

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: P677063

Luminaire Tested: **CCW-SA-1D-840-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677063  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-840-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

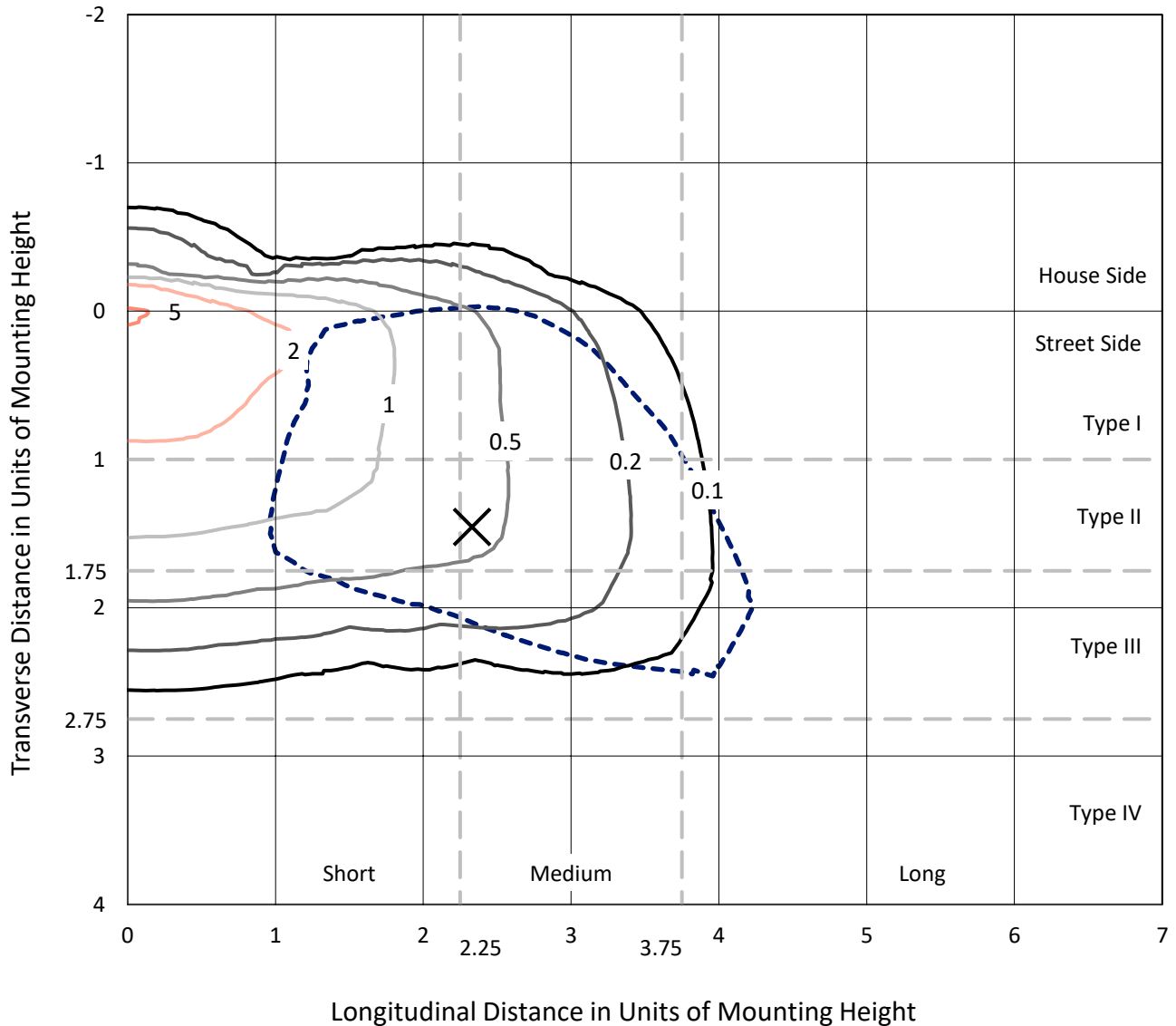
Lumens per Lamp: N/A  
Luminaire Lumens: 3929.2 lumens  
Efficiency: N/A  
Efficacy: 89.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

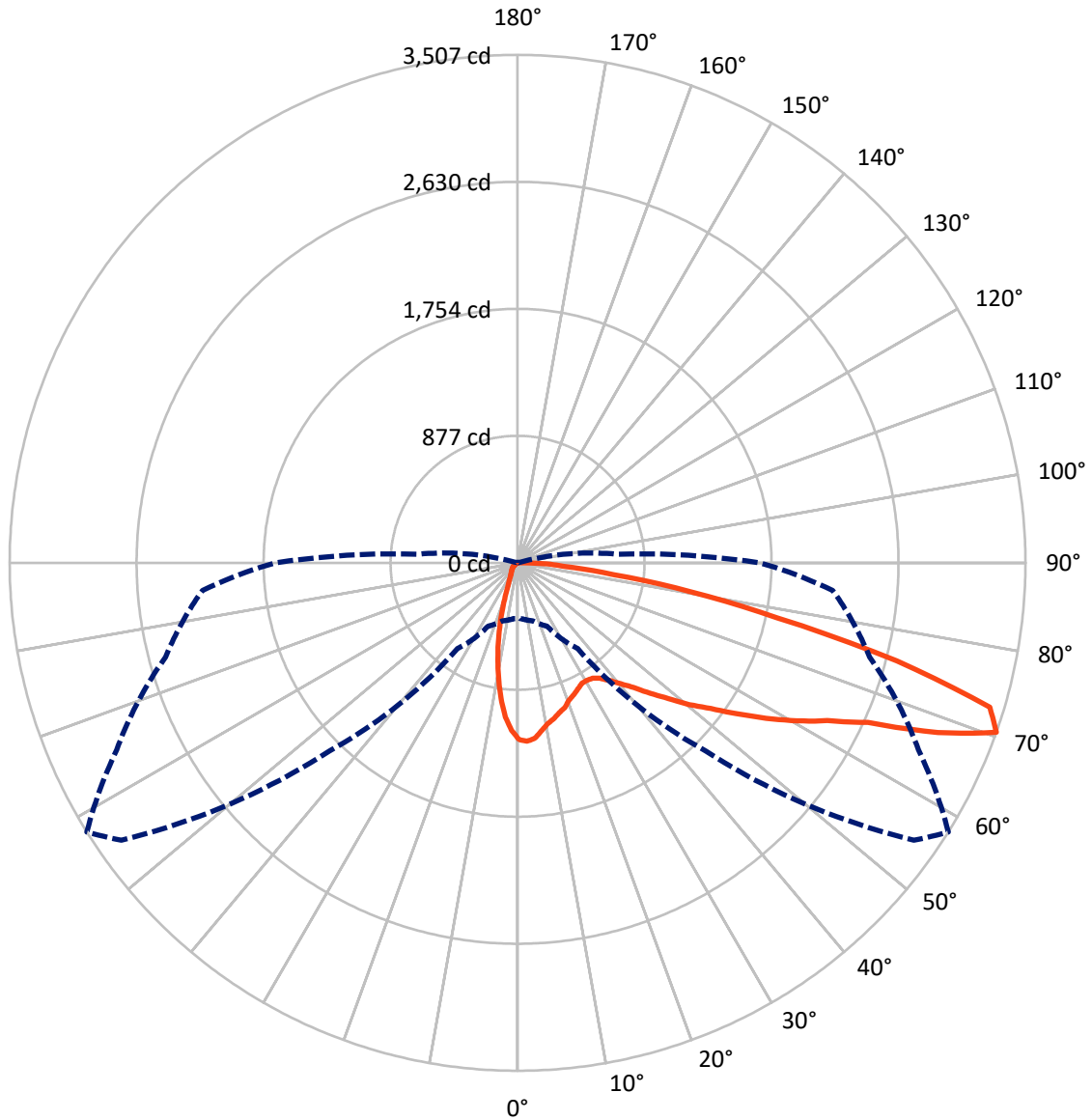
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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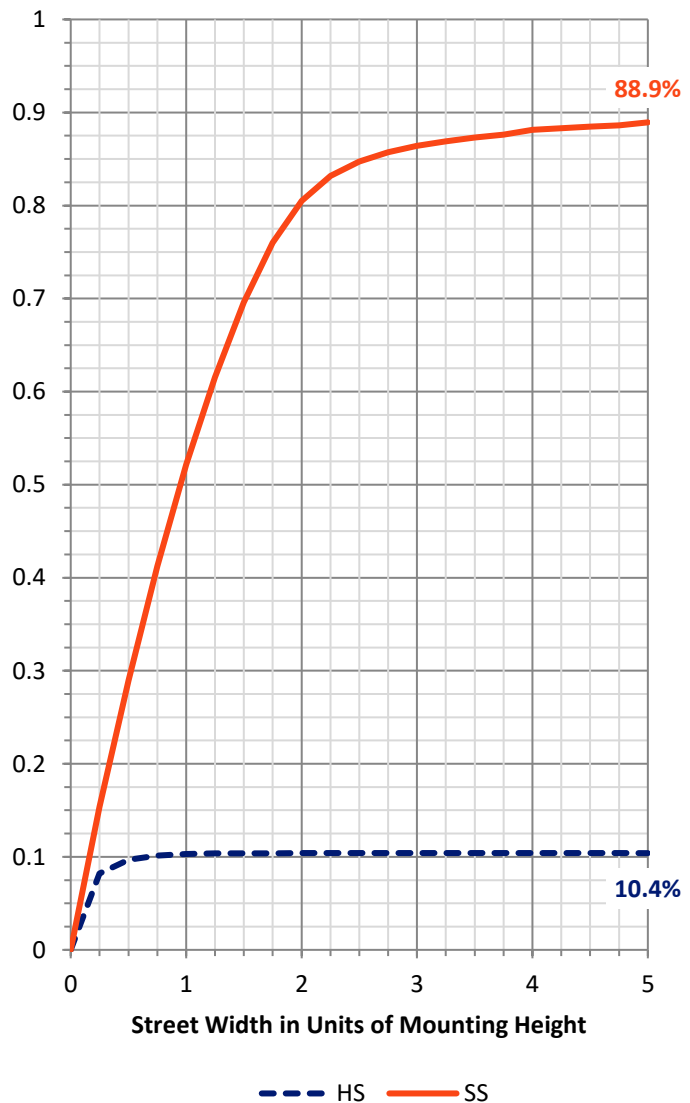
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	411.4	0.0	411.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	3517.7	0.0	3517.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	3929.2	0.0	3929.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	99.5	2.5
10°-20°	207.2	5.3
20°-30°	277.4	7.1
30°-40°	375.0	9.5
40°-50°	538.2	13.7
50°-60°	793.2	20.2
60°-70°	967.5	24.6
70°-80°	590.8	15.0
80°-90°	80.3	2.0
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°	3929.2	100.0
