

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: P671507

Luminaire Tested: **CCP-SA-2A-727-U-SL4**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P671507
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-727-U-SL4
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ SL4
distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4484 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

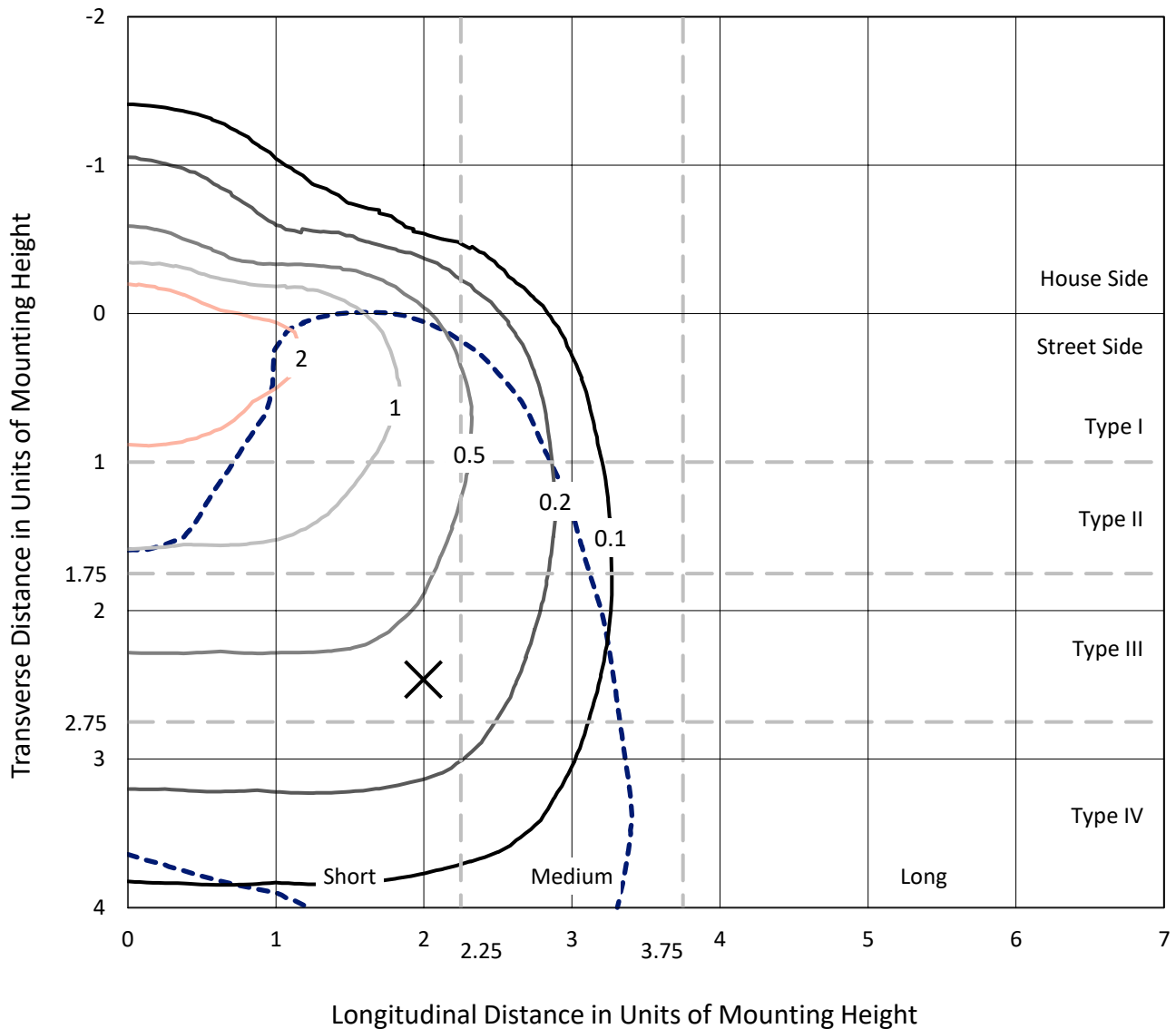
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

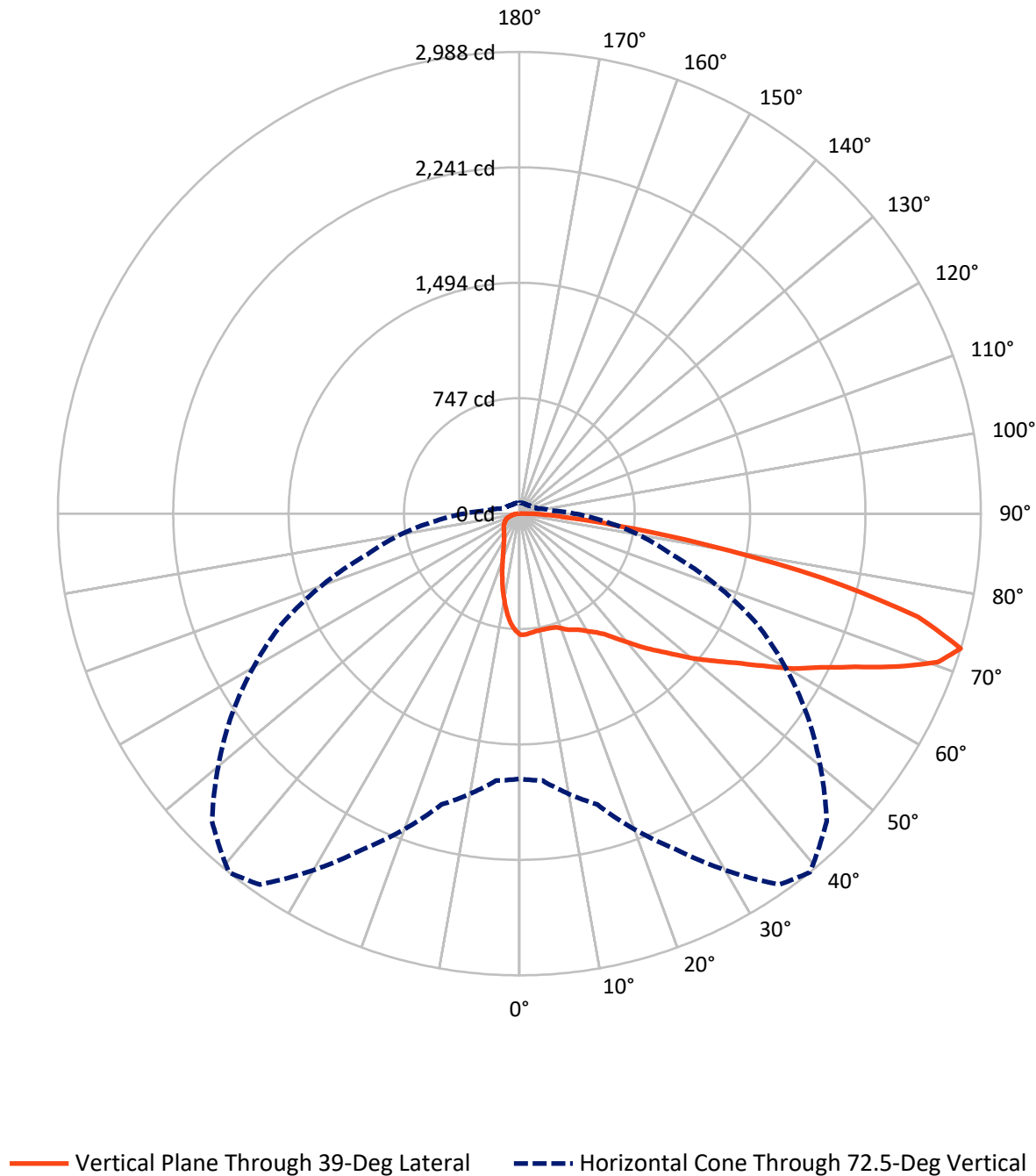
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	666.4	0.0	666.4
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	3817.6	0.0	3817.6
	% Fixture	85.1	0.0	85.1
Total	Lumens	4484.0	0.0	4484.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.3	1.5
10°-20°	177.0	3.9
20°-30°	269.7	6.0
30°-40°	394.5	8.8
40°-50°	604.0	13.5
50°-60°	885.8	19.8
60°-70°	1129.7	25.2
70°-80°	816.3	18.2
80°-90°	137.7	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°	4484.0	100.0
0°-180°	4484.0	100.0

Coefficient of Utilization



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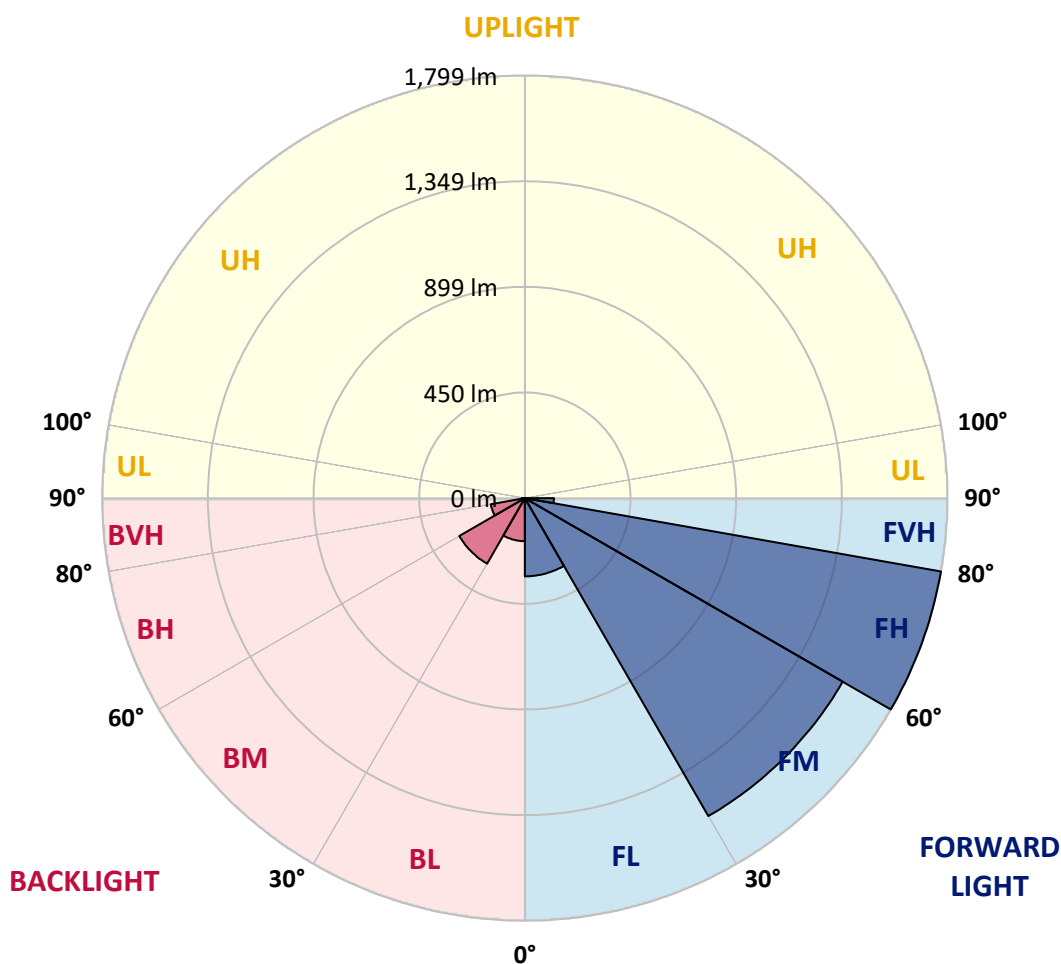
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	332.8	7.4			
FM	(30°-60°)	1562.3	34.8			
FH	(60°-80°)	1798.7	40.1			G1/1800
FVH	(80°-90°)	123.7	2.8			G2/225
BL	(0°-30°)	183.3	4.1	B1/500		
