

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: P676821

Luminaire Tested: **CCW-SA-1E-727-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676821
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-727-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SL2 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

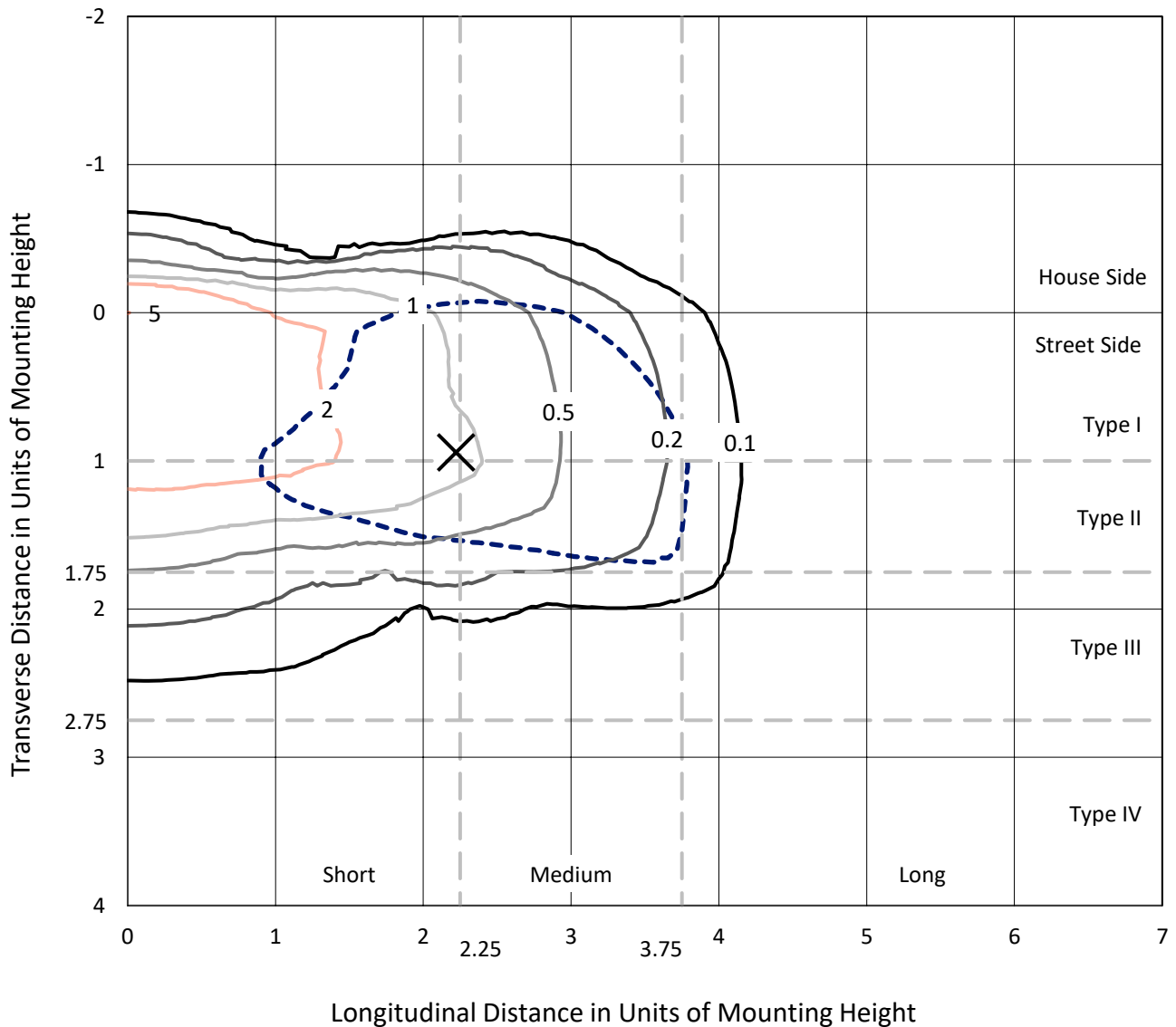
Lumens per Lamp: N/A
Luminaire Lumens: 4598 lumens
Efficiency: N/A
Efficacy: 82.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1
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

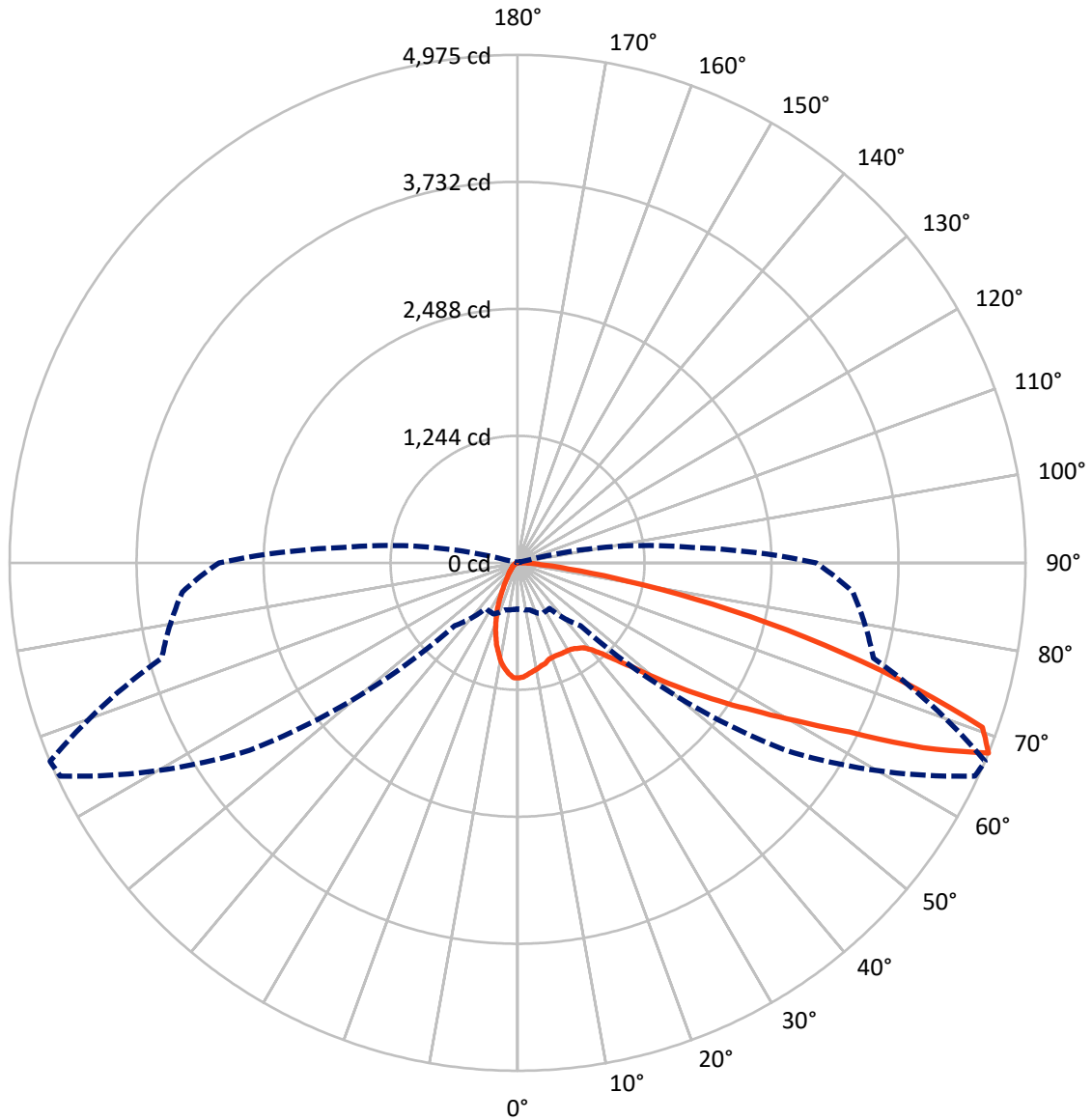
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5 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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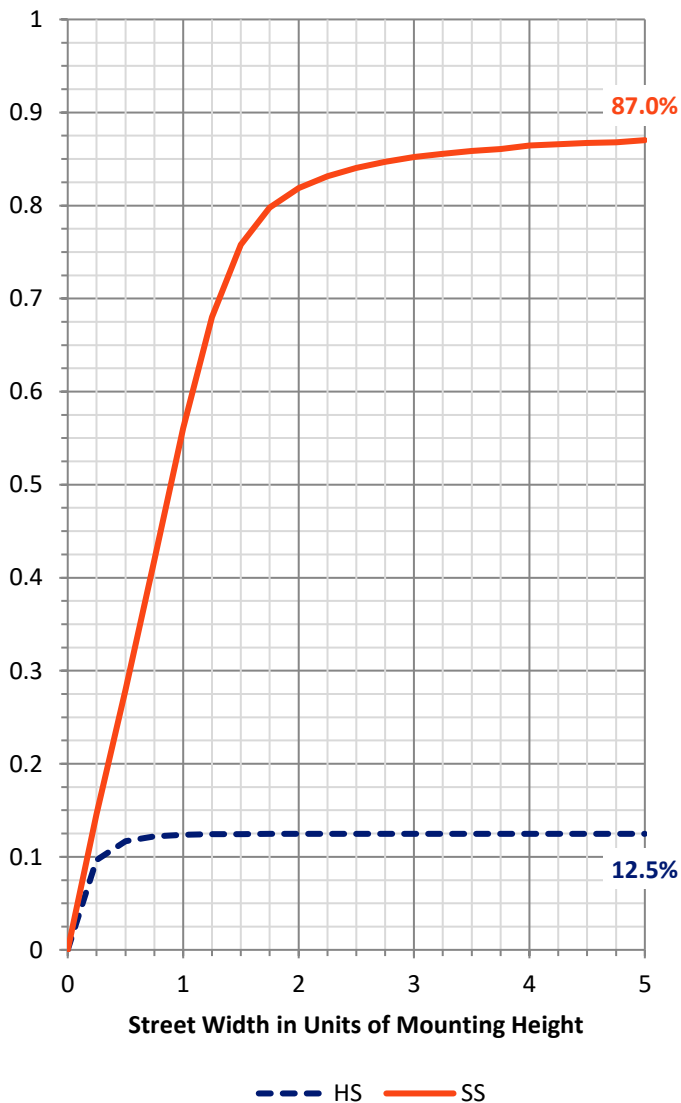
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	578.7	0.0	578.7
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	4019.3	0.0	4019.3
	% Fixture	87.4	0.0	87.4
Total	Lumens	4598.0	0.0	4598.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.0	2.1
10°-20°	211.1	4.6
20°-30°	300.2	6.5
30°-40°	437.1	9.5
40°-50°	676.5	14.7
