

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: P675672

Luminaire Tested: **CCW-SA-2B-727-U-SL4**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675672  
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-SL4  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
SL4 distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

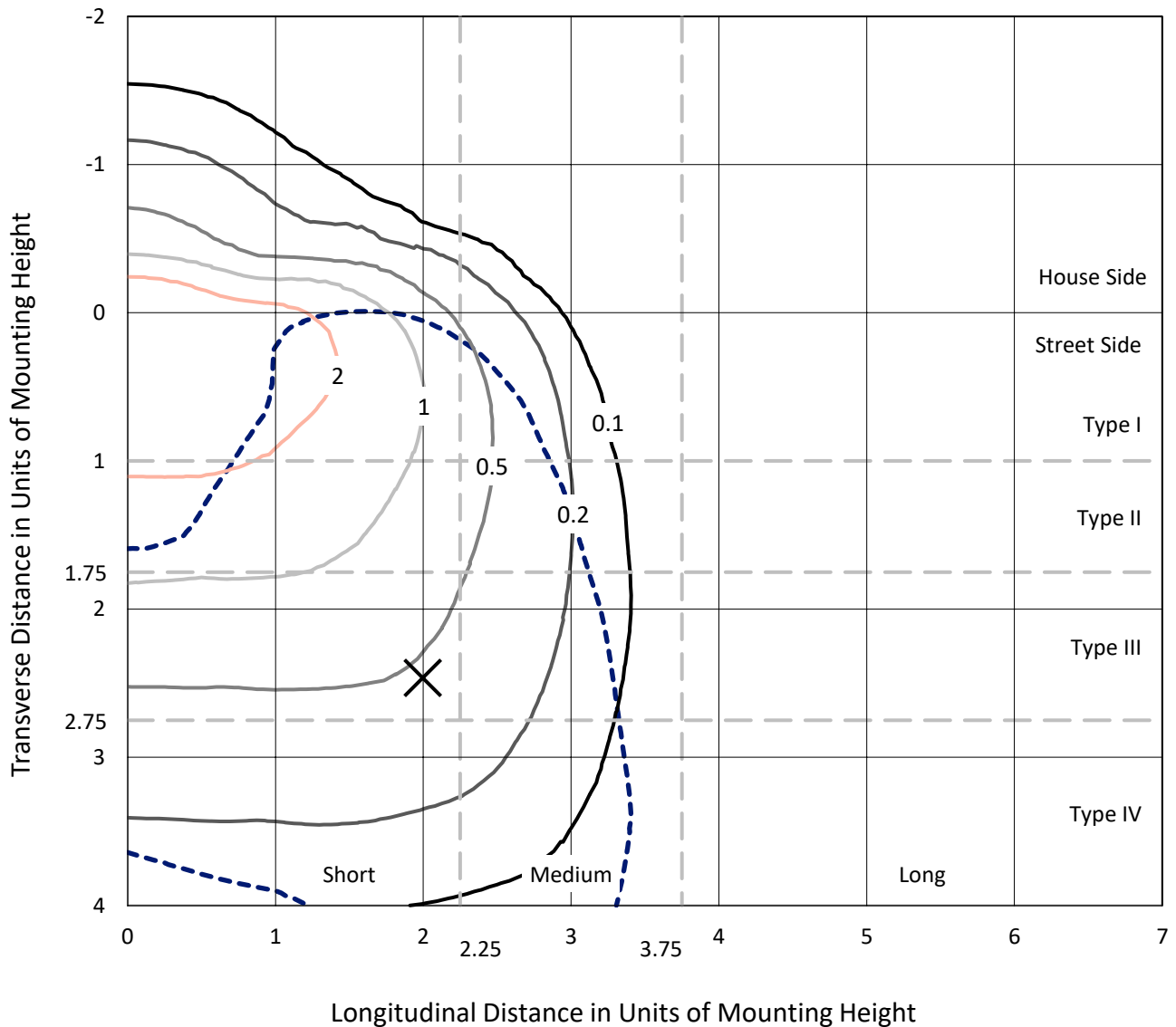
Lumens per Lamp: N/A  
Luminaire Lumens: 5659.7 lumens  
Efficiency: N/A  
Efficacy: 123.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

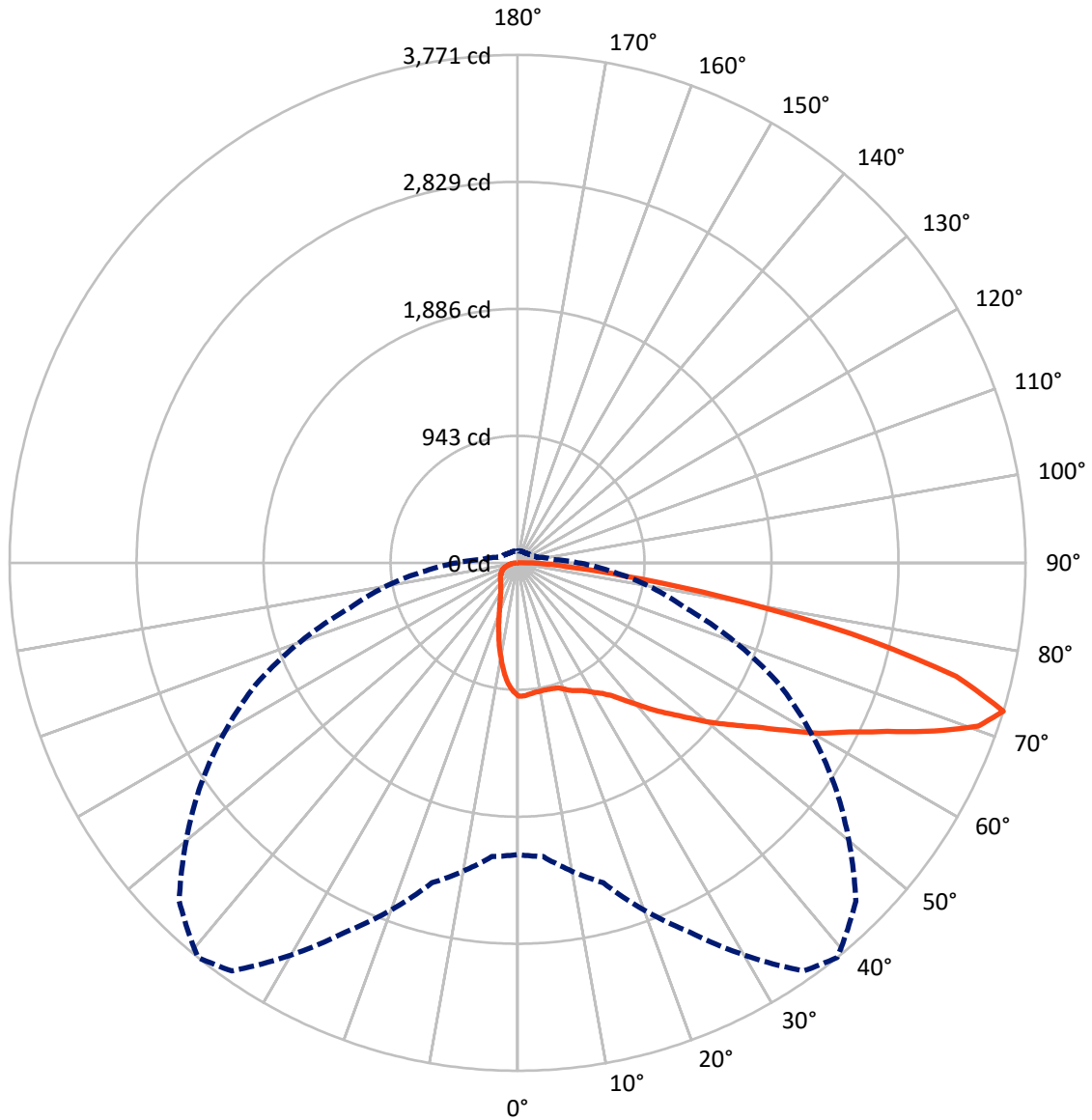
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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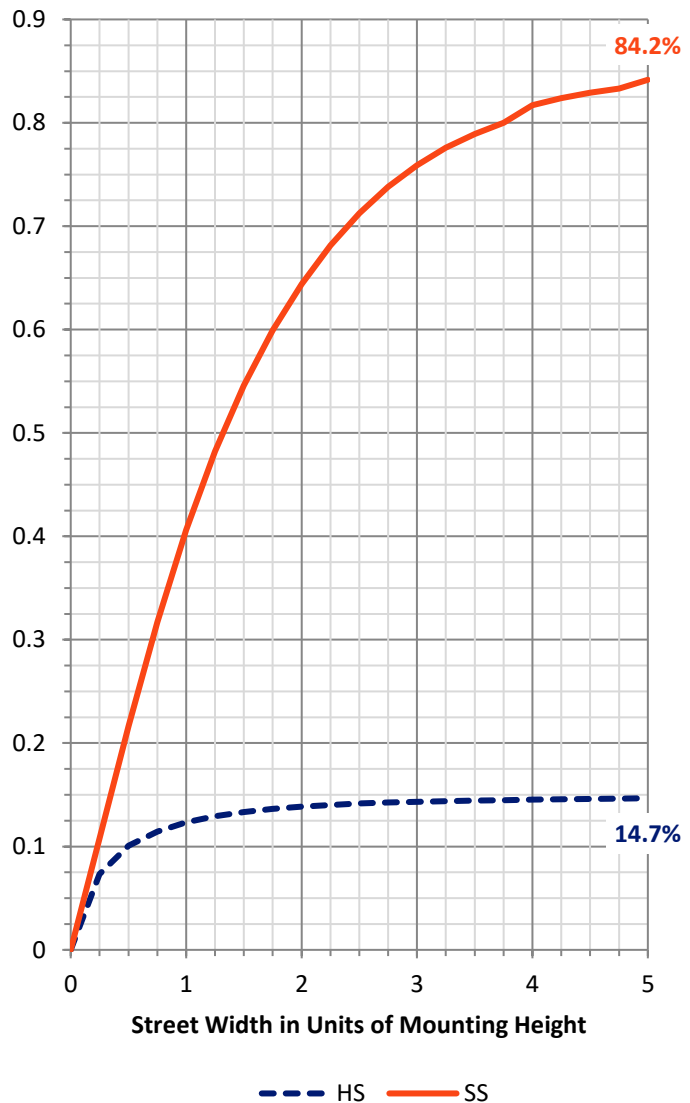
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	841.1	0.0	841.1
	% Fixture	14.9	0.0	14.9
<b>Street Side</b>	Lumens	4818.5	0.0	4818.5
	% Fixture	85.1	0.0	85.1
<b>Total</b>	Lumens	5659.7	0.0	5659.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	87.5	1.5
10°-20°	223.4	3.9
20°-30°	340.4	6.0
30°-40°	497.9	8.8
40°-50°	762.3	13.5
50°-60°	1118.1	19.8
60°-70°	1425.9	25.2
70°-80°	1030.3	18.2
80°-90°	173.8	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°	5659.7	100.0