0°-180°	3929.2	100.0

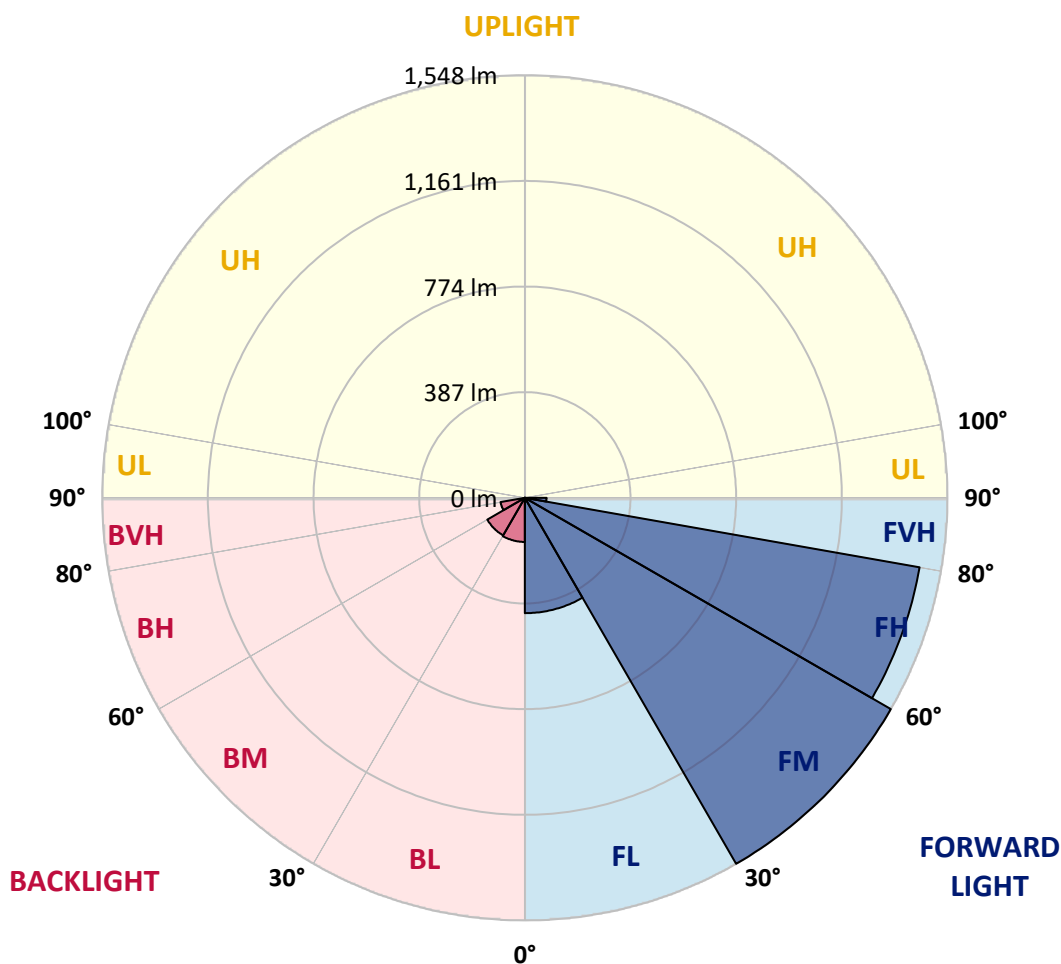


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	422.4	10.8			
FM (30°-60°)	1547.7	39.4			
FH (60°-80°)	1468.1	37.4			G1/1800
FVH (80°-90°)	79.5	2.0			G1/100
BL (0°-30°)	161.7	4.1	B1/500		
BM (30°-60°)	158.8	4.0	B0/220		
BH (60°-80°)	90.2	2.3	B0/110		G0/110
BVH (80°-90°)	0.8	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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1219.7	1219.7	1219.7	1219.7	1219.7	1219.7	1219.7	1219.7	1219.7	1219.7	1219.7
2.5°	1241.8	1246.4	1235.4	1248.3	1236.3	1241.8	1235.4	1233.5	1234.5	1235.4	1228.0
5°	1183.8	1194.9	1199.5	1192.1	1209.6	1206.8	1217.9	1218.8	1214.2	1209.6	1210.5
7.5°	1107.3	1118.4	1123.0	1127.6	1145.1	1168.1	1182.9	1173.7	1181.0	1197.6	1172.7
10°	1052.1	1049.3	1048.4	1057.6	1090.8	1110.1	1135.0	1132.2	1150.6	1166.3	1146.0
12.5°	983.9	978.4	994.9	1002.3	1031.8	1065.9	1085.2	1105.5	1123.9	1140.5	1117.5
15°	933.2	937.8	944.3	959.9	981.1	1026.3	1054.8	1074.2	1107.3	1115.6	1106.4
17.5°	892.7	896.4	905.6	913.9	940.6	983.9	1029.0	1052.1	1087.1	1109.2	1080.6
20°	893.6	882.6	882.6	890.8	905.6	957.2	1005.1	1012.4	1060.4	1098.1	1078.8
