

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: P675680

Luminaire Tested: **CCW-SA-1E-730-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675680
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-730-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SL4 distribution lens
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

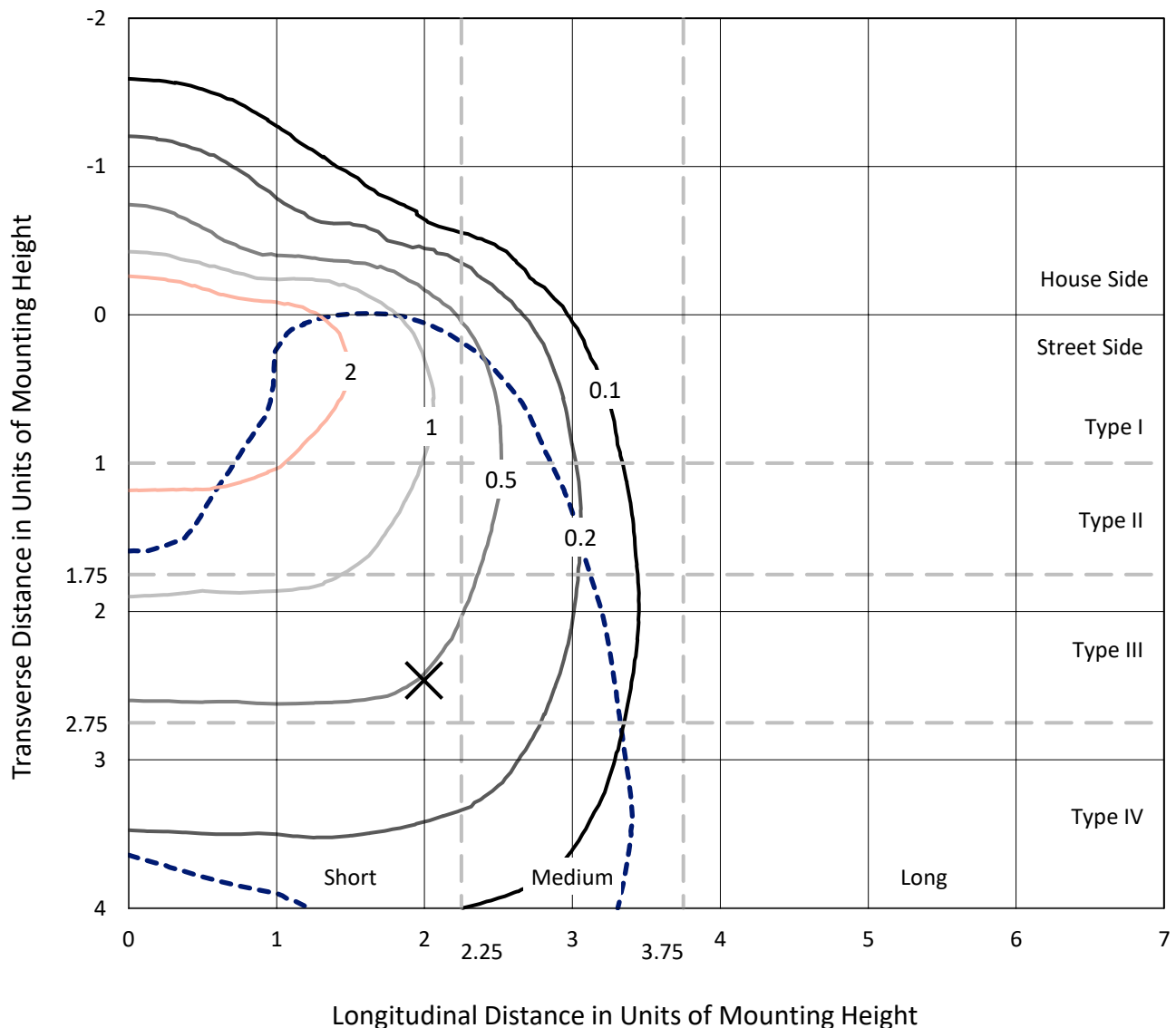
Lumens per Lamp: N/A
Luminaire Lumens: 6100.8 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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

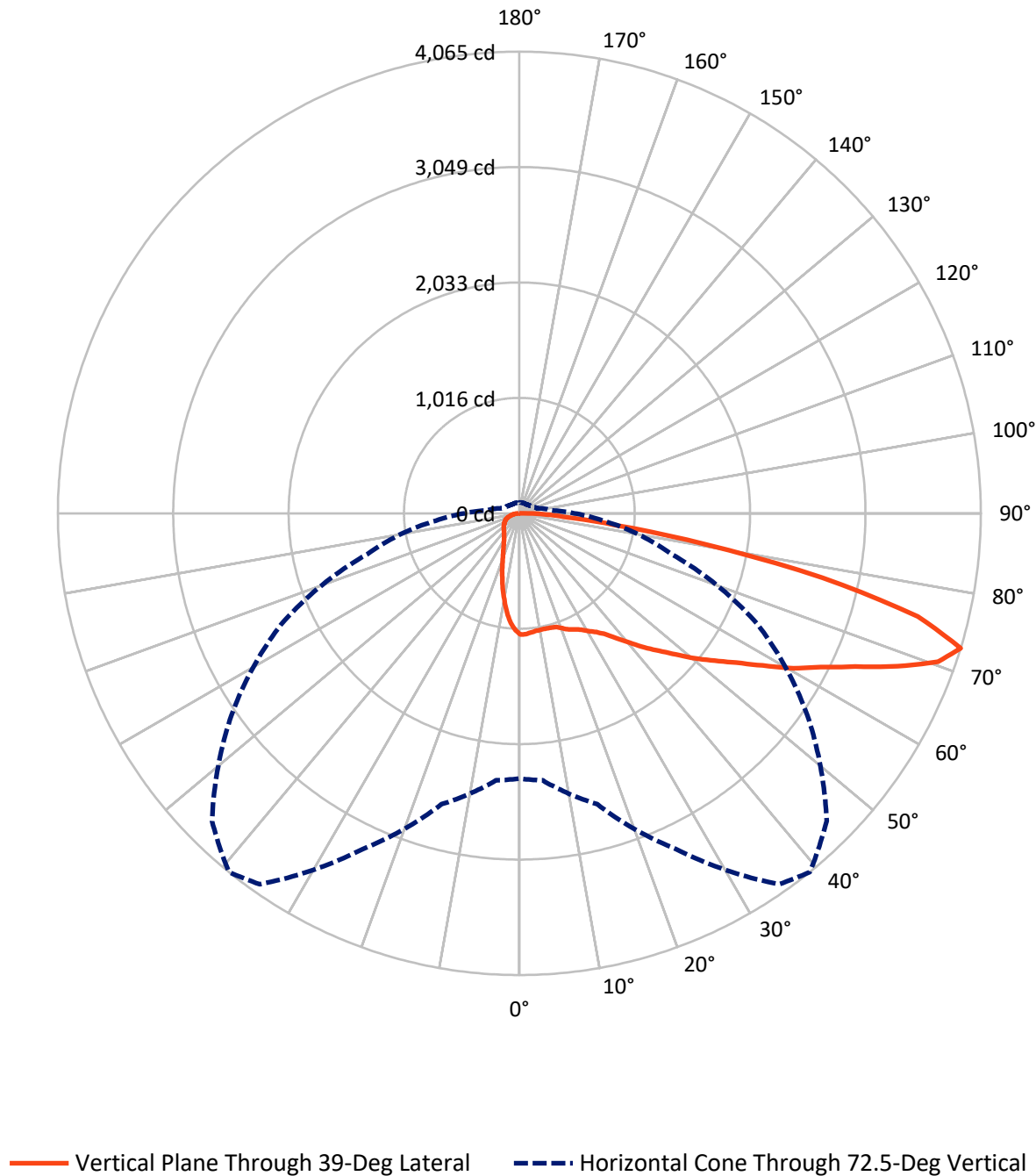
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 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	906.7	0.0	906.7
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	5194.1	0.0	5194.1
	% Fixture	85.1	0.0	85.1
Total	Lumens	6100.8	0.0	6100.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.3	1.5
10°-20°	240.8	3.9
20°-30°	366.9	6.0
30°-40°	536.7	8.8
40°-50°	821.7	13.5
50°-60°	1205.2	19.8
60°-70°	1537.1	25.2
70°-80°	1110.6	18.2
80°-90°	187.3	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°	6100.8	100.0
0°-180°	6100.8	100.0

Coefficient of Utilization



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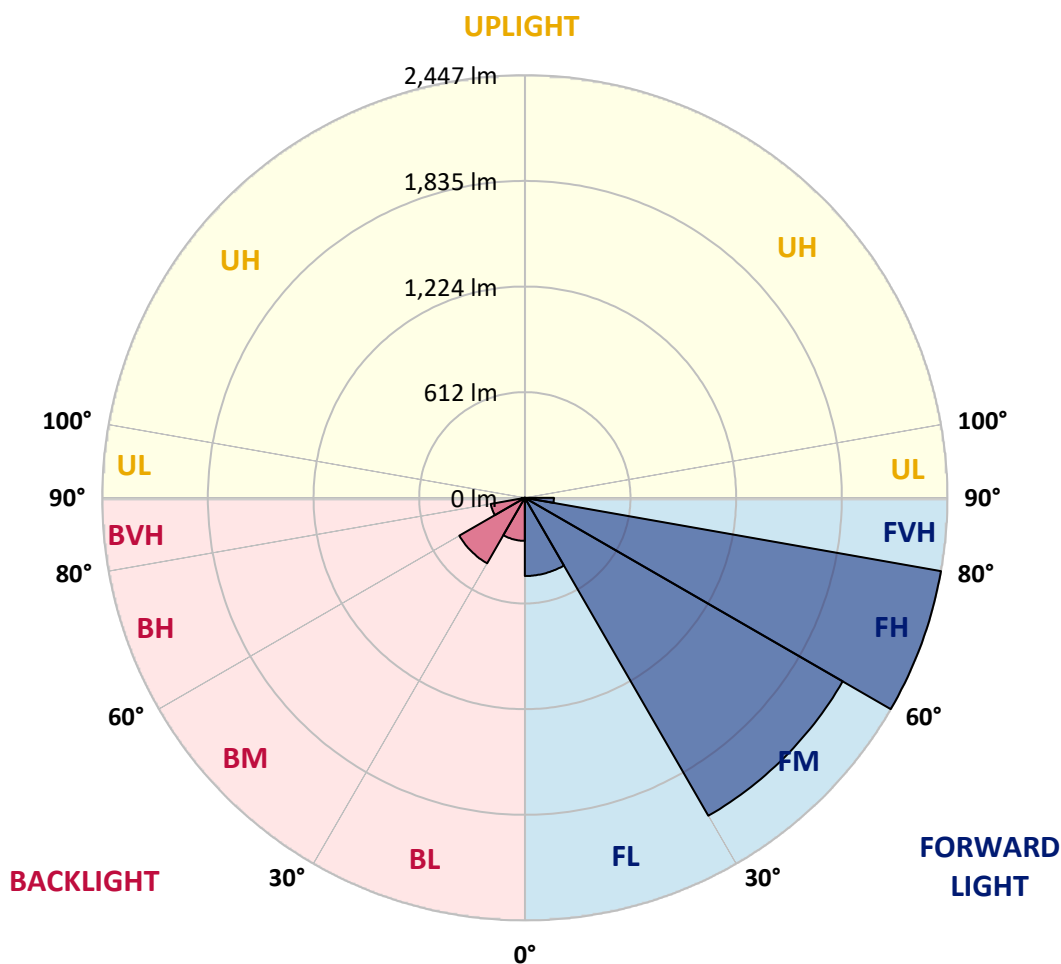
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	452.8	7.4			
FM	(30°-60°)	2125.7	34.8			
FH	(60°-80°)	2447.3	40.1			G2/5000
FVH	(80°-90°)	168.4	2.8			G2/225
