

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: P673878

Luminaire Tested: **CCP-SA-2B-827-U-SL3-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P673878  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-827-U-SL3-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ SL3 distribution lens and House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

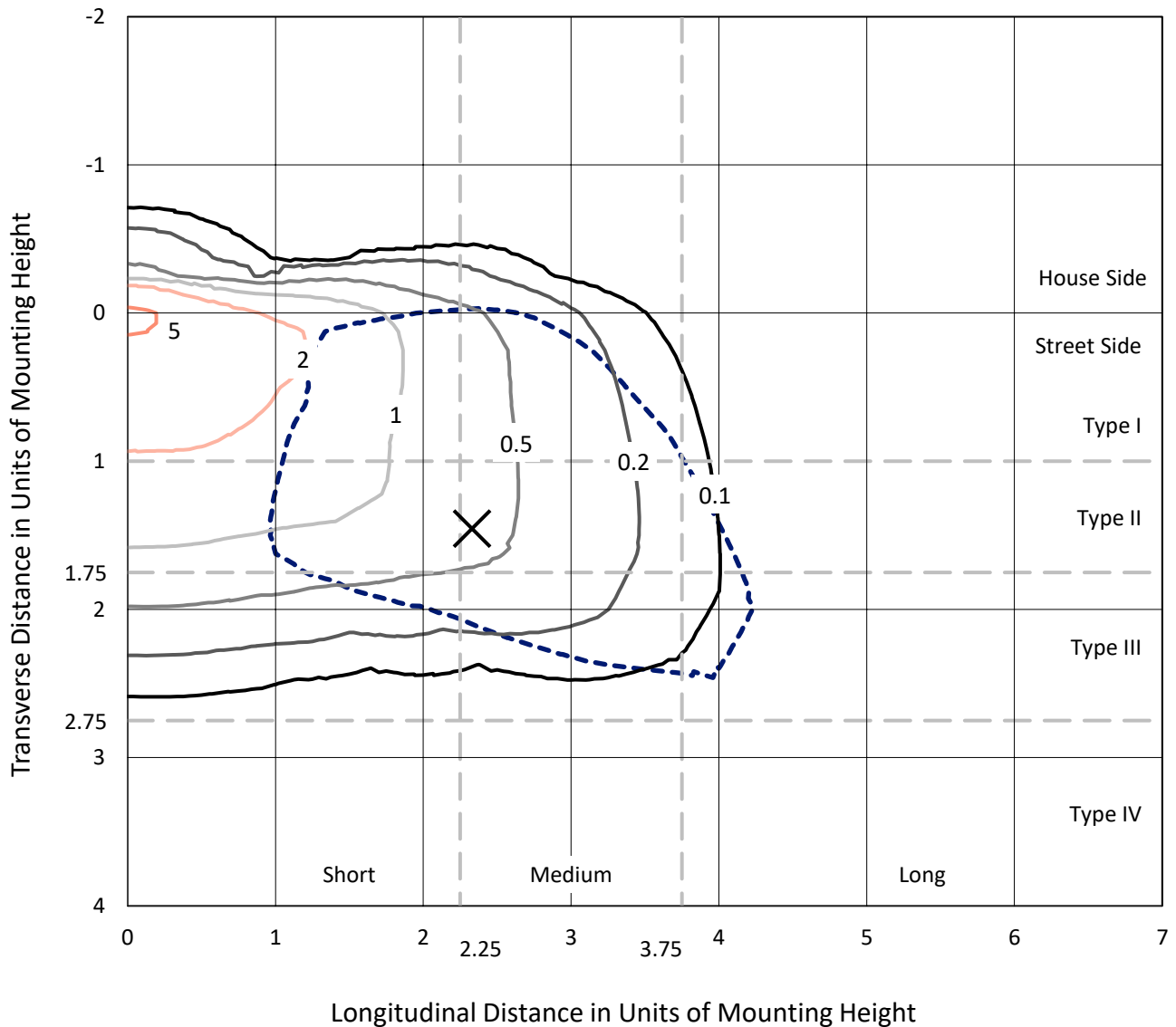
Lumens per Lamp: N/A  
Luminaire Lumens: 4195.2 lumens  
Efficiency: N/A  
Efficacy: 91.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

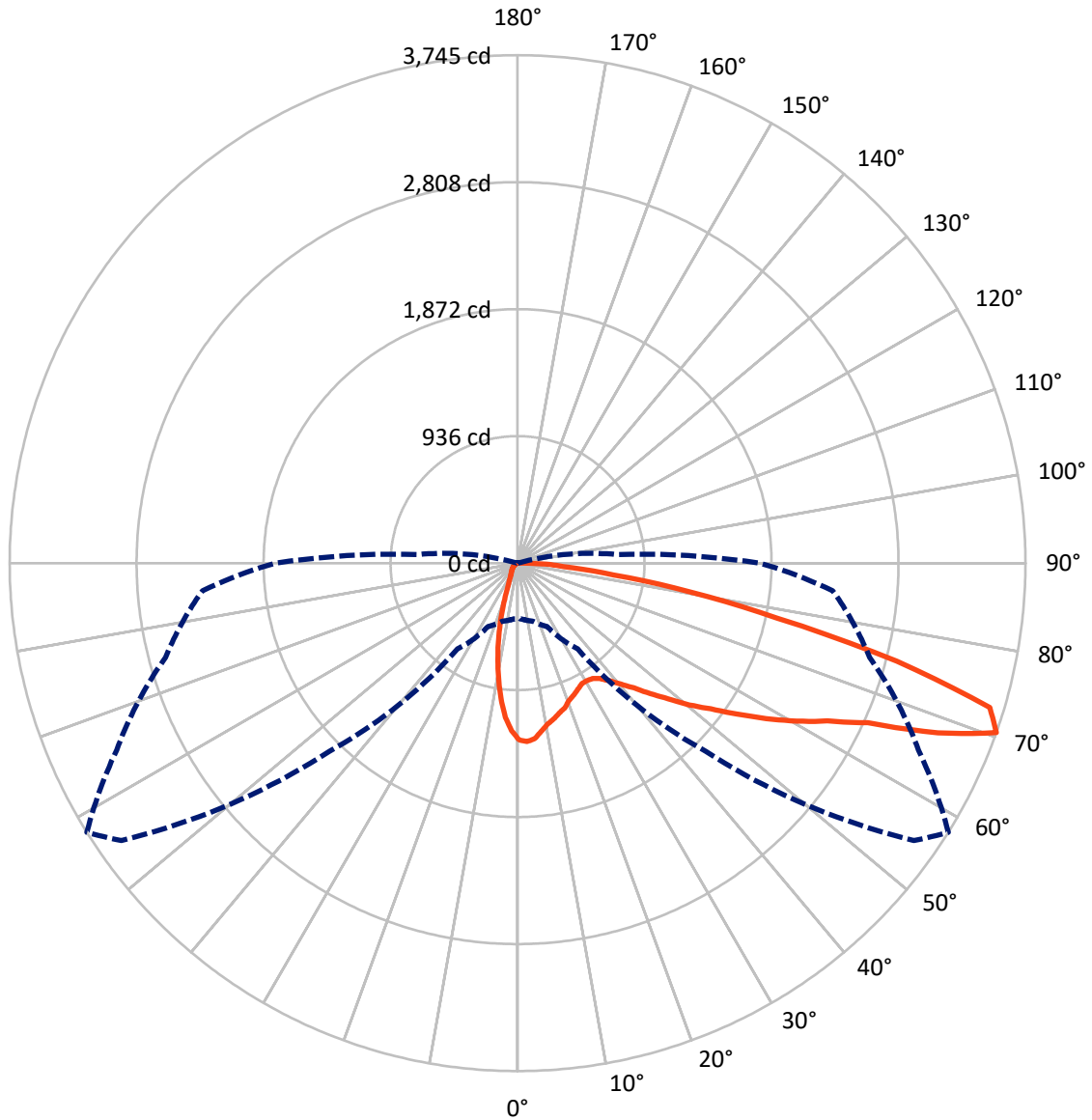
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.8 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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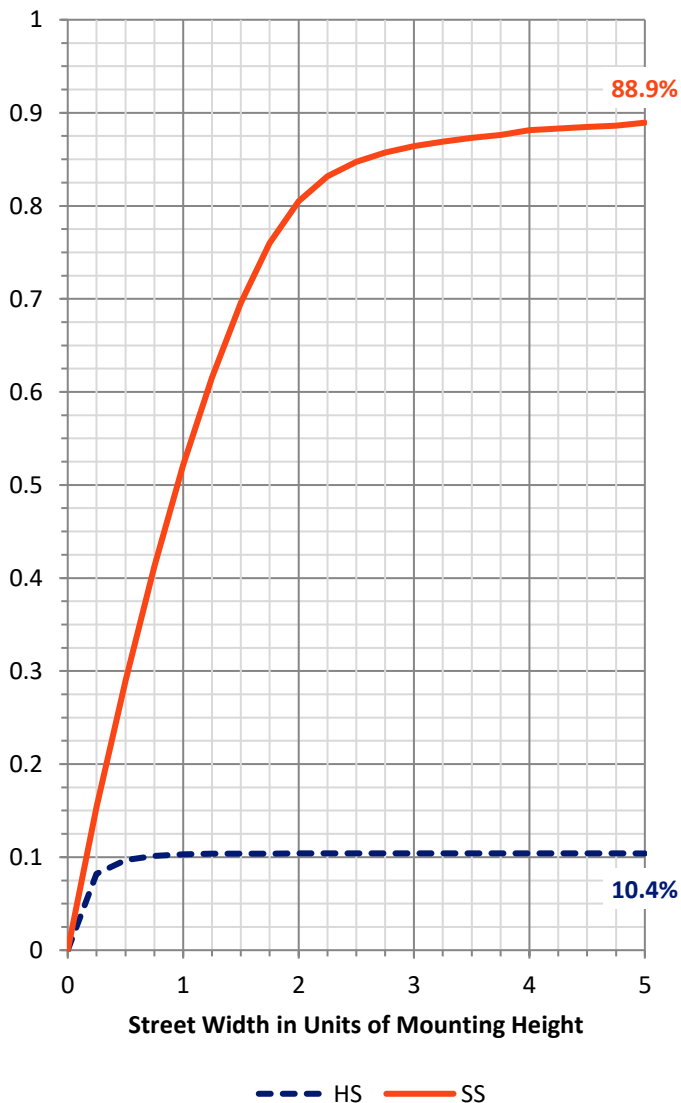
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	439.3	0.0	439.3
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	3755.8	0.0	3755.8
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	4195.2	0.0	4195.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	106.3	2.5
10°-20°	221.2	5.3
20°-30°	296.2	7.1
30°-40°	400.4	9.5
40°-50°	574.7	13.7