BM	(30°-60°)	321.9	7.2	B1/1000		
BH	(60°-80°)	147.2	3.3	B1/500		G1/500
BVH	(80°-90°)	13.9	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°	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9
2.5°	796.7	798.4	795.0	791.6	790.0	783.2	790.0	786.6	783.2	783.2	783.2
5°	786.6	788.3	788.3	784.9	786.6	774.8	773.1	774.8	769.7	766.4	764.7
7.5°	771.4	774.8	781.5	779.9	773.1	768.1	769.7	768.1	759.6	754.6	741.1
10°	759.6	763.0	766.4	769.7	768.1	766.4	764.7	758.0	756.3	744.5	731.0
12.5°	747.9	747.9	749.5	763.0	764.7	764.7	754.6	754.6	749.5	747.9	727.6
15°	736.1	741.1	754.6	758.0	764.7	768.1	763.0	763.0	754.6	742.8	727.6
17.5°	739.4	747.9	761.3	769.7	773.1	773.1	779.9	774.8	763.0	756.3	741.1
20°	756.3	758.0	774.8	790.0	793.3	793.3	786.6	781.5	773.1	761.3	741.1
22.5°	766.4	778.2	798.4	806.8	816.9	816.9	808.5	796.7	784.9	773.1	751.2
25°	810.2	811.9	820.3	833.8	838.8	832.1	823.6	810.2	795.0	783.2	763.0
27.5°	840.5	848.9	859.0	865.8	857.3	852.3	845.5	830.4	818.6	808.5	779.9
30°	896.1	886.0	892.7	896.1	880.9	884.3	865.8	852.3	838.8	838.8	806.8
32.5°	929.8	938.2	931.4	929.8	918.0	916.3	904.5	889.3	880.9	891.0	847.2
35°	988.7	983.7	983.7	982.0	968.5	960.1	960.1	933.1	941.6	963.4	909.5
37.5°	1019.0	1017.3	1027.5	1035.9	1022.4	1027.5	1022.4	1010.6	1014.0	1052.7	987.0
40°	1049.3	1061.1	1081.4	1084.7	1093.1	1099.9	1096.5	1094.8	1108.3	1170.6	1091.5