50°-60°	1038.2	22.6
60°-70°	1125.4	24.5
70°-80°	634.9	13.8
80°-90°	79.8	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°	4598.0	100.0
0°-180°	4598.0	100.0

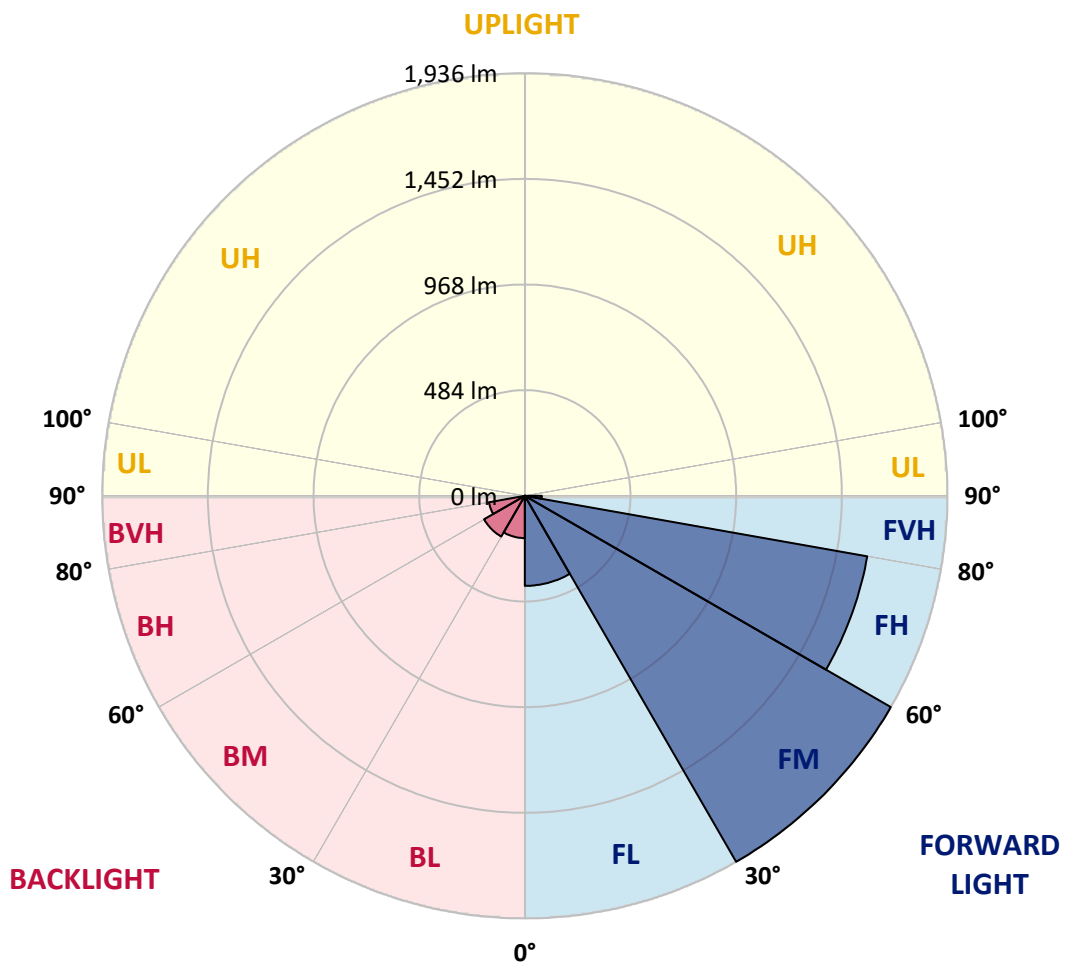


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	412.6	9.0			
FM (30°-60°)	1936.2	42.1			
FH (60°-80°)	1593.1	34.6			G1/1800
FVH (80°-90°)	77.5	1.7			G1/100
BL (0°-30°)	193.7	4.2	B1/500		
BM (30°-60°)	215.5	4.7	B0/220		
BH (60°-80°)	167.1	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°	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8
2.5°	1079.1	1084.6	1092.4	1103.4	1111.2	1106.8	1110.1	1128.9	1118.9	1127.8	1123.4
5°	1019.2	1024.8	1035.9	1034.7	1043.6	1060.2	1082.4	1106.8	1095.7	1122.3	1132.2
7.5°	957.2	955.0	955.0	978.2	997.1	1020.3	1032.5	1072.4	1073.5	1096.8	1121.2
10°	900.7	907.3	918.4	927.3	945.0	978.2	1013.7	1044.7	1056.9	1103.4	1110.1
12.5°	866.4	869.7	883.0	890.7	914.0	946.1	983.8	1023.7	1033.6	1081.3	1113.4
15°	851.9	859.7	864.1	878.5	890.7	920.6	948.3	993.8	1022.6	1060.2	1100.1
17.5°	863.0	859.7	861.9	866.4	880.8	907.3	937.3	982.7	992.6	1055.8	1115.6
20°	877.4	878.5	871.9	869.7	866.4	891.8	916.2	974.9	986.0	1055.8	1125.6
