

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: P673811

Luminaire Tested: **CCP-SA-2A-727-U-SL3-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673811
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-727-U-SL3-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ SL3 distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3781.3 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

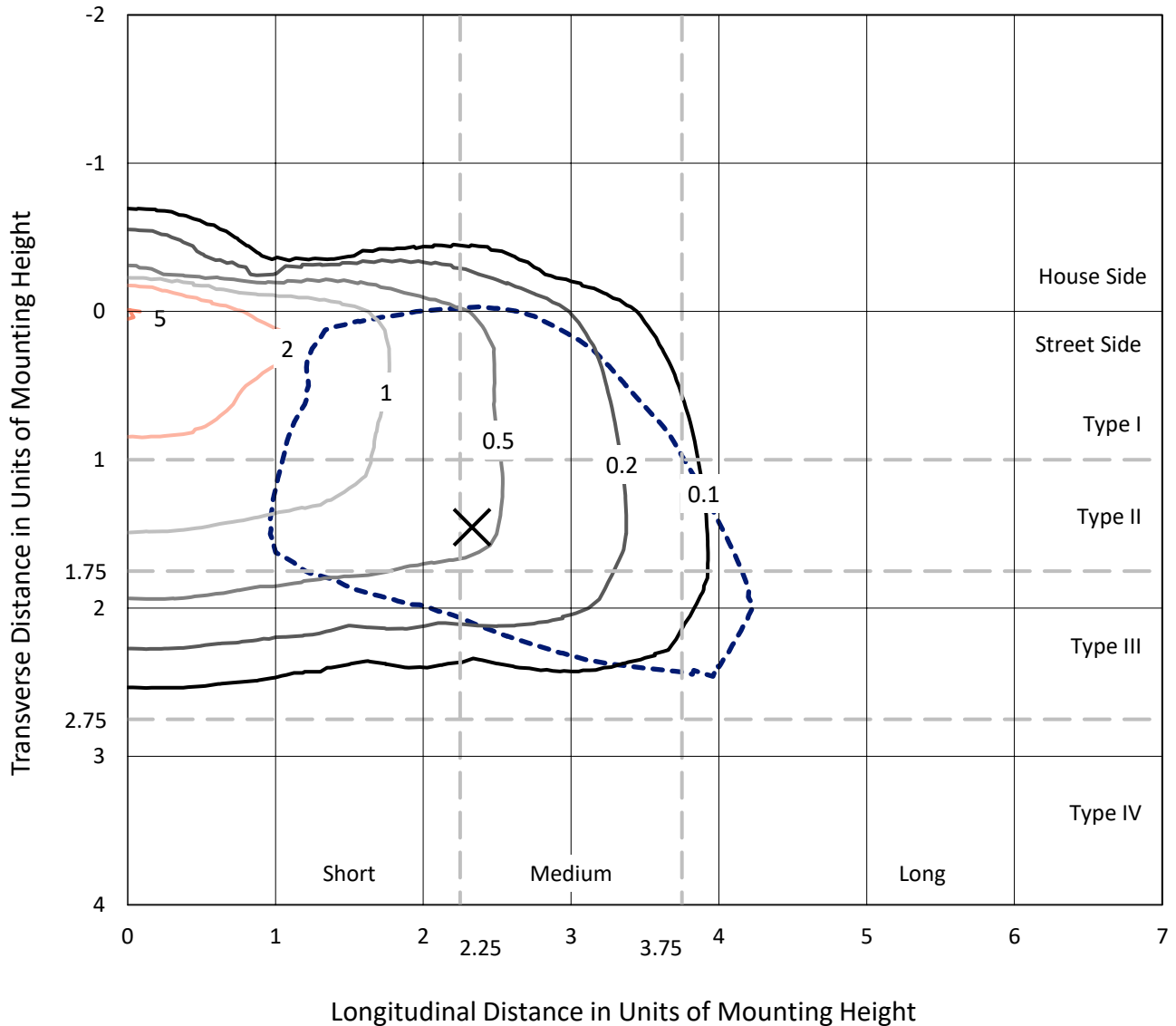
Input Watts (W): 36.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

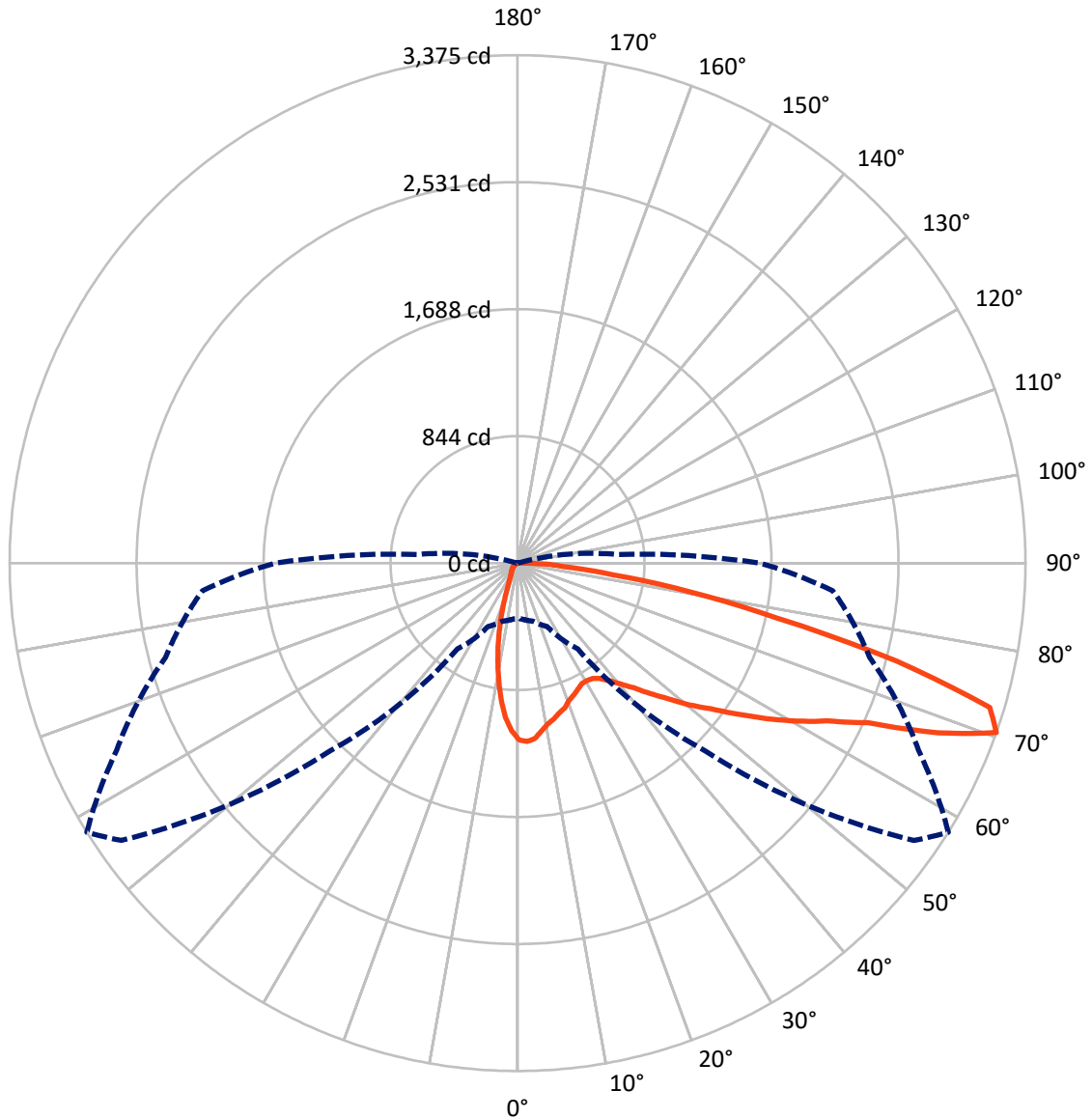
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.2 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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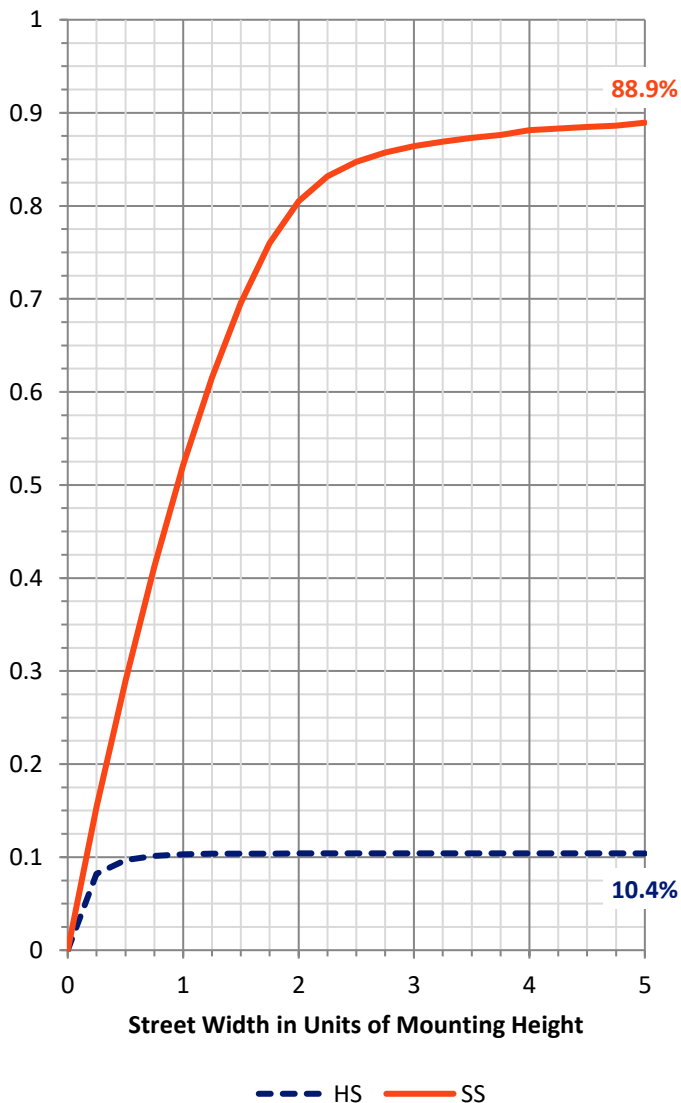
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	396.0	0.0	396.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3385.3	0.0	3385.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	3781.3	0.0	3781.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.8	2.5
10°-20°	199.4	5.3
20°-30°	267.0	7.1
30°-40°	360.9	9.5
40°-50°	518.0	13.7
50°-60°	763.3	20.2