0°-180°	5659.7	100.0

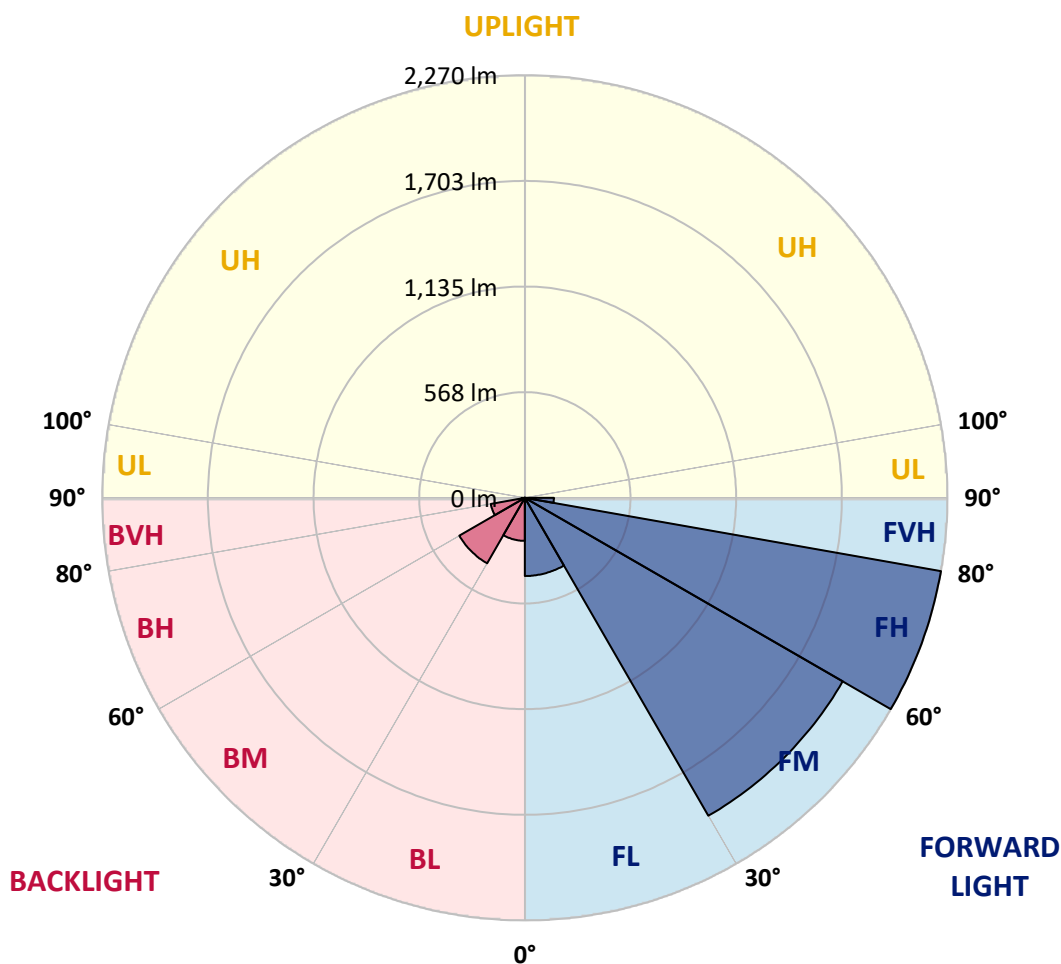


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	420.0	7.4			
FM (30°-60°)	1972.0	34.8			
FH (60°-80°)	2270.3	40.1			G2/5000
FVH (80°-90°)	156.2	2.8			G2/225
BL (0°-30°)	231.3	4.1	B1/500		
BM (30°-60°)	406.4	7.2	B1/1000		
BH (60°-80°)	185.9	3.3	B1/500		G1/500
BVH (80°-90°)	17.6	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°	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7
2.5°	1005.6	1007.7	1003.5	999.2	997.1	988.6	997.1	992.8	988.6	988.6	988.6
5°	992.8	994.9	994.9	990.7	992.8	977.9	975.8	977.9	971.6	967.3	965.2
7.5°	973.7	977.9	986.4	984.3	975.8	969.4	971.6	969.4	958.8	952.4	935.4
10°	958.8	963.1	967.3	971.6	969.4	967.3	965.2	956.7	954.6	939.7	922.7
12.5°	943.9	943.9	946.1	963.1	965.2	965.2	952.4	952.4	946.1	943.9	918.4
15°	929.0	935.4	952.4	956.7	965.2	969.4	963.1	963.1	952.4	937.5	918.4
17.5°	933.3	943.9	960.9	971.6	975.8	975.8	984.3	977.9	963.1	954.6	935.4
20°	954.6	956.7	977.9	997.1	1001.3	1001.3	992.8	986.4	975.8	960.9	935.4
22.5°	967.3	982.2	1007.7	1018.3	1031.1	1031.1	1020.5	1005.6	990.7	975.8	948.2