22.5°	916.2	904.0	916.2	898.5	880.8	891.8	915.1	976.0	983.8	1054.7	1135.6
25°	963.8	966.1	969.4	931.7	906.2	898.5	922.9	979.4	986.0	1063.6	1140.0
27.5°	1031.4	1041.4	1024.8	1005.9	955.0	916.2	921.7	977.1	989.3	1059.1	1151.1
30°	1122.3	1114.5	1116.7	1073.5	1023.7	962.7	947.2	982.7	991.5	1064.7	1172.1
32.5°	1200.9	1192.1	1207.6	1192.1	1113.4	1029.2	977.1	993.8	1003.7	1078.0	1189.8
35°	1249.7	1260.8	1285.1	1301.7	1235.3	1115.6	1027.0	1023.7	1028.1	1084.6	1203.1
37.5°	1325.0	1344.9	1364.9	1407.0	1349.4	1222.0	1105.7	1062.4	1054.7	1116.7	1209.8
40°	1407.0	1401.5	1460.2	1510.0	1507.8	1371.5	1215.3	1131.1	1120.1	1167.7	1254.1
42.5°	1475.7	1470.1	1535.5	1617.5	1626.3	1515.6	1340.5	1228.6	1218.7	1246.3	1308.4
45°	1565.4	1569.8	1647.4	1744.9	1777.0	1706.1	1510.0	1368.2	1362.7	1353.8	1411.4
47.5°	1645.2	1669.6	1736.0	1851.2	1967.6	1903.3	1709.4	1572.1	1533.3	1513.3	1571.0
50°	1700.6	1722.7	1803.6	1926.6	2139.3	2180.3	1933.2	1789.2	1790.3	1741.6	1772.6
52.5°	1700.6	1699.5	1764.8	1926.6	2258.9	2469.4	2232.4	2062.8	2071.7	2020.7	2023.0
55°	1536.6	1533.3	1613.1	1784.8	2245.6	2747.5	2685.5	2409.6	2387.5	2288.9	2298.8