60°-70°	931.1	24.6
70°-80°	568.6	15.0
80°-90°	77.2	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°	3781.3	100.0
0°-180°	3781.3	100.0



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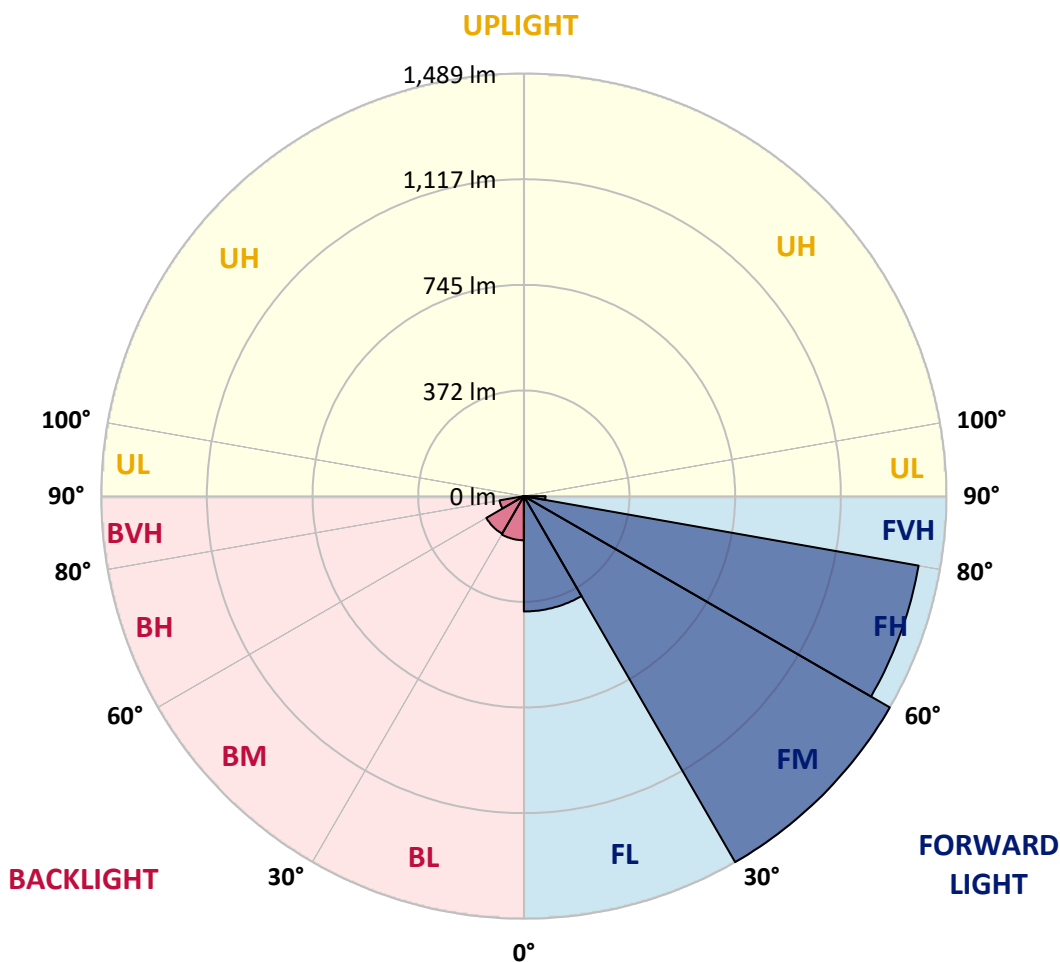
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.6	10.8			
FM (30°-60°)	1489.4	39.4			
FH (60°-80°)	1412.9	37.4			G1/1800
FVH (80°-90°)	76.5	2.0			G1/100
BL (0°-30°)	155.6	4.1	B1/500		
BM (30°-60°)	152.8	4.0	B0/220		
BH (60°-80°)	86.8	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°	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8
2.5°	1195.1	1199.5	1188.9	1201.3	1189.8	1195.1	1188.9	1187.1	1188.0	1188.9	1181.8
5°	1139.3	1149.9	1154.3	1147.2	1164.1	1161.4	1172.1	1172.9	1168.5	1164.1	1165.0
7.5°	1065.7	1076.3	1080.7	1085.2	1102.0	1124.2	1138.4	1129.5	1136.6	1152.6	1128.6
10°	1012.5	1009.8	1008.9	1017.8	1049.7	1068.3	1092.3	1089.6	1107.3	1122.4	1102.9
12.5°	946.9	941.5	957.5	964.6	993.0	1025.8	1044.4	1063.9	1081.6	1097.6	1075.4
15°	898.1	902.5	908.7	923.8	944.2	987.6	1015.1	1033.7	1065.7	1073.6	1064.8
17.5°	859.1	862.6	871.5	879.5	905.2	946.9	990.3	1012.5	1046.2	1067.4	1040.0
