

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: P675668

Luminaire Tested: **CCW-SA-1D-727-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675668
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-727-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
SL4 distribution lens
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

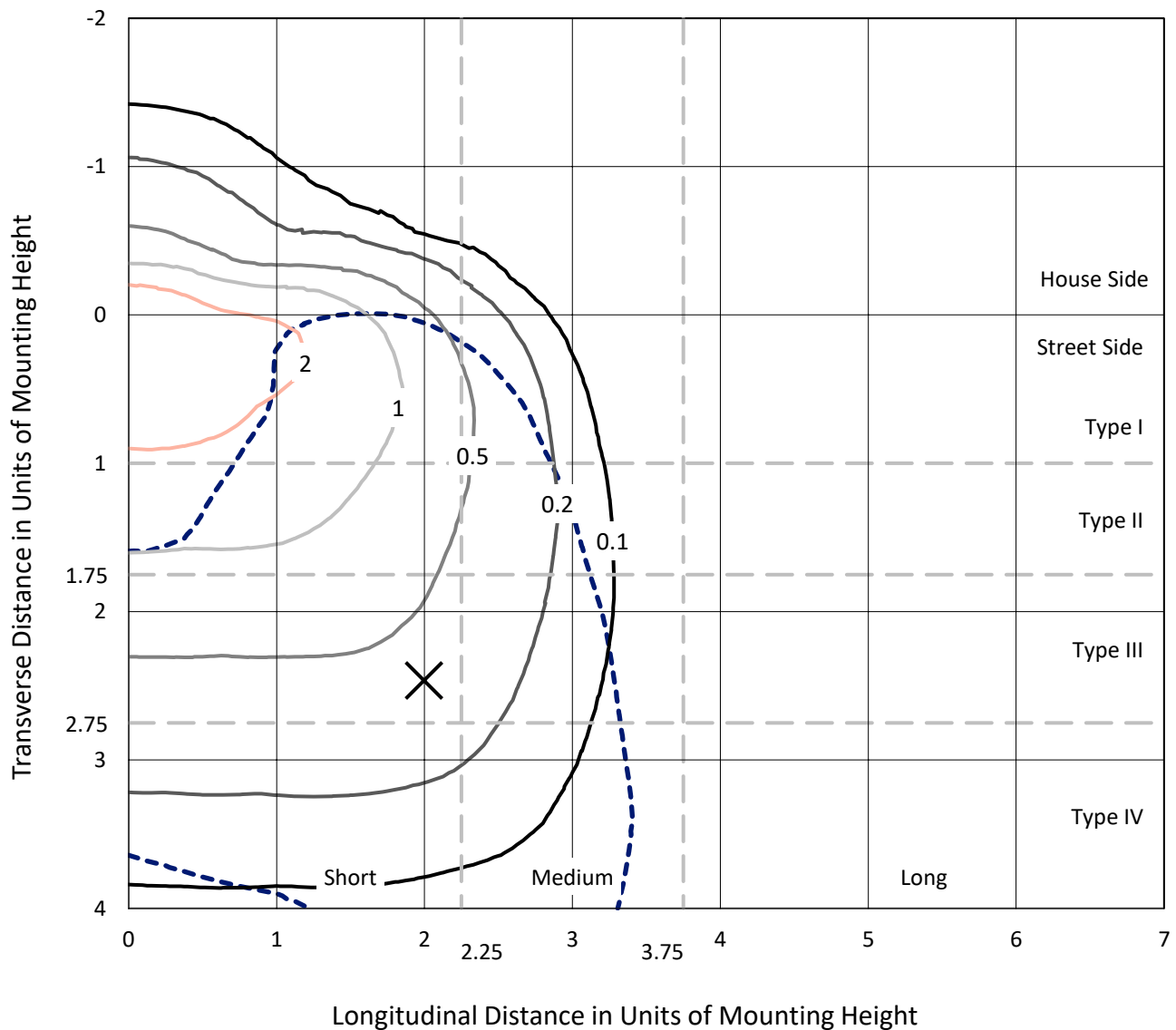
Lumens per Lamp: N/A
Luminaire Lumens: 4570.3 lumens
Efficiency: N/A
Efficacy: 103.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

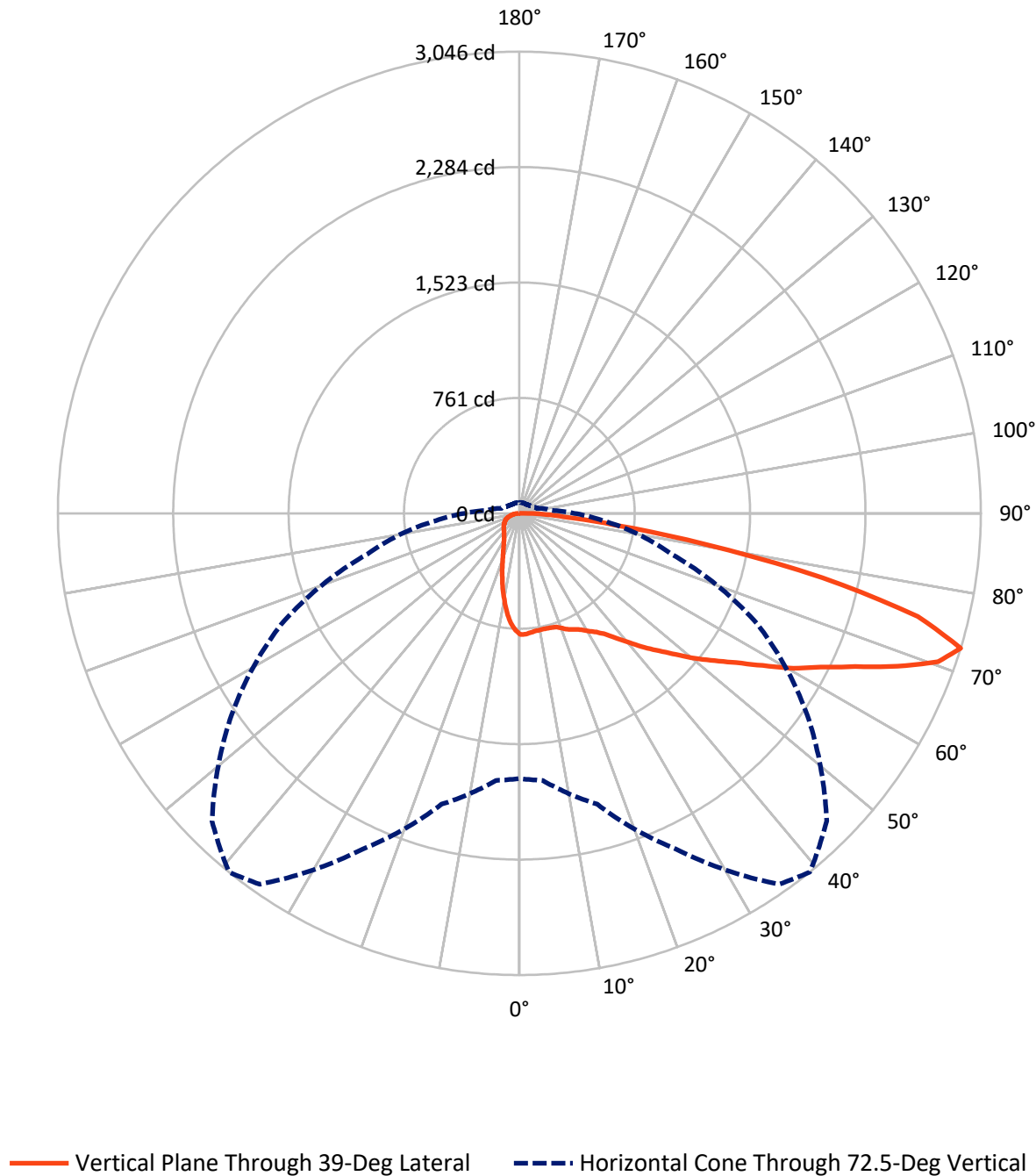
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	679.2	0.0	679.2
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	3891.1	0.0	3891.1
	% Fixture	85.1	0.0	85.1
Total	Lumens	4570.3	0.0	4570.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.7	1.5
10°-20°	180.4	3.9
20°-30°	274.9	6.0
30°-40°	402.1	8.8
40°-50°	615.6	13.5
50°-60°	902.9	19.8
60°-70°	1151.5	25.2
70°-80°	832.0	18.2
80°-90°	140.3	3.1
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°	4570.3	100.0
0°-180°	4570.3	100.0



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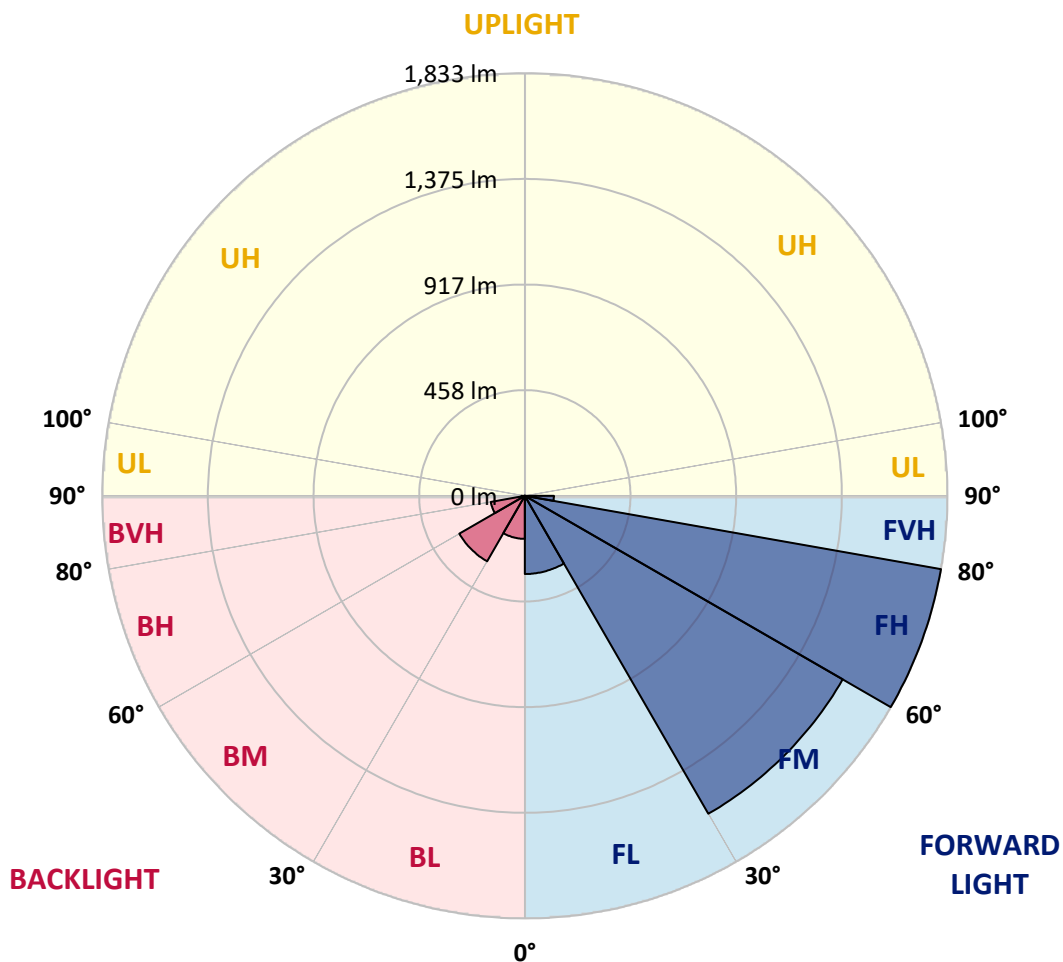
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	339.2	7.4			
FM	(30°-60°)	1592.4	34.8			
FH	(60°-80°)	1833.3	40.1			G2/5000
FVH	(80°-90°)	126.1	2.8			G2/225
BL	(0°-30°)	186.8	4.1	B1/500		