25°	1022.6	1024.7	1035.3	1052.3	1058.7	1050.2	1039.6	1022.6	1003.5	988.6	963.1
27.5°	1060.9	1071.5	1084.2	1092.7	1082.1	1075.7	1067.2	1048.1	1033.2	1020.5	984.3
30°	1131.0	1118.3	1126.8	1131.0	1111.9	1116.1	1092.7	1075.7	1058.7	1058.7	1018.3
32.5°	1173.5	1184.2	1175.7	1173.5	1158.6	1156.5	1141.6	1122.5	1111.9	1124.6	1069.4
35°	1247.9	1241.6	1241.6	1239.4	1222.4	1211.8	1211.8	1177.8	1188.4	1216.0	1148.0
37.5°	1286.2	1284.1	1296.8	1307.5	1290.5	1296.8	1290.5	1275.6	1279.8	1328.7	1245.8
40°	1324.5	1339.4	1364.9	1369.1	1379.7	1388.2	1384.0	1381.9	1398.9	1477.5	1377.6
42.5°	1360.6	1373.4	1411.6	1445.7	1471.2	1498.8	1500.9	1500.9	1556.2	1668.9	1537.1
45°	1407.4	1418.0	1471.2	1539.2	1581.7	1600.8	1617.9	1637.0	1711.4	1845.3	1707.1
47.5°	1471.2	1479.7	1543.4	1628.5	1711.4	1722.0	1756.0	1777.3	1890.0	2026.0	1881.5
50°	1562.6	1556.2	1607.2	1730.5	1811.3	1862.3	1911.2	1949.5	2060.1	2208.9	2017.5
52.5°	1637.0	1637.0	1675.3	1839.0	1949.5	1998.4	2049.4	2102.6	2230.1	2391.7	2128.1
55°	1764.5	1751.8	1775.2	1945.3	2104.7	2151.5	2249.3	2293.9	2417.2	2527.8	2221.6
57.5°	1851.7	1858.1	1885.7	2085.6	2287.5	2344.9	2442.7	2474.6	2583.0	2670.2	2289.7
60°	1966.5	1945.3	2004.8	2240.8	2489.5	2570.3	2651.1	2670.2	2751.0	2761.6	2321.5
