

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: P675447

Luminaire Tested: **CCW-SA-1E-827-U-SL2**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675447
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-827-U-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SL2 distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

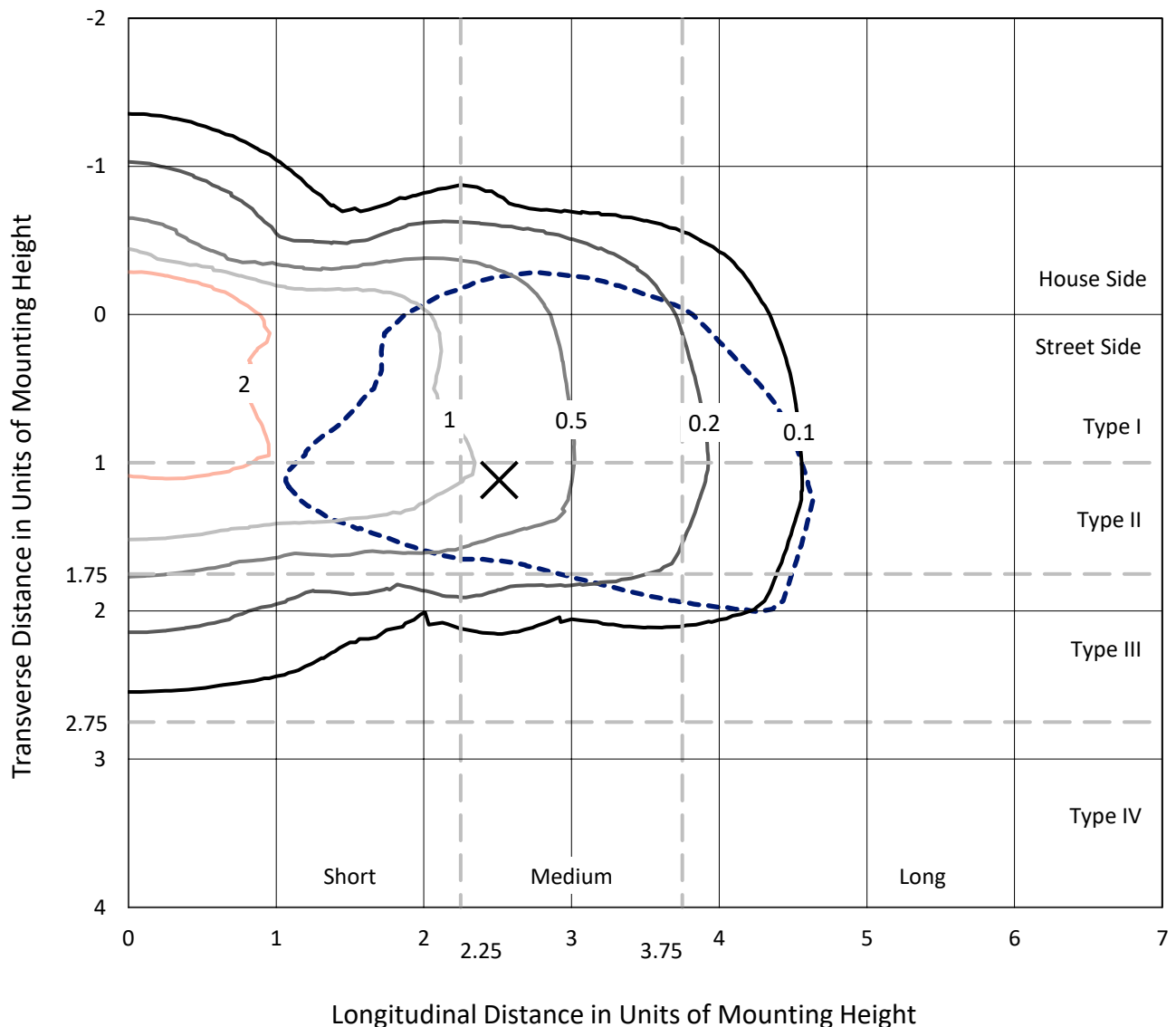
Lumens per Lamp: N/A
Luminaire Lumens: 4974.2 lumens
Efficiency: N/A
Efficacy: 88.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

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

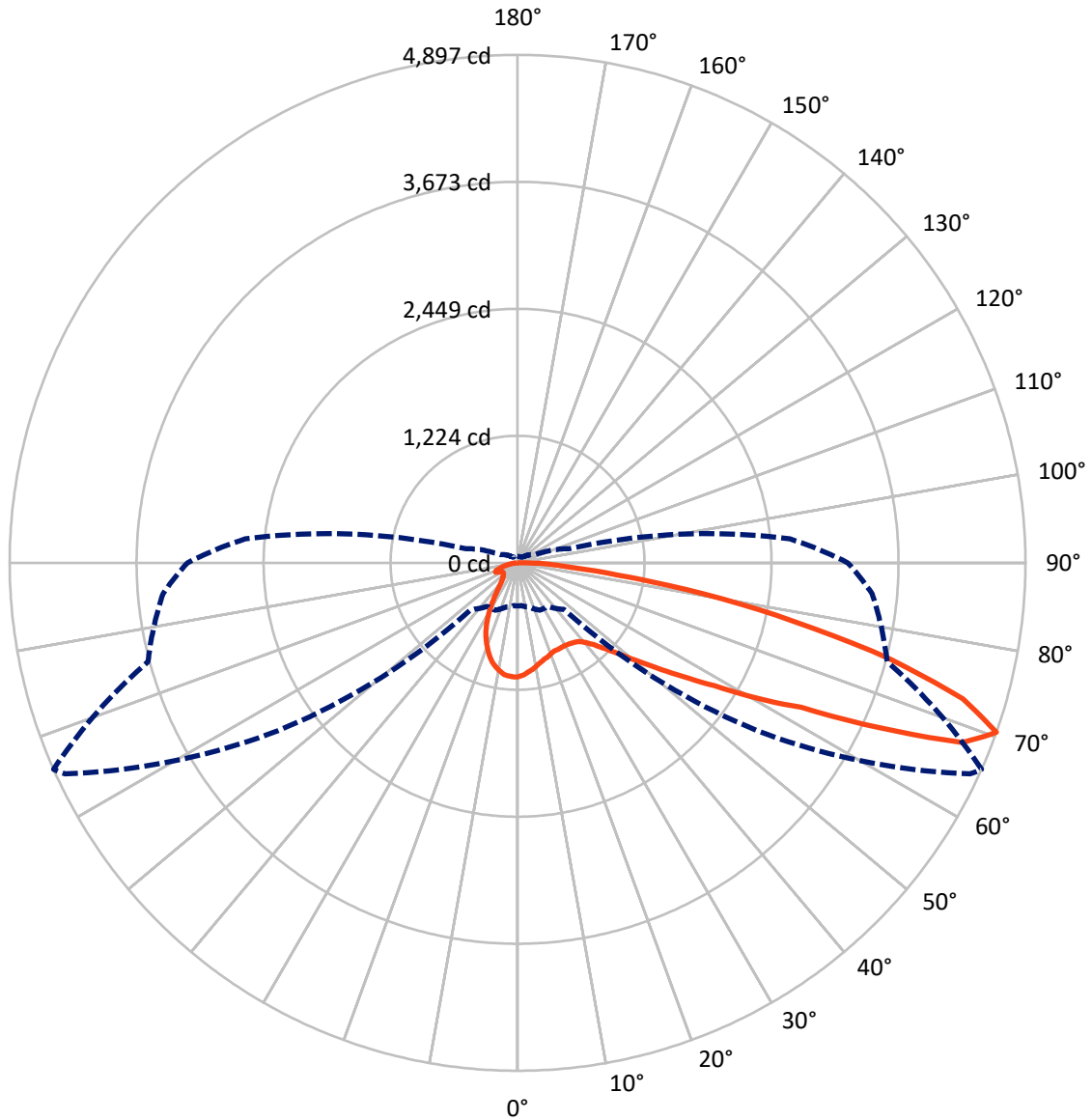
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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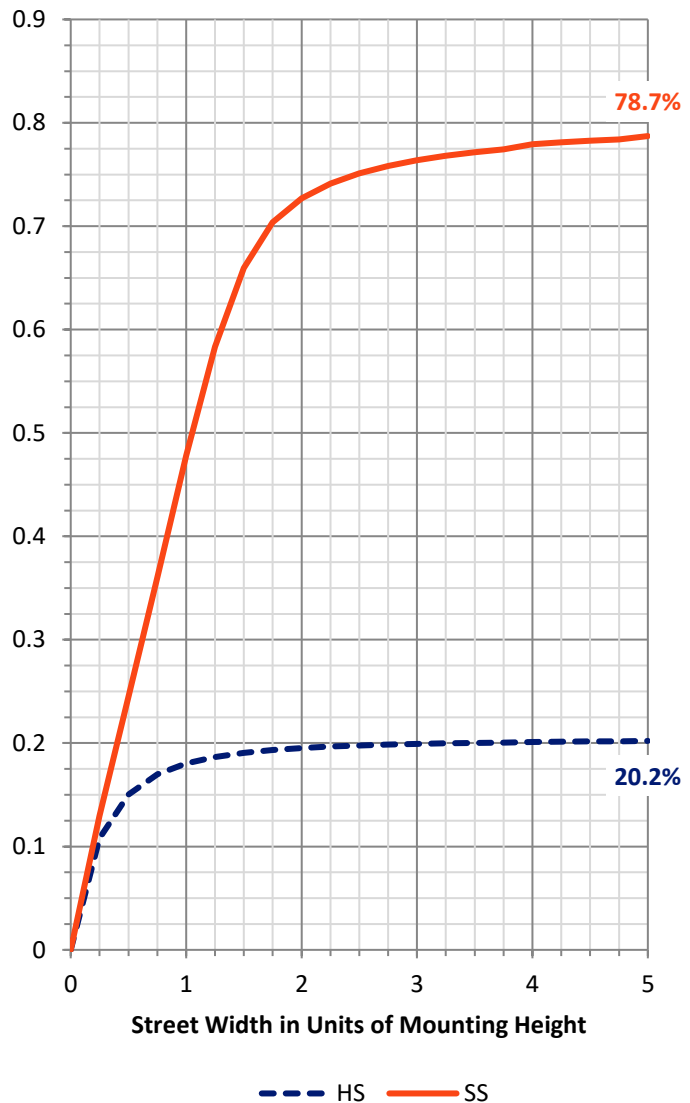
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1018.2	0.0	1018.2
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	3956.0	0.0	3956.0
	% Fixture	79.5	0.0	79.5
Total	Lumens	4974.2	0.0	4974.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.2	2.0
10°-20°	239.2	4.8
20°-30°	328.5	6.6
30°-40°	440.5	8.9
40°-50°	639.1	12.8
50°-60°	971.4	19.5
60°-70°	1199.7	24.1
70°-80°	892.2	17.9
80°-90°	166.4	3.3