57.5°	1237.5	1245.2	1306.2	1512.2	2072.8	2877.1	3225.0	2799.6	2724.2	2520.4	2520.4
60°	902.9	896.3	941.7	1085.7	1660.7	2828.4	3668.1	3259.3	3140.8	2712.1	2683.3
62.5°	686.9	685.8	698.0	746.7	1053.6	2466.1	3858.7	3844.3	3651.5	2900.4	2859.4
65°	555.0	557.3	573.9	608.2	643.7	1681.7	3757.9	4542.3	4366.1	3180.7	3046.6
67.5°	453.1	458.7	478.6	552.8	545.1	870.8	3200.6	4942.2	4975.4	3608.3	3298.1
70°	349.0	357.8	381.1	486.4	525.1	579.4	2219.1	4742.8	4831.4	3874.2	3146.3
72.5°	237.1	236.0	285.8	394.4	530.7	530.7	1235.3	3819.9	3904.1	3571.8	2733.1
75°	128.5	136.3	189.4	298.0	486.4	512.9	703.5	2795.1	2913.7	2777.4	2113.8
77.5°	69.8	70.9	105.2	195.0	404.4	489.7	469.7	1901.1	1947.6	1675.1	1157.7
80°	36.6	37.7	55.4	127.4	279.2	454.2	391.1	1133.3	1089.0	642.6	382.2
82.5°	16.6	17.7	27.7	79.8	178.4	357.8	337.9	547.3	505.2	179.5	116.3
85°	6.6	6.6	12.2	47.6	104.1	176.2	289.2	274.8	229.3	54.3	57.6
87.5°	2.2	2.2	3.3	18.8	42.1	105.2	154.0	145.1	99.7	19.9	31.0
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°	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8	1127.8
2.5°	1118.9	1131.1	1127.8	1125.6	1104.5	1102.3	1100.1	1080.2	1086.8	1070.2	1081.3