22.5°	894.5	890.8	882.6	881.6	888.1	924.9	973.8	990.3	1041.9	1086.1	1063.1
25°	907.4	893.6	894.5	881.6	884.4	902.8	941.5	966.4	1025.3	1092.6	1054.8
27.5°	918.5	924.9	912.0	906.5	890.8	889.9	922.2	943.4	1017.1	1107.3	1060.4
30°	943.4	948.0	948.0	944.3	929.5	908.3	915.7	942.4	1000.5	1104.6	1051.1
32.5°	984.8	976.5	987.6	982.0	962.7	929.5	936.0	949.8	1010.6	1139.6	1065.9
35°	998.6	1005.1	1019.8	1007.8	1001.4	982.0	969.2	979.3	1025.3	1174.6	1088.0
37.5°	1041.0	1031.8	1041.9	1068.6	1075.1	1040.1	1015.2	1030.0	1080.6	1216.0	1108.3
40°	1044.7	1052.1	1070.5	1123.0	1129.4	1114.7	1094.4	1098.1	1135.9	1269.5	1158.9
42.5°	1063.1	1071.4	1109.2	1153.4	1188.4	1191.2	1176.4	1176.4	1208.7	1355.2	1215.1
45°	1099.0	1085.2	1134.1	1208.7	1259.3	1269.5	1288.8	1284.2	1310.0	1445.4	1320.1
47.5°	1112.9	1117.5	1170.9	1261.2	1319.2	1366.2	1398.5	1399.4	1412.3	1560.6	1456.5
50°	1158.0	1157.1	1221.6	1305.4	1391.1	1476.8	1539.4	1539.4	1538.5	1673.0	1573.5
52.5°	1217.9	1216.0	1265.8	1365.3	1476.8	1584.5	1667.5	1670.2	1691.4	1811.2	1708.0
55°	1315.5	1307.2	1355.2	1428.9	1562.4	1693.2	1837.0	1837.9	1821.3	1909.7	1804.7