62.5°	2077.1	2072.8	2123.8	2396.0	2706.3	2763.7	2846.7	2867.9	2901.9	2833.9	2276.9
65°	2145.1	2172.7	2268.4	2566.0	2953.0	3016.7	3099.6	3057.1	3018.9	2770.1	2057.9
67.5°	2238.6	2251.4	2398.1	2751.0	3237.8	3333.5	3405.8	3237.8	2953.0	2508.6	1732.7
70°	2259.9	2293.9	2485.2	2944.4	3531.2	3629.0	3633.3	3176.2	2712.7	2040.9	1256.4
72.5°	2166.3	2189.7	2459.7	3025.2	3699.2	3771.4	3552.5	2872.2	2149.3	1286.2	684.6
75°	1821.9	1887.8	2140.8	2776.5	3390.9	3363.3	3010.4	2191.9	1290.5	569.8	289.1
77.5°	1269.2	1271.3	1534.9	2019.7	2538.4	2532.0	2147.2	1271.3	552.7	229.6	170.1
80°	563.4	603.8	763.2	1088.5	1541.3	1541.3	1252.2	631.4	276.4	148.8	116.9
82.5°	331.6	344.4	408.2	508.1	750.5	790.9	599.5	420.9	189.2	93.5	72.3
85°	244.5	265.7	304.0	306.1	355.0	361.4	331.6	365.7	129.7	51.0	59.5
87.5°	182.8	195.6	242.4	202.0	189.2	178.6	204.1	374.2	48.9	25.5	19.1
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°	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7	990.7
2.5°	980.1	980.1	975.8	967.3	967.3	950.3	954.6	958.8	948.2	948.2	950.3
5°	965.2	956.7	946.1	933.3	924.8	901.4	897.2	882.3	880.1	875.9	869.5
