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.7	1.3
10°-20°	194.8	4.0
20°-30°	337.1	6.9
30°-40°	497.9	10.3
40°-50°	740.4	15.3
50°-60°	1015.1	20.9
60°-70°	1101.1	22.7
70°-80°	776.3	16.0
80°-90°	129.0	2.7
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°	4854.2	100.0
0°-180°	4854.2	100.0

Coefficient of Utilization



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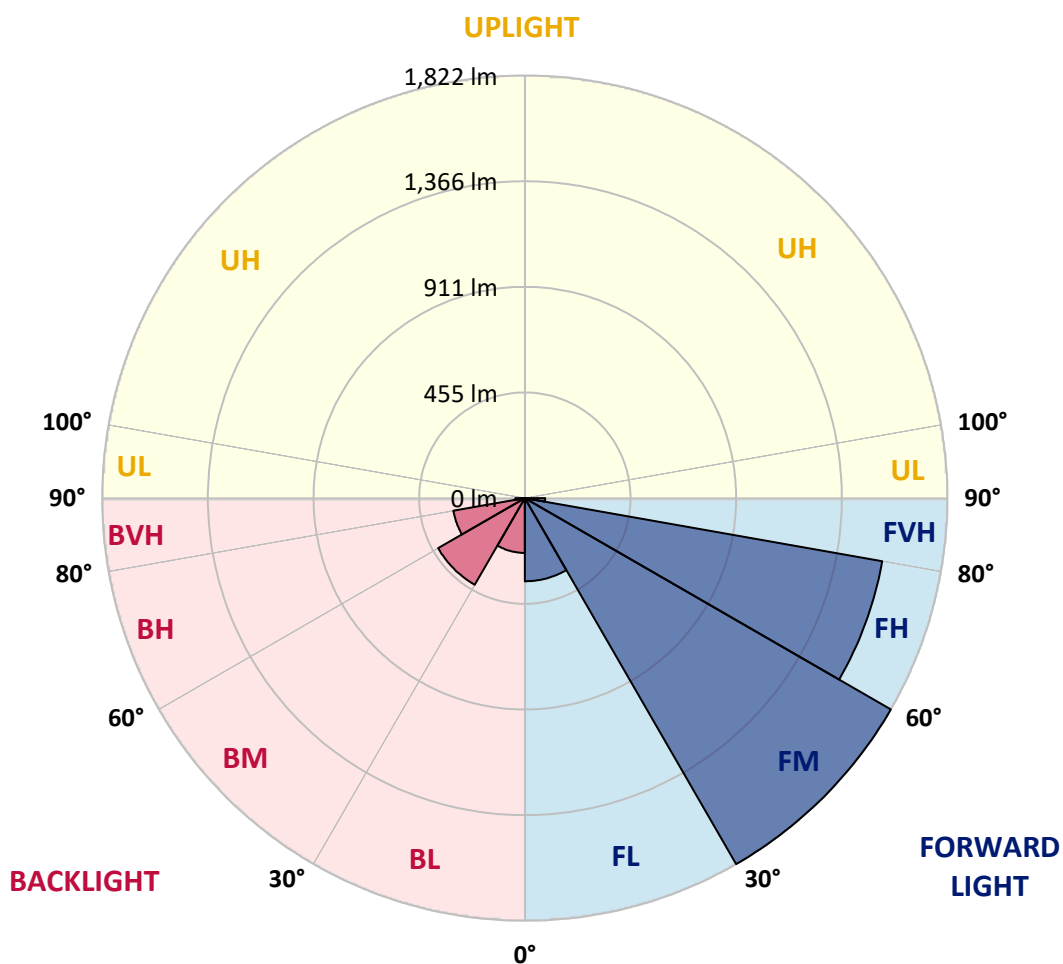
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	358.4	7.4			
FM	(30°-60°)	1821.9	37.5			
FH	(60°-80°)	1564.4	32.2			G1/1800
FVH	(80°-90°)	87.9	1.8			G1/100
BL	(0°-30°)	236.1	4.9	B1/500		
BM	(30°-60°)	431.5	8.9	B1/1000		
BH	(60°-80°)	312.9	6.4	B1/500		G1/500
BVH	(80°-90°)	41.0	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1
2.5°	684.3	684.3	678.9	677.1	677.1	662.8	664.6	655.6	648.4	648.4	641.3
5°	720.1	716.5	716.5	716.5	707.5	702.2	700.4	684.3	671.7	673.5	652.0
7.5°	729.0	730.8	732.6	741.6	736.2	739.8	736.2	718.3	709.3	700.4	680.7
10°	734.4	738.0	738.0	750.5	750.5	759.5	764.9	757.7	741.6	732.6	700.4
12.5°	746.9	741.6	748.7	757.7	766.7	782.8	798.9	791.7	781.0	770.2	734.4
15°	746.9	748.7	754.1	768.4	782.8	798.9	827.6	838.3	832.9	813.2	775.6
17.5°	725.5	720.1	745.2	772.0	798.9	818.6	856.2	881.3	877.7	870.5	813.2
20°	727.2	732.6	741.6	764.9	807.9	843.7	890.2	931.4	940.4	936.8	863.4
22.5°	759.5	761.3	770.2	781.0	815.0	861.6	931.4	997.7	1013.8	1004.9	918.9
25°	791.7	806.1	806.1	813.2	825.8	874.1	958.3	1051.5	1074.7	1076.5	976.2
27.5°	843.7	847.3	858.0	861.6	872.3	901.0	988.8	1090.9	1144.6	1137.4	1028.2
30°	904.6	906.4	913.5	910.0	911.7	947.6	1017.4	1135.6	1209.1	1210.9	1083.7
32.5°	976.2	990.6	994.1	970.9	974.4	983.4	1062.2	1189.4	1289.7	1277.2	1132.1
35°	1081.9	1087.3	1076.5	1065.8	1038.9	1033.5	1108.8	1243.1	1359.6	1373.9	1203.7
37.5°	1212.7	1227.0	1212.7	1155.4	1126.7	1105.2	1166.1	1302.2	1443.7	1492.1	1275.4
40°	1334.5	1332.7	1318.4	1266.4	1216.3	1200.1	1248.5	1384.6	1574.5	1621.1	1379.3
42.5°	1433.0	1427.6	1418.7	1379.3	1332.7	1305.8	1343.4	1470.6	1683.8	1773.3	1499.3