5°	1125.6	1132.2	1114.5	1081.3	1051.4	1018.1	992.6	974.9	942.8	930.6	928.4
7.5°	1118.9	1118.9	1082.4	1029.2	970.5	916.2	847.5	798.8	762.2	734.5	744.5
10°	1110.1	1096.8	1059.1	965.0	858.6	776.6	678.0	606.0	551.7	534.0	522.9
12.5°	1110.1	1086.8	1002.6	874.1	736.7	612.6	495.2	401.0	349.0	318.0	313.5
15°	1100.1	1065.8	961.6	788.8	618.2	449.8	315.7	234.9	190.6	178.4	173.9
17.5°	1102.3	1061.3	900.7	688.0	479.7	299.1	192.8	148.5	137.4	131.8	132.9
20°	1106.8	1061.3	846.4	589.4	345.7	186.1	132.9	125.2	119.6	117.4	118.5
22.5°	1121.2	1040.3	791.0	488.6	233.8	134.1	117.4	109.7	105.2	101.9	100.8
25°	1123.4	1037.0	737.8	388.9	160.6	113.0	103.0	94.2	88.6	84.2	83.1
27.5°	1120.1	1022.6	663.6	289.2	120.8	100.8	87.5	78.7	70.9	67.6	66.5
30°	1132.2	996.0	600.5	208.3	101.9	87.5	74.2	64.3	57.6	53.2	53.2
32.5°	1133.3	972.7	530.7	148.5	93.1	77.6	63.1	52.1	45.4	43.2	43.2
35°	1134.5	951.7	453.1	113.0	83.1	66.5	52.1	43.2	38.8	35.5	35.5
37.5°	1137.8	936.1	382.2	95.3	74.2	56.5	43.2	35.5	31.0	29.9	29.9
40°	1144.4	915.1	308.0	84.2	64.3	47.6	36.6	29.9	25.5	24.4	23.3
42.5°	1162.2	909.6	245.9	75.3	57.6	39.9	29.9	24.4	21.0	18.8	17.7