7.5°	935.4	922.7	903.5	884.4	856.8	835.5	810.0	788.7	780.2	773.8	771.7
10°	907.8	905.7	873.8	835.5	793.0	752.6	714.3	686.7	669.7	659.0	656.9
12.5°	907.8	890.8	846.1	793.0	731.3	671.8	622.9	584.6	561.3	544.2	537.9
15°	903.5	886.5	827.0	746.2	676.1	595.3	527.2	486.8	452.8	435.8	437.9
17.5°	907.8	882.3	799.4	712.2	614.4	527.2	446.5	397.6	363.5	350.8	348.7
20°	909.9	878.0	778.1	665.4	550.6	452.8	376.3	329.5	304.0	295.5	295.5
22.5°	905.7	865.3	746.2	610.1	495.3	391.2	327.4	287.0	270.0	259.4	263.6
25°	924.8	863.1	716.4	563.4	431.6	340.2	291.3	261.5	250.9	244.5	246.6
27.5°	929.0	863.1	693.1	510.2	376.3	301.9	263.6	244.5	236.0	231.7	229.6
30°	946.1	867.4	665.4	457.1	331.6	272.1	242.4	231.7	225.4	223.2	223.2
32.5°	992.8	880.1	635.7	412.4	293.4	246.6	227.5	219.0	214.7	212.6	214.7
35°	1048.1	914.2	603.8	365.7	265.7	229.6	214.7	208.3	206.2	206.2	206.2
37.5°	1133.1	965.2	576.1	327.4	242.4	212.6	202.0	199.8	197.7	199.8	199.8
40°	1230.9	1020.5	550.6	297.6	225.4	202.0	191.3	191.3	189.2	191.3	193.5
42.5°	1343.6	1088.5	525.1	267.9	210.5	193.5	185.0	182.8	180.7	185.0	187.1
45°	1498.8	1182.0	508.1	250.9	199.8	185.0	176.5	176.5	174.3	174.3	178.6
47.5°	1628.5	1271.3	508.1	233.9	193.5	178.6	170.1	170.1	165.8	168.0	168.0