45°	1519.0	1511.8	1513.6	1468.8	1424.0	1438.4	1438.4	1569.1	1812.7	1923.8	1637.2
47.5°	1599.6	1603.2	1597.8	1563.8	1529.7	1567.3	1547.6	1682.0	1939.9	2063.5	1753.6
50°	1692.7	1699.9	1682.0	1660.5	1630.0	1667.6	1642.6	1787.7	2022.3	2190.7	1893.3
52.5°	1780.5	1787.7	1803.8	1776.9	1746.5	1776.9	1719.6	1886.2	2131.6	2314.3	2000.8
55°	1802.0	1798.4	1888.0	1916.6	1932.8	1841.4	1787.7	1970.4	2217.6	2393.1	2122.6
57.5°	1703.5	1712.4	1834.2	1916.6	2088.6	2009.8	1864.7	2068.9	2307.1	2497.0	2235.5
60°	1458.1	1463.4	1615.7	1810.9	2061.7	2167.4	2072.5	2196.1	2405.6	2584.8	2362.7
62.5°	974.4	1015.6	1205.5	1511.8	1871.9	2210.4	2403.9	2411.0	2525.7	2695.8	2536.4
65°	514.1	533.8	682.5	929.7	1418.7	2061.7	2715.5	2837.3	2765.7	2900.0	2787.2
67.5°	336.8	343.9	424.5	564.2	818.6	1504.6	2751.4	3577.1	3247.5	3288.7	3188.4
70°	250.8	254.4	313.5	417.4	506.9	804.3	2255.2	3922.8	3921.0	3811.8	3664.9
72.5°	184.5	189.9	231.1	318.8	390.5	433.5	1268.2	3509.0	4127.0	4071.5	3693.5
75°	145.1	148.7	170.2	247.2	315.3	284.8	643.1	2599.1	3500.1	3767.0	3380.1
77.5°	118.2	121.8	134.3	179.1	252.6	220.3	308.1	1676.6	2373.4	2711.9	2586.6
80°	98.5	98.5	107.5	127.2	195.2	166.6	182.7	942.2	1278.9	1411.5	1173.3
82.5°	84.2	82.4	89.6	93.1	145.1	120.0	118.2	426.3	562.5	596.5	440.6
85°	53.7	55.5	84.2	80.6	94.9	82.4	66.3	202.4	265.1	270.5	164.8
87.5°	21.5	21.5	35.8	44.8	53.7	50.2	32.2	91.4	116.4	116.4	46.6
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°	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1	634.1
2.5°	639.5	632.3	626.9	623.4	614.4	605.4	607.2	605.4	598.3	594.7	594.7
5°	646.6	639.5	630.5	616.2	607.2	596.5	600.1	592.9	585.7	591.1	582.2
7.5°	664.6	652.0	639.5	618.0	603.6	587.5	580.4	576.8	571.4	567.8	567.8
10°	689.6	671.7	648.4	616.2	592.9	567.8	564.2	557.1	551.7	551.7	549.9
12.5°	714.7	695.0	655.6	603.6	564.2	546.3	544.5	546.3	549.9	551.7	553.5
15°	746.9	714.7	653.8	580.4	541.0	533.8	542.7	549.9	557.1	564.2	562.5
17.5°	777.4	739.8	637.7	551.7	521.3	523.0	539.2	553.5	567.8	575.0	576.8