20°	860.0	849.3	849.3	857.3	871.5	921.2	967.3	974.3	1020.5	1056.8	1038.2
22.5°	860.9	857.3	849.3	848.5	854.7	890.1	937.1	953.1	1002.7	1045.3	1023.1
25°	873.3	860.0	860.9	848.5	851.1	868.8	906.1	930.0	986.8	1051.5	1015.1
27.5°	883.9	890.1	877.7	872.4	857.3	856.4	887.5	907.9	978.8	1065.7	1020.5
30°	907.9	912.3	912.3	908.7	894.6	874.2	881.3	907.0	962.8	1063.0	1011.6
32.5°	947.8	939.8	950.4	945.1	926.5	894.6	900.8	914.1	972.6	1096.7	1025.8
35°	961.0	967.3	981.4	969.9	963.7	945.1	932.7	942.4	986.8	1130.4	1047.0
37.5°	1001.8	993.0	1002.7	1028.4	1034.6	1000.9	977.0	991.2	1040.0	1170.3	1066.6
40°	1005.4	1012.5	1030.2	1080.7	1086.9	1072.8	1053.3	1056.8	1093.2	1221.7	1115.3
42.5°	1023.1	1031.1	1067.4	1110.0	1143.7	1146.3	1132.2	1132.2	1163.2	1304.2	1169.4
45°	1057.7	1044.4	1091.4	1163.2	1212.0	1221.7	1240.3	1235.9	1260.7	1391.0	1270.5
47.5°	1071.0	1075.4	1126.8	1213.7	1269.6	1314.8	1345.8	1346.7	1359.1	1501.9	1401.7
50°	1114.4	1113.5	1175.6	1256.3	1338.7	1421.2	1481.5	1481.5	1480.6	1610.0	1514.3
52.5°	1172.1	1170.3	1218.2	1313.9	1421.2	1524.9	1604.7	1607.4	1627.8	1743.0	1643.7
55°	1266.0	1258.1	1304.2	1375.1	1503.6	1629.5	1767.8	1768.7	1752.8	1837.9	1736.8