42.5°	1078.0	1088.1	1118.4	1145.4	1165.6	1187.5	1189.1	1189.1	1232.9	1322.2	1217.8
45°	1115.0	1123.5	1165.6	1219.5	1253.2	1268.3	1281.8	1296.9	1355.9	1462.0	1352.5
47.5°	1165.6	1172.3	1222.8	1290.2	1355.9	1364.3	1391.3	1408.1	1497.4	1605.2	1490.6
50°	1238.0	1232.9	1273.4	1371.1	1435.1	1475.5	1514.2	1544.5	1632.1	1750.0	1598.4
52.5°	1296.9	1296.9	1327.3	1457.0	1544.5	1583.3	1623.7	1665.8	1766.9	1894.9	1686.0
55°	1398.0	1387.9	1406.4	1541.2	1667.5	1704.6	1782.0	1817.4	1915.1	2002.7	1760.1
57.5°	1467.1	1472.1	1494.0	1652.3	1812.4	1857.8	1935.3	1960.6	2046.5	2115.5	1814.0
60°	1558.0	1541.2	1588.3	1775.3	1972.4	2036.4	2100.4	2115.5	2179.5	2188.0	1839.3
62.5°	1645.6	1642.2	1682.7	1898.3	2144.2	2189.7	2255.3	2272.2	2299.1	2245.2	1803.9
65°	1699.5	1721.4	1797.2	2033.0	2339.6	2390.1	2455.8	2422.1	2391.8	2194.7	1630.4
67.5°	1773.6	1783.7	1899.9	2179.5	2565.3	2641.1	2698.3	2565.3	2339.6	1987.5	1372.7
70°	1790.5	1817.4	1969.0	2332.8	2797.7	2875.2	2878.6	2516.4	2149.2	1617.0	995.4
72.5°	1716.4	1734.9	1948.8	2396.8	2930.8	2988.0	2814.5	2275.6	1702.9	1019.0	542.4
75°	1443.5	1495.7	1696.1	2199.8	2686.5	2664.6	2385.0	1736.6	1022.4	451.4	229.1
77.5°	1005.6	1007.2	1216.1	1600.1	2011.1	2006.1	1701.2	1007.2	437.9	181.9	134.7
80°	446.4	478.4	604.7	862.4	1221.2	1221.2	992.1	500.3	219.0	117.9	92.6
82.5°	262.8	272.9	323.4	402.6	594.6	626.6	475.0	333.5	149.9	74.1	57.3