50°-60°	846.9	20.2
60°-70°	1033.0	24.6
70°-80°	630.8	15.0
80°-90°	85.7	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°	4195.2	100.0
0°-180°	4195.2	100.0



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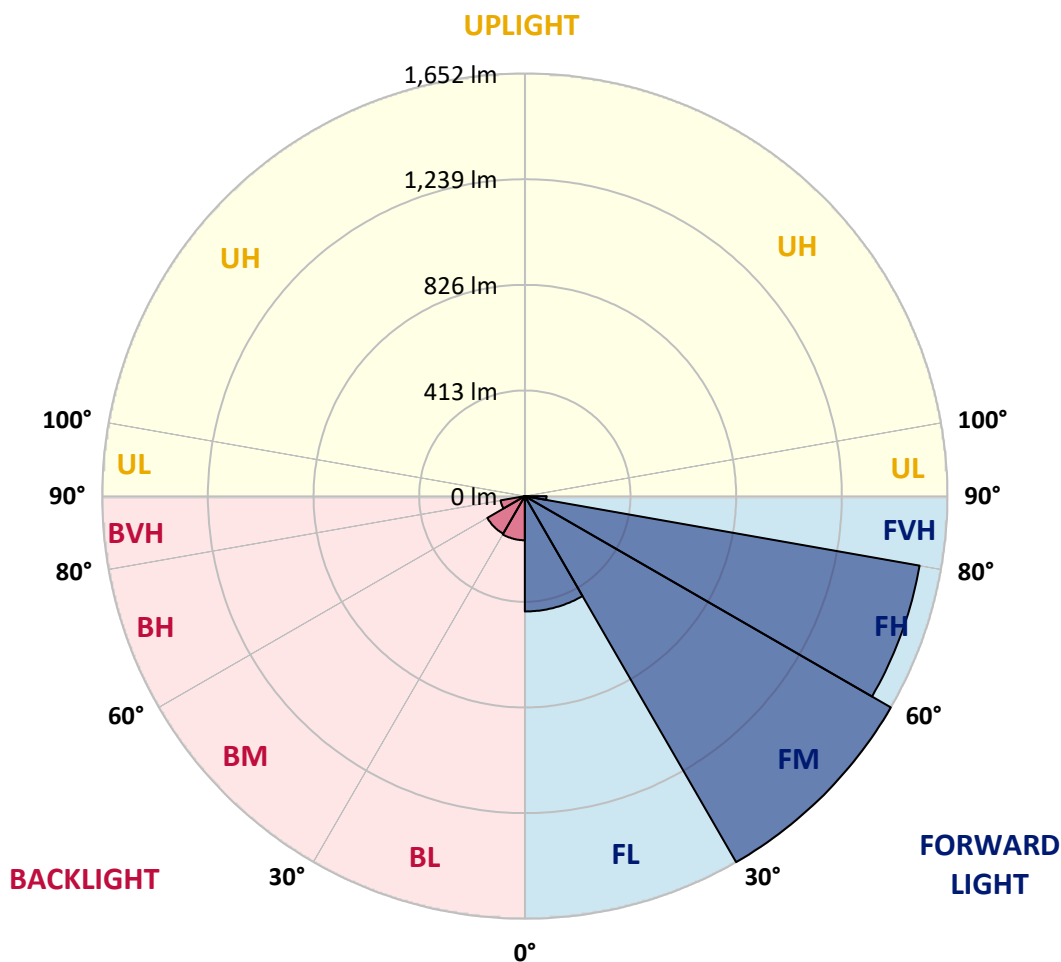
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	451.0	10.8			
FM (30°-60°)	1652.4	39.4			
FH (60°-80°)	1567.5	37.4			G1/1800
FVH (80°-90°)	84.9	2.0			G1/100
BL (0°-30°)	172.6	4.1	B1/500		
BM (30°-60°)	169.6	4.0	B0/220		
BH (60°-80°)	96.3	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°	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3
2.5°	1325.9	1330.8	1319.0	1332.8	1320.0	1325.9	1319.0	1317.1	1318.0	1319.0	1311.2
5°	1263.9	1275.7	1280.7	1272.8	1291.5	1288.5	1300.3	1301.3	1296.4	1291.5	1292.5
7.5°	1182.3	1194.1	1199.0	1203.9	1222.6	1247.2	1263.0	1253.1	1261.0	1278.7	1252.1
10°	1123.3	1120.3	1119.4	1129.2	1164.6	1185.3	1211.8	1208.9	1228.5	1245.3	1223.6
12.5°	1050.5	1044.6	1062.3	1070.2	1101.6	1138.0	1158.7	1180.3	1200.0	1217.7	1193.1
15°	996.4	1001.3	1008.2	1024.9	1047.5	1095.7	1126.2	1146.9	1182.3	1191.2	1181.3
17.5°	953.1	957.1	966.9	975.7	1004.3	1050.5	1098.7	1123.3	1160.7	1184.3	1153.8