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°	4974.2	100.0
0°-180°	4974.2	100.0

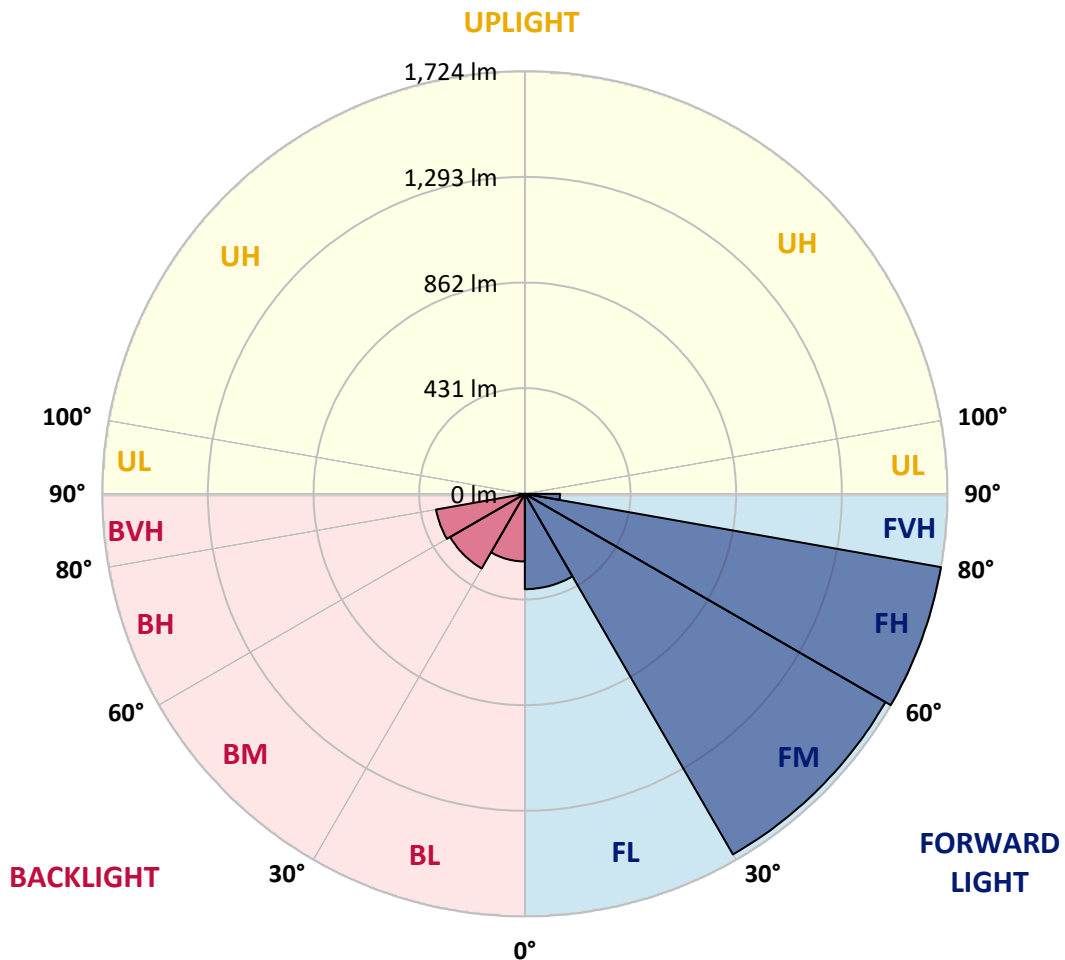


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	388.9	7.8			
FM (30°-60°)	1699.2	34.2			
FH (60°-80°)	1724.4	34.7			G1/1800
FVH (80°-90°)	143.5	2.9			G2/225
BL (0°-30°)	275.9	5.5	B1/500		
BM (30°-60°)	351.7	7.1	B1/1000		
BH (60°-80°)	367.6	7.4	B1/500		G1/500
BVH (80°-90°)	23.0	0.5			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1098.9	1098.9	1098.9	1098.9	1098.9	1098.9	1098.9	1098.9	1098.9	1098.9	1098.9
2.5°	1045.3	1050.8	1052.7	1056.4	1065.6	1073.0	1084.1	1089.7	1084.1	1091.5	1091.5
5°	973.1	965.7	984.2	991.6	1002.7	1017.5	1043.4	1063.8	1058.2	1080.4	1098.9
7.5°	912.1	912.1	917.6	934.3	947.2	969.4	997.2	1028.6	1037.9	1067.5	1095.2
10°	856.6	864.0	864.0	889.9	897.3	923.2	969.4	1008.3	1010.1	1060.1	1098.9
12.5°	827.0	823.3	841.8	849.2	871.4	897.3	934.3	982.4	984.2	1037.9	1091.5
15°	802.9	806.6	815.9	834.4	854.7	875.1	910.2	954.6	963.9	1026.8	1087.8
17.5°	804.8	806.6	806.6	819.6	836.2	860.3	893.6	945.4	950.9	1012.0	1082.3
20°	815.9	808.5	814.0	819.6	830.7	852.9	880.6	925.0	930.6	1010.1	1095.2