57.5°	1397.5	1396.6	1436.2	1507.2	1658.2	1833.3	2000.0	2024.9	1972.4	2011.1	1882.1
60°	1376.3	1388.3	1470.3	1575.3	1759.6	2008.3	2176.0	2214.7	2130.8	2080.2	1940.1
62.5°	1244.6	1272.2	1361.6	1529.3	1845.3	2262.6	2418.3	2400.8	2213.8	2139.1	2011.1
65°	895.5	923.1	1033.6	1285.1	1745.8	2442.2	2737.0	2657.8	2361.2	2226.7	2106.0
67.5°	527.0	538.0	607.1	819.9	1305.4	2344.6	3123.9	3130.4	2651.3	2361.2	2269.9
70°	380.5	388.8	415.5	483.7	723.2	1837.9	3339.5	3507.2	3053.9	2515.9	2183.4
72.5°	292.0	292.0	337.2	402.6	460.6	1100.9	3073.3	3409.5	3141.4	2367.6	1759.6
75°	210.0	215.6	264.4	346.4	424.7	552.7	2264.4	2705.7	2662.4	1919.0	1228.9
77.5°	120.7	123.4	186.1	290.2	398.9	379.6	1399.4	1834.2	1885.8	1201.3	532.5
80°	61.7	63.6	104.1	229.4	361.1	330.7	834.6	1207.8	1024.4	349.2	123.4
82.5°	30.4	30.4	47.0	146.5	306.8	293.0	491.0	667.0	363.0	80.1	51.6
85°	10.1	11.1	21.2	82.9	222.0	176.9	300.3	316.9	121.6	30.4	28.6
87.5°	2.8	3.7	5.5	30.4	96.7	116.1	178.7	202.7	49.7	12.0	13.8
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°	1219.7	1219.7	1219.7	1219.7	1219.7	1219.7	1219.7	1219.7	1219.7	1219.7	1219.7
