

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: P676824

Luminaire Tested: **CCW-SA-2B-727-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676824
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-727-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL2 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

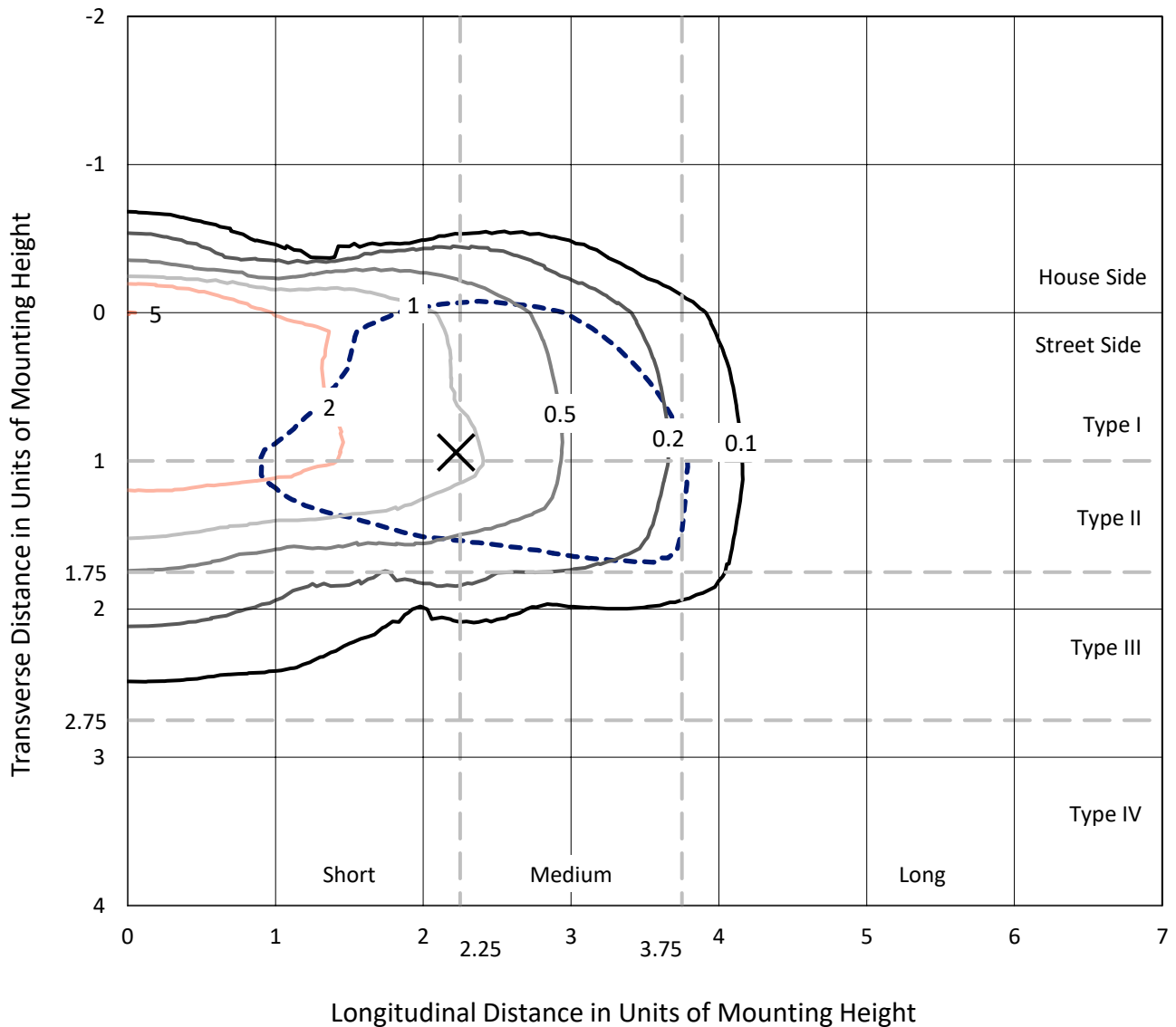
Lumens per Lamp: N/A
Luminaire Lumens: 4644.5 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
Input Voltage (V): 120
Input Current (A_{in}): 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

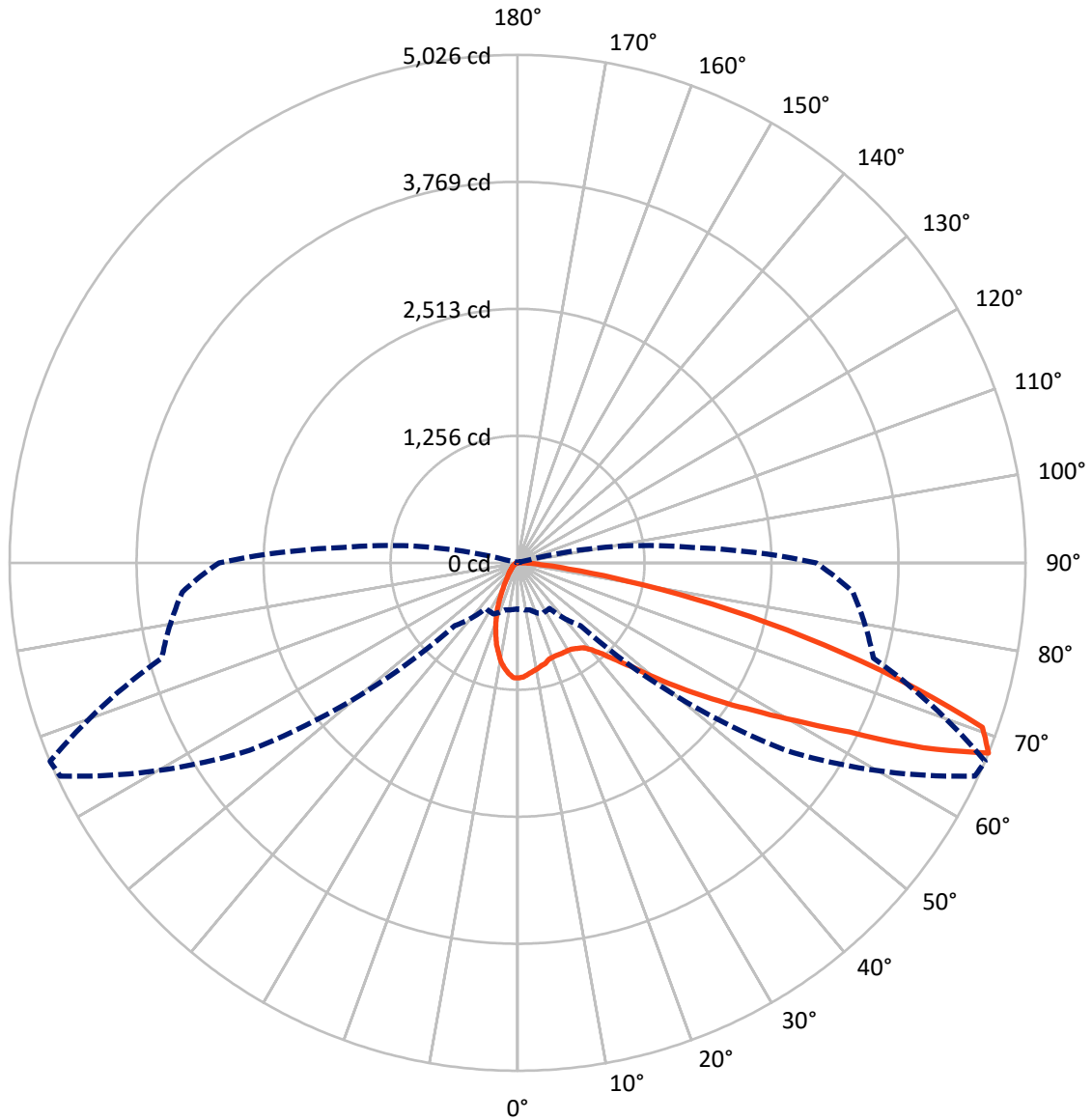
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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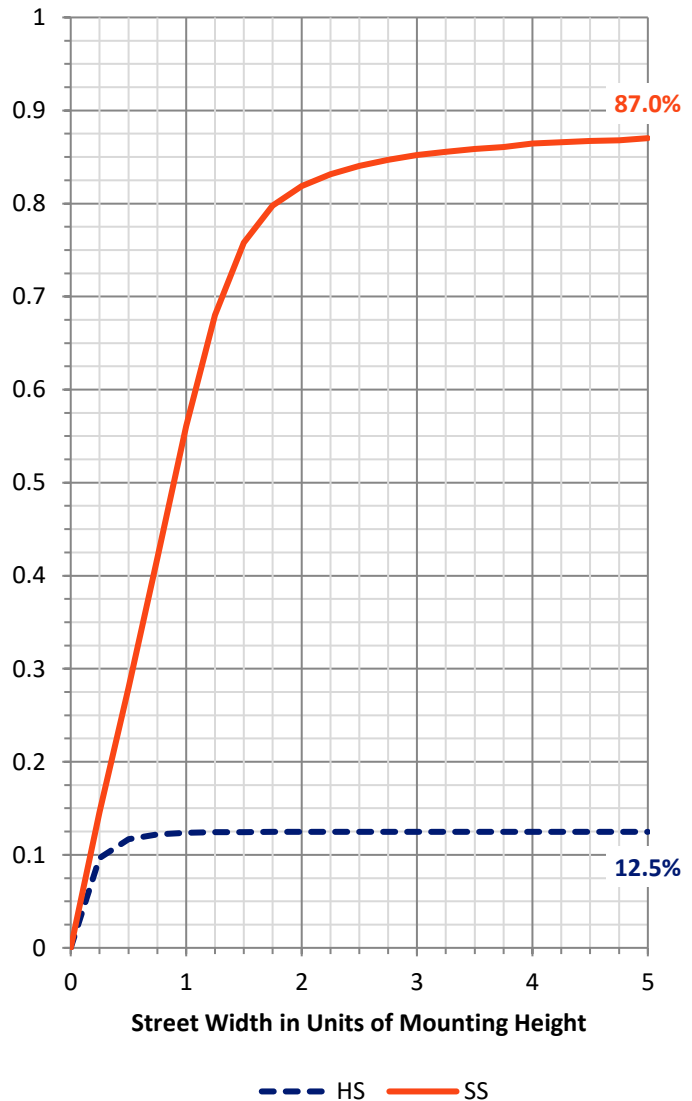
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	584.5	0.0	584.5
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	4060.0	0.0	4060.0
	% Fixture	87.4	0.0	87.4
Total	Lumens	4644.5	0.0	4644.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	2.1
10°-20°	213.2	4.6
20°-30°	303.2	6.5
30°-40°	441.5	9.5
40°-50°	683.3	14.7
50°-60°	1048.7	22.6
60°-70°	1136.8	24.5