22.5°	839.9	834.4	832.5	830.7	828.8	841.8	876.9	913.9	919.5	1000.9	1100.8
25°	878.8	876.9	864.0	851.0	841.8	841.8	869.5	923.2	921.3	1000.9	1104.5
27.5°	925.0	925.0	923.2	899.1	871.4	856.6	875.1	919.5	917.6	1000.9	1113.7
30°	987.9	987.9	982.4	960.2	910.2	867.7	878.8	915.8	921.3	993.5	1106.3
32.5°	1056.4	1054.5	1060.1	1039.7	987.9	919.5	901.0	923.2	928.7	1000.9	1108.2
35°	1106.3	1117.4	1135.9	1117.4	1065.6	973.1	932.4	938.0	941.7	1002.7	1115.6
37.5°	1163.7	1176.6	1202.5	1217.3	1161.8	1054.5	982.4	962.0	962.0	1026.8	1117.4
40°	1246.9	1234.0	1278.4	1304.3	1282.1	1154.4	1060.1	1006.4	1008.3	1058.2	1141.5
42.5°	1308.0	1320.9	1367.2	1413.4	1385.7	1276.5	1145.2	1078.6	1078.6	1104.5	1178.5
45°	1376.4	1391.2	1456.0	1511.5	1531.8	1422.7	1261.7	1182.2	1178.5	1195.1	1245.1
47.5°	1452.3	1472.6	1546.6	1611.4	1665.0	1574.4	1411.6	1308.0	1306.1	1319.1	1356.1
50°	1539.2	1546.6	1607.7	1726.1	1833.4	1776.0	1594.7	1485.6	1476.3	1481.9	1531.8
52.5°	1565.1	1559.6	1629.9	1757.5	1953.7	2022.1	1844.5	1687.2	1683.5	1670.6	1735.3
55°	1470.8	1489.3	1557.7	1720.5	2051.7	2312.6	2118.3	1962.9	1929.6	1894.4	1972.2
57.5°	1282.1	1283.9	1361.6	1554.0	1975.9	2553.1	2582.7	2233.0	2234.9	2140.5	2229.3