45°	1235.3	924.0	190.6	69.8	48.7	33.2	25.5	19.9	15.5	14.4	13.3
47.5°	1354.9	971.6	150.7	62.0	41.0	27.7	21.0	15.5	12.2	11.1	10.0
50°	1536.6	1080.2	123.0	55.4	34.3	23.3	16.6	12.2	8.9	7.8	7.8
52.5°	1774.8	1226.4	106.4	48.7	27.7	19.9	13.3	8.9	6.6	5.5	5.5
55°	2018.5	1399.2	99.7	42.1	23.3	16.6	10.0	6.6	4.4	3.3	3.3
57.5°	2242.3	1511.1	96.4	34.3	19.9	12.2	7.8	4.4	2.2	1.1	1.1
60°	2381.9	1593.1	86.4	27.7	15.5	10.0	5.5	2.2	1.1	0.0	0.0
62.5°	2565.8	1676.2	70.9	21.0	11.1	6.6	3.3	1.1	0.0	0.0	0.0
65°	2808.4	1769.3	55.4	16.6	8.9	4.4	2.2	1.1	0.0	0.0	0.0
67.5°	2924.8	1720.5	37.7	12.2	5.5	2.2	1.1	0.0	0.0	0.0	0.0
70°	2692.1	1449.1	26.6	8.9	3.3	1.1	1.1	0.0	0.0	0.0	0.0
72.5°	2263.4	1135.6	19.9	5.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0
75°	1668.4	710.1	15.5	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	885.2	264.8	11.1	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	261.5	77.6	7.8	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	86.4	23.3	4.4	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	44.3	8.9	2.2	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.5	3.3	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)