70°-80°	641.3	13.8
80°-90°	80.6	1.7
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°	4644.5	100.0
0°-180°	4644.5	100.0

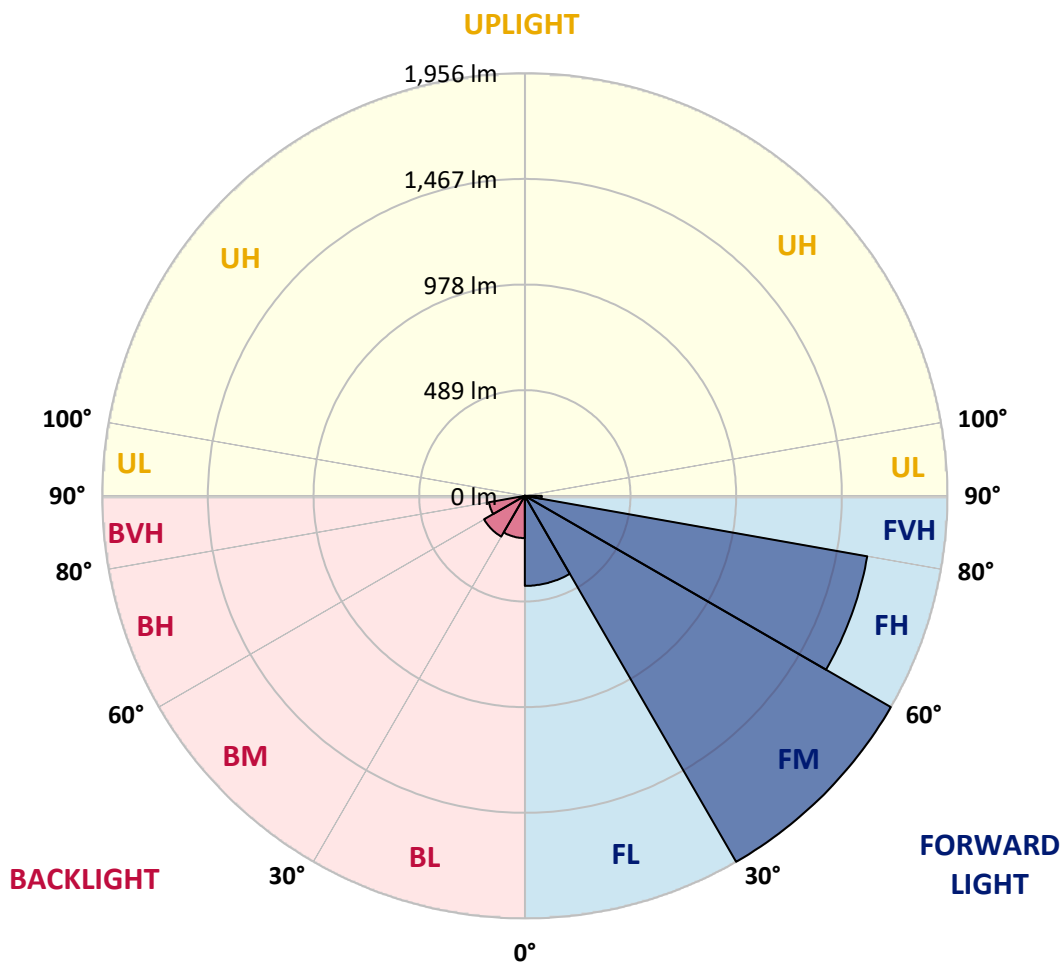


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	416.7	9.0			
FM (30°-60°)	1955.8	42.1			
FH (60°-80°)	1609.2	34.6			G1/1800
FVH (80°-90°)	78.3	1.7			G1/100
BL (0°-30°)	195.7	4.2	B1/500		
BM (30°-60°)	217.7	4.7	B0/220		
BH (60°-80°)	168.8	3.6	B1/500		G1/500
BVH (80°-90°)	2.3	0.0			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2
2.5°	1090.0	1095.6	1103.4	1114.6	1122.4	1118.0	1121.3	1140.3	1130.3	1139.2	1134.7
5°	1029.5	1035.1	1046.3	1045.2	1054.2	1071.0	1093.3	1118.0	1106.8	1133.6	1143.7
7.5°	966.9	964.6	964.6	988.1	1007.2	1030.7	1043.0	1083.3	1084.4	1107.9	1132.5
10°	909.8	916.5	927.7	936.7	954.6	988.1	1024.0	1055.3	1067.6	1114.6	1121.3
12.5°	875.1	878.5	891.9	899.7	923.2	955.7	993.7	1034.0	1044.1	1092.2	1124.7
15°	860.6	868.4	872.9	887.4	899.7	930.0	957.9	1003.8	1032.9	1071.0	1111.2
17.5°	871.8	868.4	870.6	875.1	889.7	916.5	946.7	992.6	1002.7	1066.5	1126.9
20°	886.3	887.4	880.7	878.5	875.1	900.9	925.5	984.8	996.0	1066.5	1137.0