85°	193.7	210.5	240.9	242.5	281.3	286.3	262.8	289.7	102.7	40.4	47.2
87.5°	144.9	155.0	192.0	160.0	149.9	141.5	161.7	296.4	38.7	20.2	15.2
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°	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9	784.9
2.5°	776.5	776.5	773.1	766.4	766.4	752.9	756.3	759.6	751.2	751.2	752.9
5°	764.7	758.0	749.5	739.4	732.7	714.2	710.8	699.0	697.3	694.0	688.9
7.5°	741.1	731.0	715.8	700.7	678.8	661.9	641.7	624.9	618.2	613.1	611.4
10°	719.2	717.5	692.3	661.9	628.3	596.3	565.9	544.0	530.6	522.1	520.5
12.5°	719.2	705.7	670.4	628.3	579.4	532.3	493.5	463.2	444.7	431.2	426.1
15°	715.8	702.4	655.2	591.2	535.6	471.6	417.7	385.7	358.8	345.3	347.0
17.5°	719.2	699.0	633.3	564.3	486.8	417.7	353.7	315.0	288.0	277.9	276.2
20°	720.9	695.6	616.5	527.2	436.2	358.8	298.1	261.1	240.9	234.1	234.1
22.5°	717.5	685.5	591.2	483.4	392.5	309.9	259.4	227.4	213.9	205.5	208.9
25°	732.7	683.8	567.6	446.4	341.9	269.5	230.8	207.2	198.8	193.7	195.4
27.5°	736.1	683.8	549.1	404.2	298.1	239.2	208.9	193.7	187.0	183.6	181.9
30°	749.5	687.2	527.2	362.1	262.8	215.6	192.0	183.6	178.5	176.9	176.9
32.5°	786.6	697.3	503.6	326.8	232.4	195.4	180.2	173.5	170.1	168.4	170.1
35°	830.4	724.3	478.4	289.7	210.5	181.9	170.1	165.1	163.4	163.4	163.4
37.5°	897.8	764.7	456.5	259.4	192.0	168.4	160.0	158.3	156.6	158.3	158.3
40°	975.2	808.5	436.2	235.8	178.5	160.0	151.6	151.6	149.9	151.6	153.3