BL	(0°-30°)	249.4	4.1	B1/500		
BM	(30°-60°)	438.0	7.2	B1/1000		
BH	(60°-80°)	200.3	3.3	B1/500		G1/500
BVH	(80°-90°)	19.0	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°	1067.9	1067.9	1067.9	1067.9	1067.9	1067.9	1067.9	1067.9	1067.9	1067.9	1067.9
2.5°	1084.0	1086.2	1081.7	1077.1	1074.8	1065.6	1074.8	1070.2	1065.6	1065.6	1065.6
5°	1070.2	1072.5	1072.5	1067.9	1070.2	1054.2	1051.9	1054.2	1047.3	1042.7	1040.4
7.5°	1049.6	1054.2	1063.3	1061.0	1051.9	1045.0	1047.3	1045.0	1033.5	1026.7	1008.3
10°	1033.5	1038.1	1042.7	1047.3	1045.0	1042.7	1040.4	1031.2	1029.0	1012.9	994.6
12.5°	1017.5	1017.5	1019.8	1038.1	1040.4	1040.4	1026.7	1026.7	1019.8	1017.5	990.0
15°	1001.5	1008.3	1026.7	1031.2	1040.4	1045.0	1038.1	1038.1	1026.7	1010.6	990.0
17.5°	1006.0	1017.5	1035.8	1047.3	1051.9	1051.9	1061.0	1054.2	1038.1	1029.0	1008.3
20°	1029.0	1031.2	1054.2	1074.8	1079.4	1079.4	1070.2	1063.3	1051.9	1035.8	1008.3
22.5°	1042.7	1058.7	1086.2	1097.7	1111.4	1111.4	1100.0	1084.0	1067.9	1051.9	1022.1
25°	1102.3	1104.6	1116.0	1134.4	1141.2	1132.1	1120.6	1102.3	1081.7	1065.6	1038.1
27.5°	1143.5	1155.0	1168.7	1177.9	1166.4	1159.6	1150.4	1129.8	1113.7	1100.0	1061.0
30°	1219.2	1205.4	1214.6	1219.2	1198.5	1203.1	1177.9	1159.6	1141.2	1141.2	1097.7
32.5°	1265.0	1276.4	1267.3	1265.0	1248.9	1246.7	1230.6	1210.0	1198.5	1212.3	1152.7
35°	1345.2	1338.3	1338.3	1336.0	1317.7	1306.2	1306.2	1269.6	1281.0	1310.8	1237.5