22.5°	925.5	913.2	925.5	907.6	889.7	900.9	924.4	985.9	993.7	1065.4	1147.1
25°	973.6	975.8	979.2	941.1	915.4	907.6	932.2	989.3	996.0	1074.3	1151.5
27.5°	1041.9	1051.9	1035.1	1016.1	964.6	925.5	931.1	987.0	999.3	1069.8	1162.7
30°	1133.6	1125.8	1128.0	1084.4	1034.0	972.5	956.8	992.6	1001.6	1075.4	1184.0
32.5°	1213.1	1204.1	1219.8	1204.1	1124.7	1039.6	987.0	1003.8	1013.9	1088.9	1201.9
35°	1262.3	1273.5	1298.1	1314.9	1247.8	1126.9	1037.4	1034.0	1038.5	1095.6	1215.3
37.5°	1338.4	1358.6	1378.7	1421.2	1363.0	1234.3	1116.8	1073.2	1065.4	1128.0	1222.0
40°	1421.2	1415.6	1474.9	1525.3	1523.1	1385.4	1227.6	1142.6	1131.4	1179.5	1266.8
42.5°	1490.6	1485.0	1551.0	1633.8	1642.8	1530.9	1354.1	1241.1	1231.0	1259.0	1321.6
45°	1581.3	1585.7	1664.1	1762.5	1795.0	1723.4	1525.3	1382.1	1376.5	1367.5	1425.7
47.5°	1661.8	1686.4	1753.6	1870.0	1987.5	1922.6	1726.7	1588.0	1548.8	1528.7	1586.8
50°	1717.8	1740.2	1821.9	1946.1	2160.9	2202.3	1952.8	1807.3	1808.4	1759.2	1790.5
52.5°	1717.8	1716.7	1782.7	1946.1	2281.8	2494.4	2254.9	2083.7	2092.7	2041.2	2043.4
55°	1552.2	1548.8	1629.4	1802.8	2268.4	2775.3	2712.6	2434.0	2411.6	2312.0	2322.1