20°	954.1	942.3	942.3	951.2	966.9	1022.0	1073.1	1081.0	1132.1	1172.5	1151.8
22.5°	955.1	951.2	942.3	941.3	948.2	987.5	1039.7	1057.4	1112.5	1159.7	1135.1
25°	968.9	954.1	955.1	941.3	944.3	963.9	1005.3	1031.8	1094.8	1166.6	1126.2
27.5°	980.7	987.5	973.8	967.9	951.2	950.2	984.6	1007.2	1085.9	1182.3	1132.1
30°	1007.2	1012.1	1012.1	1008.2	992.5	969.8	977.7	1006.2	1068.2	1179.4	1122.3
32.5°	1051.5	1042.6	1054.4	1048.5	1027.9	992.5	999.3	1014.1	1079.0	1216.7	1138.0
35°	1066.2	1073.1	1088.9	1076.1	1069.2	1048.5	1034.8	1045.6	1094.8	1254.1	1161.6
37.5°	1111.5	1101.6	1112.5	1141.0	1147.9	1110.5	1083.9	1099.7	1153.8	1298.4	1183.3
40°	1115.4	1123.3	1143.0	1199.0	1205.9	1190.2	1168.5	1172.5	1212.8	1355.4	1237.4
42.5°	1135.1	1143.9	1184.3	1231.5	1268.9	1271.8	1256.1	1256.1	1290.5	1446.9	1297.4
45°	1173.4	1158.7	1210.8	1290.5	1344.6	1355.4	1376.1	1371.2	1398.7	1543.3	1409.5
47.5°	1188.2	1193.1	1250.2	1346.6	1408.5	1458.7	1493.1	1494.1	1507.9	1666.2	1555.1
50°	1236.4	1235.4	1304.3	1393.8	1485.3	1576.7	1643.6	1643.6	1642.6	1786.2	1680.0
52.5°	1300.3	1298.4	1351.5	1457.7	1576.7	1691.8	1780.3	1783.3	1805.9	1933.8	1823.6