BM	(30°-60°)	328.1	7.2	B1/1000		
BH	(60°-80°)	150.1	3.3	B1/500		G1/500
BVH	(80°-90°)	14.2	0.3			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°	39°	45°	55°	65°	75°	85°
0°	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0
2.5°	812.0	813.7	810.3	806.9	805.2	798.3	805.2	801.7	798.3	798.3	798.3
5°	801.7	803.4	803.4	800.0	801.7	789.7	788.0	789.7	784.6	781.1	779.4
7.5°	786.3	789.7	796.6	794.9	788.0	782.8	784.6	782.8	774.3	769.1	755.4
10°	774.3	777.7	781.1	784.6	782.8	781.1	779.4	772.5	770.8	758.8	745.1
12.5°	762.2	762.2	764.0	777.7	779.4	779.4	769.1	769.1	764.0	762.2	741.6
15°	750.2	755.4	769.1	772.5	779.4	782.8	777.7	777.7	769.1	757.1	741.6
17.5°	753.7	762.2	776.0	784.6	788.0	788.0	794.9	789.7	777.7	770.8	755.4
20°	770.8	772.5	789.7	805.2	808.6	808.6	801.7	796.6	788.0	776.0	755.4
22.5°	781.1	793.1	813.7	822.3	832.6	832.6	824.0	812.0	800.0	788.0	765.7
25°	825.8	827.5	836.1	849.8	854.9	848.1	839.5	825.8	810.3	798.3	777.7
27.5°	856.7	865.2	875.5	882.4	873.8	868.7	861.8	846.4	834.3	824.0	794.9
30°	913.3	903.0	909.9	913.3	897.9	901.3	882.4	868.7	854.9	854.9	822.3
32.5°	947.6	956.2	949.4	947.6	935.6	933.9	921.9	906.4	897.9	908.2	863.5
35°	1007.7	1002.6	1002.6	1000.9	987.1	978.5	978.5	951.1	959.7	982.0	927.0
37.5°	1038.6	1036.9	1047.2	1055.8	1042.1	1047.2	1042.1	1030.1	1033.5	1073.0	1006.0
40°	1069.5	1081.6	1102.2	1105.6	1114.2	1121.0	1117.6	1115.9	1129.6	1193.1	1112.5