42.5°	1064.5	862.4	416.0	212.2	166.8	153.3	146.5	144.9	143.2	146.5	148.2
45°	1187.5	936.5	402.6	198.8	158.3	146.5	139.8	139.8	138.1	138.1	141.5
47.5°	1290.2	1007.2	402.6	185.3	153.3	141.5	134.7	134.7	131.4	133.1	133.1
50°	1376.1	1067.9	411.0	181.9	146.5	136.4	131.4	128.0	126.3	126.3	126.3
52.5°	1433.4	1104.9	417.7	178.5	143.2	129.7	126.3	124.6	121.3	119.6	121.3
55°	1490.6	1130.2	419.4	178.5	138.1	123.0	119.6	119.6	116.2	114.5	114.5
57.5°	1512.5	1120.1	395.8	175.2	134.7	117.9	114.5	112.9	111.2	109.5	109.5
60°	1502.4	1083.0	343.6	166.8	131.4	114.5	107.8	107.8	107.8	104.4	106.1
62.5°	1433.4	956.7	276.2	153.3	126.3	107.8	101.1	104.4	104.4	102.7	102.7
65°	1251.5	790.0	224.0	141.5	119.6	102.7	96.0	101.1	102.7	101.1	99.4
67.5°	1000.5	608.0	185.3	128.0	111.2	94.3	89.3	94.3	96.0	94.3	94.3
70°	687.2	392.5	149.9	114.5	99.4	85.9	80.8	84.2	84.2	85.9	85.9
72.5°	355.4	212.2	123.0	97.7	85.9	77.5	72.4	72.4	70.7	70.7	70.7
75°	176.9	144.9	102.7	82.5	72.4	65.7	62.3	59.0	59.0	59.0	59.0
77.5°	123.0	111.2	84.2	65.7	59.0	53.9	53.9	48.8	48.8	48.8	48.8
80°	92.6	87.6	64.0	50.5	45.5	42.1	42.1	40.4	40.4	38.7	38.7
82.5°	65.7	70.7	48.8	37.1	33.7	32.0	32.0	30.3	30.3	26.9	26.9
85°	52.2	59.0	37.1	26.9	25.3	21.9	21.9	20.2	20.2	18.5	16.8
87.5°	15.2	32.0	15.2	10.1	10.1	10.1	10.1	8.4	8.4	6.7	6.7
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)