57.5°	1344.9	1344.1	1382.2	1450.4	1595.8	1764.3	1924.8	1948.7	1898.2	1935.4	1811.3
60°	1324.5	1336.1	1415.0	1516.0	1693.4	1932.7	2094.1	2131.3	2050.7	2001.9	1867.1
62.5°	1197.8	1224.4	1310.4	1471.7	1775.8	2177.4	2327.3	2310.4	2130.4	2058.6	1935.4
65°	861.8	888.4	994.7	1236.8	1680.1	2350.3	2634.0	2557.8	2272.3	2142.9	2026.7
67.5°	507.1	517.8	584.3	789.1	1256.3	2256.3	3006.4	3012.6	2551.6	2272.3	2184.5
70°	366.2	374.1	399.8	465.5	696.0	1768.7	3213.8	3375.2	2939.0	2421.2	2101.2
72.5°	281.0	281.0	324.5	387.4	443.3	1059.5	2957.6	3281.2	3023.2	2278.5	1693.4
75°	202.1	207.5	254.4	333.4	408.7	531.9	2179.2	2603.9	2562.2	1846.7	1182.7
77.5°	116.1	118.8	179.1	279.3	383.9	365.3	1346.7	1765.2	1814.8	1156.1	512.4
80°	59.4	61.2	100.2	220.8	347.5	318.3	803.2	1162.3	985.9	336.0	118.8
82.5°	29.3	29.3	45.2	141.0	295.2	281.9	472.5	641.9	349.3	77.1	49.6
85°	9.8	10.6	20.4	79.8	213.7	170.2	289.0	305.0	117.0	29.3	27.5
87.5°	2.7	3.5	5.3	29.3	93.1	111.7	172.0	195.0	47.9	11.5	13.3
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°	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8	1173.8