57.5°	1250.0	1257.8	1319.4	1527.5	2093.8	2906.2	3257.6	2827.9	2751.8	2545.9	2545.9
60°	912.0	905.3	951.2	1096.7	1677.5	2857.0	3705.3	3292.3	3172.6	2739.5	2710.4
62.5°	693.8	692.7	705.0	754.3	1064.2	2491.1	3897.7	3883.2	3688.5	2929.7	2888.3
65°	560.7	562.9	579.7	614.4	650.2	1698.8	3795.9	4588.2	4410.3	3212.9	3077.5
67.5°	457.7	463.3	483.4	558.4	550.6	879.6	3233.0	4992.2	5025.8	3644.8	3331.5
70°	352.5	361.5	385.0	491.3	530.4	585.3	2241.5	4790.8	4880.3	3913.4	3178.2
72.5°	239.5	238.4	288.7	398.4	536.0	536.0	1247.8	3858.6	3943.6	3607.9	2760.8
75°	129.8	137.6	191.4	301.0	491.3	518.1	710.6	2823.4	2943.2	2805.5	2135.2
77.5°	70.5	71.6	106.3	197.0	408.5	494.6	474.5	1920.3	1967.3	1692.0	1169.4
80°	36.9	38.0	56.0	128.7	282.0	458.8	395.0	1144.8	1100.1	649.1	386.1
82.5°	16.8	17.9	28.0	80.6	180.2	361.5	341.3	552.8	510.3	181.3	117.5
85°	6.7	6.7	12.3	48.1	105.2	177.9	292.1	277.5	231.6	54.8	58.2
87.5°	2.2	2.2	3.4	19.0	42.5	106.3	155.6	146.6	100.7	20.1	31.3
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°	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2	1139.2
2.5°	1130.3	1142.6	1139.2	1137.0	1115.7	1113.5	1111.2	1091.1	1097.8	1081.0	1092.2