55°	1404.6	1395.7	1446.9	1525.6	1668.2	1807.9	1961.3	1962.3	1944.6	2039.0	1926.9
57.5°	1492.1	1491.2	1533.5	1609.2	1770.5	1957.4	2135.4	2162.0	2105.9	2147.2	2009.5
60°	1469.5	1482.3	1569.8	1682.0	1878.7	2144.3	2323.3	2364.6	2275.1	2221.0	2071.5
62.5°	1328.9	1358.4	1453.8	1632.8	1970.2	2415.8	2582.0	2563.3	2363.6	2283.9	2147.2
65°	956.1	985.6	1103.6	1372.1	1863.9	2607.6	2922.3	2837.7	2521.0	2377.4	2248.5
67.5°	562.6	574.4	648.2	875.4	1393.8	2503.3	3335.4	3342.3	2830.8	2521.0	2423.6
70°	406.2	415.1	443.6	516.4	772.1	1962.3	3565.6	3744.6	3260.7	2686.2	2331.2
72.5°	311.8	311.8	360.0	429.8	491.8	1175.4	3281.3	3640.3	3354.1	2527.9	1878.7
75°	224.3	230.2	282.3	369.8	453.4	590.2	2417.7	2888.9	2842.6	2048.9	1312.1
77.5°	128.9	131.8	198.7	309.8	425.9	405.2	1494.1	1958.4	2013.5	1282.6	568.5
80°	65.9	67.9	111.1	244.9	385.6	353.1	891.2	1289.5	1093.8	372.8	131.8
82.5°	32.5	32.5	50.2	156.4	327.5	312.8	524.3	712.1	387.5	85.6	55.1
85°	10.8	11.8	22.6	88.5	237.1	188.9	320.7	338.4	129.8	32.5	30.5
87.5°	3.0	3.9	5.9	32.5	103.3	123.9	190.8	216.4	53.1	12.8	14.8
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°	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3	1302.3