2.5°	1155.2	1149.0	1141.9	1124.2	1110.0	1091.4	1079.0	1069.2	1050.6	1054.1	1046.2
5°	1143.7	1132.2	1091.4	1052.4	1016.9	962.8	925.6	901.6	882.1	862.6	876.8
7.5°	1123.3	1095.8	1032.0	959.3	883.9	813.0	742.1	699.5	668.5	640.1	639.2
10°	1088.7	1044.4	944.2	849.3	733.2	640.1	549.7	478.8	432.6	399.0	398.1
12.5°	1049.7	1003.6	877.7	723.4	589.6	458.4	350.2	274.8	231.4	204.8	201.3
15°	1024.9	957.5	794.4	611.7	445.9	298.8	194.2	147.2	130.3	124.1	124.1
17.5°	993.0	915.8	711.9	495.6	309.4	172.9	125.9	113.5	112.6	110.8	109.0
20°	979.7	883.9	638.3	395.4	195.9	122.3	108.2	105.5	105.5	103.7	102.0
22.5°	944.2	837.8	560.3	289.9	130.3	107.3	102.0	98.4	96.6	94.9	96.6
25°	928.2	805.0	486.7	200.4	106.4	95.8	93.1	89.5	86.9	86.0	86.0
27.5°	917.6	772.2	414.9	139.2	94.0	87.8	82.5	79.8	76.2	72.7	72.7
30°	909.6	746.5	345.8	102.8	84.2	78.0	73.6	67.4	62.9	59.4	59.4
32.5°	899.0	716.4	276.6	87.8	76.2	70.0	62.1	56.7	50.5	47.9	47.9
35°	902.5	696.0	217.2	78.0	68.3	60.3	53.2	46.1	39.9	37.2	36.3
37.5°	909.6	680.9	164.9	70.0	61.2	52.3	44.3	36.3	32.8	29.3	29.3
40°	939.8	676.5	121.5	64.7	55.9	46.1	37.2	30.1	26.6	23.9	23.1
42.5°	990.3	682.7	94.0	58.5	50.5	39.0	31.0	24.8	21.3	18.6	17.7