20°	818.6	763.1	614.4	517.7	501.5	517.7	539.2	557.1	573.2	582.2	583.9
22.5°	865.2	789.9	583.9	487.2	485.4	501.5	523.0	549.9	567.8	583.9	582.2
25°	906.4	807.9	544.5	462.1	465.7	476.5	501.5	530.2	548.1	566.0	560.7
27.5°	933.2	811.4	503.3	444.2	444.2	455.0	478.3	496.2	512.3	526.6	528.4
30°	963.7	804.3	456.8	420.9	420.9	435.3	444.2	455.0	463.9	467.5	471.1
32.5°	999.5	788.1	428.1	403.0	403.0	413.8	419.2	415.6	413.8	404.8	410.2
35°	1033.5	764.9	395.9	379.7	386.9	392.3	390.5	379.7	369.0	352.9	347.5
37.5°	1074.7	741.6	367.2	354.7	367.2	369.0	369.0	356.5	342.1	322.4	322.4
40°	1137.4	723.7	343.9	338.5	351.1	349.3	340.3	331.4	336.8	326.0	326.0
42.5°	1203.7	716.5	322.4	324.2	329.6	331.4	322.4	311.7	333.2	320.6	322.4
45°	1286.1	721.9	308.1	306.3	318.8	317.1	311.7	302.7	309.9	277.6	268.7
47.5°	1363.1	732.6	300.9	293.8	308.1	311.7	304.5	284.8	274.1	254.4	250.8
50°	1433.0	755.9	293.8	279.4	293.8	300.9	288.4	266.9	254.4	241.8	241.8
52.5°	1499.3	789.9	290.2	263.3	275.9	284.8	277.6	256.1	241.8	236.4	231.1
55°	1567.3	820.4	284.8	252.6	256.1	274.1	272.3	243.6	229.3	229.3	227.5
57.5°	1664.1	861.6	277.6	234.7	241.8	261.5	261.5	238.2	222.1	223.9	225.7
60°	1762.6	910.0	270.5	216.7	222.1	249.0	252.6	231.1	216.7	218.5	216.7
62.5°	1920.2	999.5	256.1	195.2	206.0	232.9	241.8	222.1	209.6	213.2	213.2
65°	2158.5	1153.6	225.7	177.3	189.9	218.5	231.1	213.2	198.8	209.6	206.0
67.5°	2541.8	1364.9	189.9	163.0	179.1	204.2	218.5	202.4	189.9	206.0	200.6
70°	2885.7	1468.8	163.0	150.5	163.0	188.1	204.2	191.7	179.1	195.2	188.1
72.5°	2746.0	1151.8	141.5	136.1	148.7	170.2	189.9	177.3	164.8	173.8	166.6
75°	2369.8	917.1	123.6	121.8	132.6	154.0	173.8	164.8	152.3	155.8	152.3
77.5°	1796.6	757.7	105.7	103.9	112.8	137.9	155.8	148.7	136.1	134.3	134.3
80°	802.5	372.6	87.8	87.8	93.1	118.2	132.6	129.0	116.4	114.6	112.8
82.5°	263.3	141.5	71.6	68.1	75.2	98.5	118.2	114.6	102.1	98.5	94.9
85°	105.7	68.1	51.9	51.9	59.1	82.4	105.7	98.5	82.4	73.4	73.4
87.5°	35.8	28.7	26.9	26.9	37.6	55.5	78.8	66.3	59.1	51.9	53.7
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)