2.5°	1200.4	1193.9	1186.6	1168.1	1153.4	1134.1	1121.2	1111.0	1091.7	1095.4	1087.1
5°	1188.4	1176.4	1134.1	1093.5	1056.7	1000.5	961.8	936.9	916.6	896.4	911.1
7.5°	1167.2	1138.7	1072.3	996.8	918.5	844.8	771.1	726.9	694.6	665.1	664.2
10°	1131.3	1085.2	981.1	882.6	761.9	665.1	571.2	497.5	449.6	414.6	413.6
12.5°	1090.8	1042.9	912.0	751.7	612.6	476.3	363.9	285.6	240.4	212.8	209.1
15°	1065.0	994.9	825.4	635.7	463.4	310.5	201.8	152.9	135.4	129.0	129.0
17.5°	1031.8	951.6	739.8	515.0	321.5	179.6	130.8	117.9	117.0	115.2	113.3
20°	1018.0	918.5	663.3	410.9	203.6	127.1	112.4	109.6	109.6	107.8	105.9
22.5°	981.1	870.6	582.2	301.2	135.4	111.5	105.9	102.3	100.4	98.6	100.4
25°	964.5	836.5	505.8	208.2	110.5	99.5	96.7	93.0	90.3	89.4	89.4
27.5°	953.5	802.4	431.1	144.6	97.7	91.2	85.7	82.9	79.2	75.5	75.5
30°	945.2	775.7	359.3	106.9	87.5	81.1	76.5	70.0	65.4	61.7	61.7
32.5°	934.1	744.4	287.4	91.2	79.2	72.8	64.5	59.0	52.5	49.7	49.7
35°	937.8	723.2	225.7	81.1	70.9	62.6	55.3	47.9	41.5	38.7	37.8
37.5°	945.2	707.5	171.4	72.8	63.6	54.4	46.1	37.8	34.1	30.4	30.4
40°	976.5	702.9	126.2	67.3	58.0	47.9	38.7	31.3	27.6	24.9	24.0
42.5°	1029.0	709.4	97.7	60.8	52.5	40.5	32.2	25.8	22.1	19.3	18.4