37.5°	1386.4	1384.2	1397.9	1409.4	1391.0	1397.9	1391.0	1375.0	1379.6	1432.3	1342.9
40°	1427.7	1443.7	1471.2	1475.8	1487.3	1496.4	1491.9	1489.6	1507.9	1592.7	1485.0
42.5°	1466.7	1480.4	1521.7	1558.3	1585.8	1615.6	1617.9	1617.9	1677.5	1798.9	1656.9
45°	1517.1	1528.5	1585.8	1659.2	1705.0	1725.6	1743.9	1764.6	1844.8	1989.2	1840.2
47.5°	1585.8	1595.0	1663.7	1755.4	1844.8	1856.2	1892.9	1915.8	2037.3	2183.9	2028.1
50°	1684.4	1677.5	1732.5	1865.4	1952.5	2007.5	2060.2	2101.4	2220.6	2381.0	2174.8
52.5°	1764.6	1764.6	1805.8	1982.3	2101.4	2154.2	2209.1	2266.4	2403.9	2578.1	2293.9
55°	1902.1	1888.3	1913.5	2096.9	2268.7	2319.1	2424.6	2472.7	2605.6	2724.8	2394.8
57.5°	1996.0	2002.9	2032.7	2248.1	2465.8	2527.7	2633.1	2667.5	2784.4	2878.3	2468.1
60°	2119.8	2096.9	2161.0	2415.4	2683.5	2770.6	2857.7	2878.3	2965.4	2976.9	2502.5
62.5°	2238.9	2234.4	2289.4	2582.7	2917.3	2979.1	3068.5	3091.4	3128.1	3054.8	2454.4
65°	2312.3	2342.1	2445.2	2766.0	3183.1	3251.9	3341.2	3295.4	3254.1	2986.0	2218.3
67.5°	2413.1	2426.9	2585.0	2965.4	3490.2	3593.3	3671.2	3490.2	3183.1	2704.1	1867.7
70°	2436.0	2472.7	2678.9	3173.9	3806.4	3911.8	3916.4	3423.7	2924.1	2200.0	1354.4
72.5°	2335.2	2360.4	2651.4	3261.0	3987.5	4065.4	3829.3	3096.0	2316.9	1386.4	737.9
75°	1963.9	2035.0	2307.7	2992.9	3655.2	3625.4	3245.0	2362.7	1391.0	614.2	311.7
77.5°	1368.1	1370.4	1654.6	2177.1	2736.2	2729.4	2314.6	1370.4	595.8	247.5	183.3
80°	607.3	650.8	822.7	1173.3	1661.4	1661.4	1349.8	680.6	297.9	160.4	126.0