60°	997.2	991.6	1052.7	1226.6	1759.4	2627.1	3089.6	2664.1	2645.6	2386.6	2468.0
62.5°	719.7	708.6	721.5	823.3	1315.4	2514.2	3587.2	3146.9	3069.2	2638.2	2701.1
65°	592.0	597.6	603.1	608.7	738.2	2073.9	3740.8	3935.1	3831.4	2932.3	2958.2
67.5°	490.3	494.0	518.0	551.3	547.6	1224.7	3563.2	4664.0	4625.1	3296.8	3180.2
70°	416.3	414.4	442.2	503.2	512.5	636.4	2821.3	4813.8	4897.1	3689.0	3431.8
72.5°	333.0	336.7	360.8	442.2	503.2	536.5	1624.3	4491.9	4490.1	3990.6	3296.8
75°	238.7	238.7	272.0	366.3	486.6	531.0	899.1	3646.4	3714.9	3750.0	2860.2
77.5°	157.3	164.7	190.6	273.8	457.0	519.9	569.8	2651.1	2736.2	2804.7	2188.6
80°	107.3	111.0	127.7	190.6	386.7	523.6	466.2	1783.4	1816.7	1548.5	888.0
82.5°	64.8	66.6	85.1	133.2	277.5	497.7	438.5	984.2	963.9	468.1	255.3
85°	35.2	37.0	53.7	88.8	183.2	434.8	431.1	482.9	449.6	172.1	107.3
87.5°	13.0	13.0	24.1	44.4	105.5	297.9	375.6	286.8	268.3	87.0	50.0
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°	1098.9	1098.9	1098.9	1098.9	1098.9	1098.9	1098.9	1098.9	1098.9	1098.9	1098.9
2.5°	1100.8	1100.8	1100.8	1100.8	1098.9	1091.5	1097.1	1095.2	1084.1	1086.0	1078.6
5°	1097.1	1106.3	1100.8	1093.4	1084.1	1061.9	1054.5	1049.0	1034.2	1028.6	1034.2