45°	1096.3	734.2	80.1	57.1	46.1	34.1	25.8	21.2	16.6	14.7	14.7
47.5°	1193.9	772.9	70.0	52.5	40.5	28.6	22.1	16.6	12.9	11.1	11.1
50°	1304.5	817.1	61.7	47.0	35.0	24.0	17.5	12.9	9.2	8.3	8.3
52.5°	1415.0	873.3	57.1	43.3	30.4	19.3	13.8	9.2	6.4	5.5	5.5
55°	1531.1	923.1	51.6	40.5	24.9	15.7	10.1	5.5	3.7	2.8	2.8
57.5°	1612.2	942.4	45.1	35.0	19.3	12.0	7.4	3.7	1.8	0.9	0.9
60°	1670.2	945.2	38.7	28.6	14.7	9.2	4.6	1.8	0.9	0.0	0.0
62.5°	1719.0	950.7	33.2	22.1	11.1	6.4	2.8	0.9	0.0	0.0	0.0
65°	1815.8	946.1	26.7	17.5	7.4	3.7	1.8	0.0	0.0	0.0	0.0
67.5°	1892.2	900.1	21.2	12.0	4.6	1.8	0.9	0.0	0.0	0.0	0.0
70°	1673.9	686.3	16.6	8.3	2.8	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	1314.6	457.9	11.1	4.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	862.3	227.5	8.3	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	335.3	59.9	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	81.1	20.3	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	35.0	7.4	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.2	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.1	1.8	0.9	0.9	0.0	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)