2.5°	1281.6	1274.8	1266.9	1247.2	1231.5	1210.8	1197.1	1186.2	1165.6	1169.5	1160.7
5°	1268.9	1256.1	1210.8	1167.5	1128.2	1068.2	1026.9	1000.3	978.7	957.1	972.8
7.5°	1246.2	1215.7	1144.9	1064.3	980.7	902.0	823.3	776.1	741.6	710.2	709.2
10°	1207.9	1158.7	1047.5	942.3	813.4	710.2	609.8	531.2	480.0	442.6	441.6
12.5°	1164.6	1113.4	973.8	802.6	654.1	508.5	388.5	304.9	256.7	227.2	223.3
15°	1137.1	1062.3	881.3	678.7	494.8	331.5	215.4	163.3	144.6	137.7	137.7
17.5°	1101.6	1016.1	789.8	549.8	343.3	191.8	139.7	125.9	124.9	123.0	121.0
20°	1086.9	980.7	708.2	438.7	217.4	135.7	120.0	117.0	117.0	115.1	113.1
22.5°	1047.5	929.5	621.6	321.6	144.6	119.0	113.1	109.2	107.2	105.2	107.2
25°	1029.8	893.1	540.0	222.3	118.0	106.2	103.3	99.3	96.4	95.4	95.4
27.5°	1018.0	856.7	460.3	154.4	104.3	97.4	91.5	88.5	84.6	80.7	80.7
30°	1009.2	828.2	383.6	114.1	93.4	86.6	81.6	74.8	69.8	65.9	65.9
32.5°	997.4	794.8	306.9	97.4	84.6	77.7	68.9	63.0	56.1	53.1	53.1
35°	1001.3	772.1	241.0	86.6	75.7	66.9	59.0	51.1	44.3	41.3	40.3
37.5°	1009.2	755.4	183.0	77.7	67.9	58.0	49.2	40.3	36.4	32.5	32.5
40°	1042.6	750.5	134.8	71.8	62.0	51.1	41.3	33.4	29.5	26.6	25.6