7.5°	1106.3	1098.9	1095.2	1082.3	1045.3	1024.9	999.0	967.6	945.4	939.8	945.4
10°	1104.5	1104.5	1087.8	1050.8	1015.7	956.5	923.2	867.7	836.2	827.0	828.8
12.5°	1097.1	1102.6	1076.7	1017.5	950.9	878.8	817.7	758.5	703.0	680.8	677.1
15°	1104.5	1098.9	1052.7	976.8	884.3	784.4	695.6	608.7	556.9	523.6	516.2
17.5°	1093.4	1087.8	1021.2	921.3	797.4	669.7	558.7	464.4	412.6	399.6	399.6
20°	1106.3	1071.2	984.2	854.7	706.7	543.9	418.1	347.8	334.9	334.9	338.6
22.5°	1104.5	1067.5	952.8	790.0	597.6	410.7	310.8	290.5	292.3	307.1	305.3
25°	1093.4	1060.1	908.4	717.8	482.9	309.0	257.2	251.6	264.6	281.2	279.4
27.5°	1091.5	1039.7	867.7	632.7	368.2	244.2	223.9	223.9	236.8	251.6	249.8
30°	1080.4	1023.1	817.7	536.5	277.5	212.8	205.4	205.4	210.9	218.3	218.3
32.5°	1078.6	1000.9	762.2	436.6	222.0	192.4	188.7	190.6	190.6	194.3	192.4
35°	1063.8	971.3	704.9	338.6	192.4	181.3	177.6	175.8	175.8	173.9	173.9
37.5°	1058.2	952.8	645.7	262.7	179.5	172.1	168.4	162.8	161.0	161.0	159.1
40°	1063.8	934.3	588.3	212.8	168.4	164.7	159.1	151.7	149.9	149.9	149.9
42.5°	1084.1	932.4	529.1	185.0	162.8	157.3	149.9	142.5	140.6	142.5	140.6
45°	1130.4	947.2	471.8	172.1	155.4	149.9	140.6	135.1	133.2	135.1	135.1