42.5°	1098.7	1109.0	1139.9	1167.4	1188.0	1210.3	1212.0	1212.0	1256.7	1347.6	1241.2
45°	1136.5	1145.1	1188.0	1242.9	1277.3	1292.7	1306.4	1321.9	1382.0	1490.1	1378.6
47.5°	1188.0	1194.9	1246.4	1315.0	1382.0	1390.6	1418.0	1435.2	1526.2	1636.1	1519.3
50°	1261.8	1256.7	1297.9	1397.4	1462.7	1503.9	1543.4	1574.3	1663.5	1783.7	1629.2
52.5°	1321.9	1321.9	1352.8	1485.0	1574.3	1613.7	1654.9	1697.9	1800.9	1931.3	1718.5
55°	1424.9	1414.6	1433.5	1570.8	1699.6	1737.4	1816.3	1852.4	1951.9	2041.2	1794.0
57.5°	1495.3	1500.4	1522.8	1684.1	1847.2	1893.6	1972.5	1998.3	2085.9	2156.2	1848.9
60°	1588.0	1570.8	1618.9	1809.5	2010.3	2075.6	2140.8	2156.2	2221.5	2230.1	1874.7
62.5°	1677.3	1673.8	1715.0	1934.8	2185.4	2231.8	2298.7	2315.9	2343.4	2288.4	1838.6
65°	1732.2	1754.5	1831.8	2072.1	2384.6	2436.1	2503.0	2468.7	2437.8	2236.9	1661.8
67.5°	1807.7	1818.0	1936.5	2221.5	2614.6	2691.9	2750.2	2614.6	2384.6	2025.8	1399.2
70°	1824.9	1852.4	2006.9	2377.7	2851.5	2930.5	2933.9	2564.8	2190.6	1648.1	1014.6
72.5°	1749.4	1768.3	1986.3	2442.9	2987.1	3045.5	2868.7	2319.3	1735.6	1038.6	552.8
75°	1471.3	1524.5	1728.8	2242.1	2738.2	2715.9	2430.9	1770.0	1042.1	460.1	233.5
77.5°	1024.9	1026.6	1239.5	1630.9	2049.8	2044.7	1733.9	1026.6	446.4	185.4	137.3
80°	454.9	487.6	616.3	879.0	1244.6	1244.6	1011.2	509.9	223.2	120.2	94.4
82.5°	267.8	278.1	329.6	410.3	606.0	638.6	484.1	339.9	152.8	75.5	58.4