82.5°	357.5	371.2	440.0	547.7	809.0	852.5	646.2	453.7	204.0	100.8	77.9
85°	263.5	286.5	327.7	330.0	382.7	389.6	357.5	394.2	139.8	55.0	64.2
87.5°	197.1	210.8	261.2	217.7	204.0	192.5	220.0	403.3	52.7	27.5	20.6
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°	1067.9	1067.9	1067.9	1067.9	1067.9	1067.9	1067.9	1067.9	1067.9	1067.9	1067.9
2.5°	1056.5	1056.5	1051.9	1042.7	1042.7	1024.4	1029.0	1033.5	1022.1	1022.1	1024.4
5°	1040.4	1031.2	1019.8	1006.0	996.9	971.7	967.1	951.0	948.7	944.2	937.3
7.5°	1008.3	994.6	974.0	953.3	923.5	900.6	873.1	850.2	841.0	834.2	831.9
10°	978.5	976.2	941.9	900.6	854.8	811.2	770.0	740.2	721.9	710.4	708.1
12.5°	978.5	960.2	912.1	854.8	788.3	724.2	671.5	630.2	605.0	586.7	579.8
15°	974.0	955.6	891.5	804.4	728.7	641.7	568.3	524.8	488.1	469.8	472.1
17.5°	978.5	951.0	861.7	767.7	662.3	568.3	481.2	428.5	391.9	378.1	375.8
20°	980.8	946.5	838.7	717.3	593.5	488.1	405.6	355.2	327.7	318.5	318.5
22.5°	976.2	932.7	804.4	657.7	534.0	421.7	352.9	309.4	291.0	279.6	284.2
25°	996.9	930.4	772.3	607.3	465.2	366.7	314.0	281.9	270.4	263.5	265.8
27.5°	1001.5	930.4	747.1	550.0	405.6	325.4	284.2	263.5	254.4	249.8	247.5
30°	1019.8	935.0	717.3	492.7	357.5	293.3	261.2	249.8	242.9	240.6	240.6
32.5°	1070.2	948.7	685.2	444.6	316.2	265.8	245.2	236.0	231.5	229.2	231.5
35°	1129.8	985.4	650.8	394.2	286.5	247.5	231.5	224.6	222.3	222.3	222.3
37.5°	1221.4	1040.4	621.0	352.9	261.2	229.2	217.7	215.4	213.1	215.4	215.4