5°	1137.0	1143.7	1125.8	1092.2	1062.0	1028.4	1002.7	984.8	952.3	940.0	937.8
7.5°	1130.3	1130.3	1093.3	1039.6	980.3	925.5	856.1	806.9	769.9	741.9	752.0
10°	1121.3	1107.9	1069.8	974.7	867.3	784.5	684.9	612.1	557.3	539.4	528.2
12.5°	1121.3	1097.8	1012.8	882.9	744.2	618.8	500.2	405.1	352.5	321.2	316.7
15°	1111.2	1076.5	971.4	796.8	624.4	454.3	318.9	237.2	192.5	180.2	175.7
17.5°	1113.5	1072.1	909.8	694.9	484.6	302.2	194.7	150.0	138.8	133.2	134.3
20°	1118.0	1072.1	855.0	595.3	349.2	188.0	134.3	126.5	120.9	118.6	119.7
22.5°	1132.5	1050.8	799.0	493.5	236.1	135.4	118.6	110.8	106.3	103.0	101.8
25°	1134.7	1047.5	745.3	392.8	162.3	114.1	104.1	95.1	89.5	85.0	83.9
27.5°	1131.4	1032.9	670.3	292.1	122.0	101.8	88.4	79.5	71.6	68.3	67.1
30°	1143.7	1006.0	606.5	210.4	103.0	88.4	75.0	64.9	58.2	53.7	53.7
32.5°	1144.8	982.5	536.0	150.0	94.0	78.3	63.8	52.6	45.9	43.6	43.6
35°	1145.9	961.3	457.7	114.1	83.9	67.1	52.6	43.6	39.2	35.8	35.8
37.5°	1149.3	945.6	386.1	96.2	75.0	57.1	43.6	35.8	31.3	30.2	30.2
40°	1156.0	924.4	311.1	85.0	64.9	48.1	36.9	30.2	25.7	24.6	23.5
42.5°	1173.9	918.8	248.4	76.1	58.2	40.3	30.2	24.6	21.3	19.0	17.9
45°	1247.8	933.3	192.5	70.5	49.2	33.6	25.7	20.1	15.7	14.5	13.4