85°	197.4	214.6	245.5	247.2	286.7	291.8	267.8	295.3	104.7	41.2	48.1
87.5°	147.6	157.9	195.7	163.1	152.8	144.2	164.8	302.1	39.5	20.6	15.5
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°	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0	800.0
2.5°	791.4	791.4	788.0	781.1	781.1	767.4	770.8	774.3	765.7	765.7	767.4
5°	779.4	772.5	764.0	753.7	746.8	727.9	724.5	712.5	710.7	707.3	702.2
7.5°	755.4	745.1	729.6	714.2	691.9	674.7	654.1	636.9	630.0	624.9	623.2
10°	733.1	731.3	705.6	674.7	640.3	607.7	576.8	554.5	540.8	532.2	530.5
12.5°	733.1	719.3	683.3	640.3	590.6	542.5	503.0	472.1	453.2	439.5	434.3
15°	729.6	715.9	667.8	602.6	545.9	480.7	425.8	393.1	365.7	351.9	353.7
17.5°	733.1	712.5	645.5	575.1	496.1	425.8	360.5	321.0	293.6	283.3	281.5
20°	734.8	709.0	628.3	537.3	444.6	365.7	303.9	266.1	245.5	238.6	238.6
22.5°	731.3	698.7	602.6	492.7	400.0	315.9	264.4	231.8	218.0	209.4	212.9
25°	746.8	697.0	578.5	454.9	348.5	274.7	235.2	211.2	202.6	197.4	199.1
27.5°	750.2	697.0	559.7	412.0	303.9	243.8	212.9	197.4	190.6	187.1	185.4
30°	764.0	700.4	537.3	369.1	267.8	219.7	195.7	187.1	182.0	180.3	180.3
32.5°	801.7	710.7	513.3	333.0	236.9	199.1	183.7	176.8	173.4	171.7	173.4
35°	846.4	738.2	487.6	295.3	214.6	185.4	173.4	168.2	166.5	166.5	166.5
37.5°	915.0	779.4	465.2	264.4	195.7	171.7	163.1	161.4	159.7	161.4	161.4
40°	994.0	824.0	444.6	240.3	182.0	163.1	154.5	154.5	152.8	154.5	156.2