47.5°	1206.2	987.9	420.0	164.7	149.9	142.5	133.2	127.7	127.7	127.7	127.7
50°	1332.0	1065.6	370.0	159.1	146.2	136.9	127.7	120.3	118.4	118.4	120.3
52.5°	1520.7	1198.8	329.3	155.4	140.6	129.5	120.3	114.7	111.0	109.2	111.0
55°	1748.3	1393.1	316.4	151.7	133.2	124.0	114.7	107.3	103.6	103.6	101.8
57.5°	1992.5	1607.7	338.6	148.0	127.7	116.6	107.3	99.9	96.2	94.4	94.4
60°	2257.1	1861.1	420.0	146.2	122.1	109.2	99.9	94.4	88.8	87.0	87.0
62.5°	2497.6	2090.6	566.1	144.3	118.4	101.8	92.5	85.1	81.4	79.6	79.6
65°	2771.4	2345.9	708.6	151.7	116.6	96.2	85.1	77.7	74.0	72.2	72.2
67.5°	3010.0	2567.9	791.8	170.2	122.1	88.8	75.9	70.3	68.5	66.6	66.6
70°	3183.9	2636.3	531.0	186.9	131.4	83.3	68.5	64.8	61.1	61.1	61.1
72.5°	2950.8	2353.3	314.5	175.8	124.0	77.7	61.1	57.4	55.5	55.5	53.7
75°	2523.5	2003.6	242.4	142.5	99.9	66.6	53.7	50.0	48.1	48.1	46.3
77.5°	1863.0	1435.6	179.5	112.9	77.7	53.7	46.3	44.4	42.6	40.7	40.7
80°	728.9	629.0	122.1	83.3	57.4	42.6	38.9	37.0	35.2	33.3	33.3
82.5°	225.7	190.6	70.3	55.5	40.7	33.3	31.5	29.6	27.8	25.9	25.9
85°	98.1	94.4	46.3	35.2	27.8	22.2	22.2	20.4	18.5	16.7	16.7
87.5°	48.1	46.3	25.9	16.7	14.8	11.1	11.1	9.3	7.4	7.4	7.4
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)