40°	1326.9	1100.0	593.5	320.8	242.9	217.7	206.2	206.2	204.0	206.2	208.5
42.5°	1448.3	1173.3	566.0	288.7	226.9	208.5	199.4	197.1	194.8	199.4	201.7
45°	1615.6	1274.2	547.7	270.4	215.4	199.4	190.2	190.2	187.9	187.9	192.5
47.5°	1755.4	1370.4	547.7	252.1	208.5	192.5	183.3	183.3	178.7	181.0	181.0
50°	1872.3	1452.9	559.2	247.5	199.4	185.6	178.7	174.2	171.9	171.9	171.9
52.5°	1950.2	1503.3	568.3	242.9	194.8	176.5	171.9	169.6	165.0	162.7	165.0
55°	2028.1	1537.7	570.6	242.9	187.9	167.3	162.7	162.7	158.1	155.8	155.8
57.5°	2057.9	1523.9	538.5	238.3	183.3	160.4	155.8	153.5	151.2	149.0	149.0
60°	2044.2	1473.5	467.5	226.9	178.7	155.8	146.7	146.7	146.7	142.1	144.4
62.5°	1950.2	1301.7	375.8	208.5	171.9	146.7	137.5	142.1	142.1	139.8	139.8
65°	1702.7	1074.8	304.8	192.5	162.7	139.8	130.6	137.5	139.8	137.5	135.2
67.5°	1361.2	827.3	252.1	174.2	151.2	128.3	121.5	128.3	130.6	128.3	128.3
70°	935.0	534.0	204.0	155.8	135.2	116.9	110.0	114.6	114.6	116.9	116.9
72.5°	483.5	288.7	167.3	132.9	116.9	105.4	98.5	98.5	96.2	96.2	96.2
75°	240.6	197.1	139.8	112.3	98.5	89.4	84.8	80.2	80.2	80.2	80.2
77.5°	167.3	151.2	114.6	89.4	80.2	73.3	73.3	66.5	66.5	66.5	66.5
80°	126.0	119.2	87.1	68.7	61.9	57.3	57.3	55.0	55.0	52.7	52.7
82.5°	89.4	96.2	66.5	50.4	45.8	43.5	43.5	41.2	41.2	36.7	36.7
85°	71.0	80.2	50.4	36.7	34.4	29.8	29.8	27.5	27.5	25.2	22.9
87.5°	20.6	43.5	20.6	13.7	13.7	13.7	13.7	11.5	11.5	9.2	9.2
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)