47.5°	1368.6	981.4	152.2	62.7	41.4	28.0	21.3	15.7	12.3	11.2	10.1
50°	1552.2	1091.1	124.2	56.0	34.7	23.5	16.8	12.3	9.0	7.8	7.8
52.5°	1792.8	1238.8	107.4	49.2	28.0	20.1	13.4	9.0	6.7	5.6	5.6
55°	2039.0	1413.4	100.7	42.5	23.5	16.8	10.1	6.7	4.5	3.4	3.4
57.5°	2265.0	1526.4	97.4	34.7	20.1	12.3	7.8	4.5	2.2	1.1	1.1
60°	2406.0	1609.2	87.3	28.0	15.7	10.1	5.6	2.2	1.1	0.0	0.0
62.5°	2591.8	1693.2	71.6	21.3	11.2	6.7	3.4	1.1	0.0	0.0	0.0
65°	2836.9	1787.2	56.0	16.8	9.0	4.5	2.2	1.1	0.0	0.0	0.0
67.5°	2954.4	1737.9	38.0	12.3	5.6	2.2	1.1	0.0	0.0	0.0	0.0
70°	2719.4	1463.7	26.9	9.0	3.4	1.1	1.1	0.0	0.0	0.0	0.0
72.5°	2286.3	1147.1	20.1	5.6	2.2	1.1	0.0	0.0	0.0	0.0	0.0
75°	1685.3	717.3	15.7	4.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	894.1	267.5	11.2	3.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	264.1	78.3	7.8	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	87.3	23.5	4.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.8	9.0	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.7	3.4	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
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)