42.5°	1085.0	879.0	424.0	216.3	170.0	156.2	149.4	147.6	145.9	149.4	151.1
45°	1210.3	954.5	410.3	202.6	161.4	149.4	142.5	142.5	140.8	140.8	144.2
47.5°	1315.0	1026.6	410.3	188.8	156.2	144.2	137.3	137.3	133.9	135.6	135.6
50°	1402.6	1088.4	418.9	185.4	149.4	139.1	133.9	130.5	128.8	128.8	128.8
52.5°	1461.0	1126.2	425.8	182.0	145.9	132.2	128.8	127.0	123.6	121.9	123.6
55°	1519.3	1151.9	427.5	182.0	140.8	125.3	121.9	121.9	118.5	116.7	116.7
57.5°	1541.6	1141.6	403.4	178.5	137.3	120.2	116.7	115.0	113.3	111.6	111.6
60°	1531.3	1103.9	350.2	170.0	133.9	116.7	109.9	109.9	109.9	106.4	108.2
62.5°	1461.0	975.1	281.5	156.2	128.8	109.9	103.0	106.4	106.4	104.7	104.7
65°	1275.5	805.2	228.3	144.2	121.9	104.7	97.9	103.0	104.7	103.0	101.3
67.5°	1019.7	619.7	188.8	130.5	113.3	96.1	91.0	96.1	97.9	96.1	96.1
70°	700.4	400.0	152.8	116.7	101.3	87.6	82.4	85.8	85.8	87.6	87.6
72.5°	362.2	216.3	125.3	99.6	87.6	79.0	73.8	73.8	72.1	72.1	72.1
75°	180.3	147.6	104.7	84.1	73.8	67.0	63.5	60.1	60.1	60.1	60.1
77.5°	125.3	113.3	85.8	67.0	60.1	54.9	54.9	49.8	49.8	49.8	49.8
80°	94.4	89.3	65.2	51.5	46.4	42.9	42.9	41.2	41.2	39.5	39.5
82.5°	67.0	72.1	49.8	37.8	34.3	32.6	32.6	30.9	30.9	27.5	27.5
85°	53.2	60.1	37.8	27.5	25.8	22.3	22.3	20.6	20.6	18.9	17.2
87.5°	15.5	32.6	15.5	10.3	10.3	10.3	10.3	8.6	8.6	6.9	6.9
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)