45°	1055.0	706.6	77.1	55.0	44.3	32.8	24.8	20.4	16.0	14.2	14.2
47.5°	1149.0	743.8	67.4	50.5	39.0	27.5	21.3	16.0	12.4	10.6	10.6
50°	1255.4	786.4	59.4	45.2	33.7	23.1	16.8	12.4	8.9	8.0	8.0
52.5°	1361.8	840.5	55.0	41.7	29.3	18.6	13.3	8.9	6.2	5.3	5.3
55°	1473.5	888.4	49.6	39.0	23.9	15.1	9.8	5.3	3.5	2.7	2.7
57.5°	1551.5	907.0	43.4	33.7	18.6	11.5	7.1	3.5	1.8	0.9	0.9
60°	1607.4	909.6	37.2	27.5	14.2	8.9	4.4	1.8	0.9	0.0	0.0
62.5°	1654.4	914.9	31.9	21.3	10.6	6.2	2.7	0.9	0.0	0.0	0.0
65°	1747.4	910.5	25.7	16.8	7.1	3.5	1.8	0.0	0.0	0.0	0.0
67.5°	1821.0	866.2	20.4	11.5	4.4	1.8	0.9	0.0	0.0	0.0	0.0
70°	1610.9	660.5	16.0	8.0	2.7	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	1265.1	440.6	10.6	4.4	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	829.8	219.0	8.0	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	322.7	57.6	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	78.0	19.5	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	33.7	7.1	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	20.4	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	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)