42.5°	1098.7	757.4	104.3	64.9	56.1	43.3	34.4	27.5	23.6	20.7	19.7
45°	1170.5	783.9	85.6	61.0	49.2	36.4	27.5	22.6	17.7	15.7	15.7
47.5°	1274.8	825.3	74.8	56.1	43.3	30.5	23.6	17.7	13.8	11.8	11.8
50°	1392.8	872.5	65.9	50.2	37.4	25.6	18.7	13.8	9.8	8.9	8.9
52.5°	1510.8	932.5	61.0	46.2	32.5	20.7	14.8	9.8	6.9	5.9	5.9
55°	1634.8	985.6	55.1	43.3	26.6	16.7	10.8	5.9	3.9	3.0	3.0
57.5°	1721.3	1006.2	48.2	37.4	20.7	12.8	7.9	3.9	2.0	1.0	1.0
60°	1783.3	1009.2	41.3	30.5	15.7	9.8	4.9	2.0	1.0	0.0	0.0
62.5°	1835.4	1015.1	35.4	23.6	11.8	6.9	3.0	1.0	0.0	0.0	0.0
65°	1938.7	1010.2	28.5	18.7	7.9	3.9	2.0	0.0	0.0	0.0	0.0
67.5°	2020.3	961.0	22.6	12.8	4.9	2.0	1.0	0.0	0.0	0.0	0.0
70°	1787.2	732.8	17.7	8.9	3.0	1.0	0.0	0.0	0.0	0.0	0.0
72.5°	1403.6	488.9	11.8	4.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0
75°	920.7	243.0	8.9	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	358.0	63.9	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	86.6	21.6	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.4	7.9	2.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.6	3.9	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.8	2.0	1.0	1.0	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)