50°	1736.9	1347.9	518.7	229.6	185.0	172.2	165.8	161.6	159.4	159.4	159.4
52.5°	1809.2	1394.6	527.2	225.4	180.7	163.7	159.4	157.3	153.1	150.9	153.1
55°	1881.5	1426.5	529.4	225.4	174.3	155.2	150.9	150.9	146.7	144.6	144.6
57.5°	1909.1	1413.8	499.6	221.1	170.1	148.8	144.6	142.4	140.3	138.2	138.2
60°	1896.4	1367.0	433.7	210.5	165.8	144.6	136.1	136.1	136.1	131.8	133.9
62.5°	1809.2	1207.5	348.7	193.5	159.4	136.1	127.6	131.8	131.8	129.7	129.7
65°	1579.6	997.1	282.8	178.6	150.9	129.7	121.2	127.6	129.7	127.6	125.4
67.5°	1262.8	767.5	233.9	161.6	140.3	119.1	112.7	119.1	121.2	119.1	119.1
70°	867.4	495.3	189.2	144.6	125.4	108.4	102.0	106.3	106.3	108.4	108.4
72.5°	448.6	267.9	155.2	123.3	108.4	97.8	91.4	91.4	89.3	89.3	89.3
75°	223.2	182.8	129.7	104.2	91.4	82.9	78.7	74.4	74.4	74.4	74.4
77.5°	155.2	140.3	106.3	82.9	74.4	68.0	68.0	61.7	61.7	61.7	61.7
80°	116.9	110.5	80.8	63.8	57.4	53.1	53.1	51.0	51.0	48.9	48.9
82.5°	82.9	89.3	61.7	46.8	42.5	40.4	40.4	38.3	38.3	34.0	34.0
85°	65.9	74.4	46.8	34.0	31.9	27.6	27.6	25.5	25.5	23.4	21.3
87.5°	19.1	40.4	19.1	12.8	12.8	12.8	12.8	10.6	10.6	8.5	8.5
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)