

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: P677044

Luminaire Tested: **CCW-SA-2A-830-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677044  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-830-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

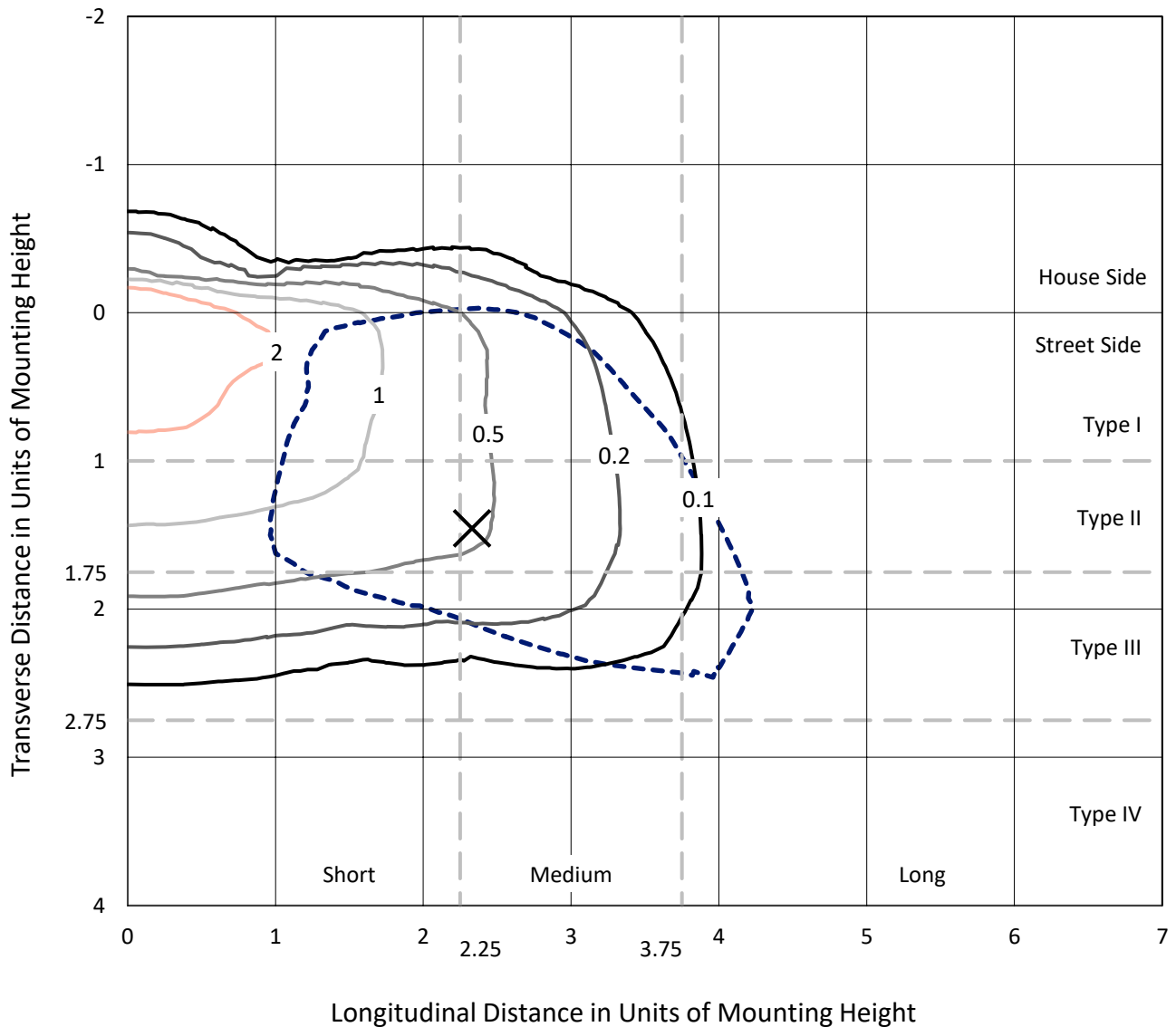
Lumens per Lamp: N/A  
Luminaire Lumens: 3592.7 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

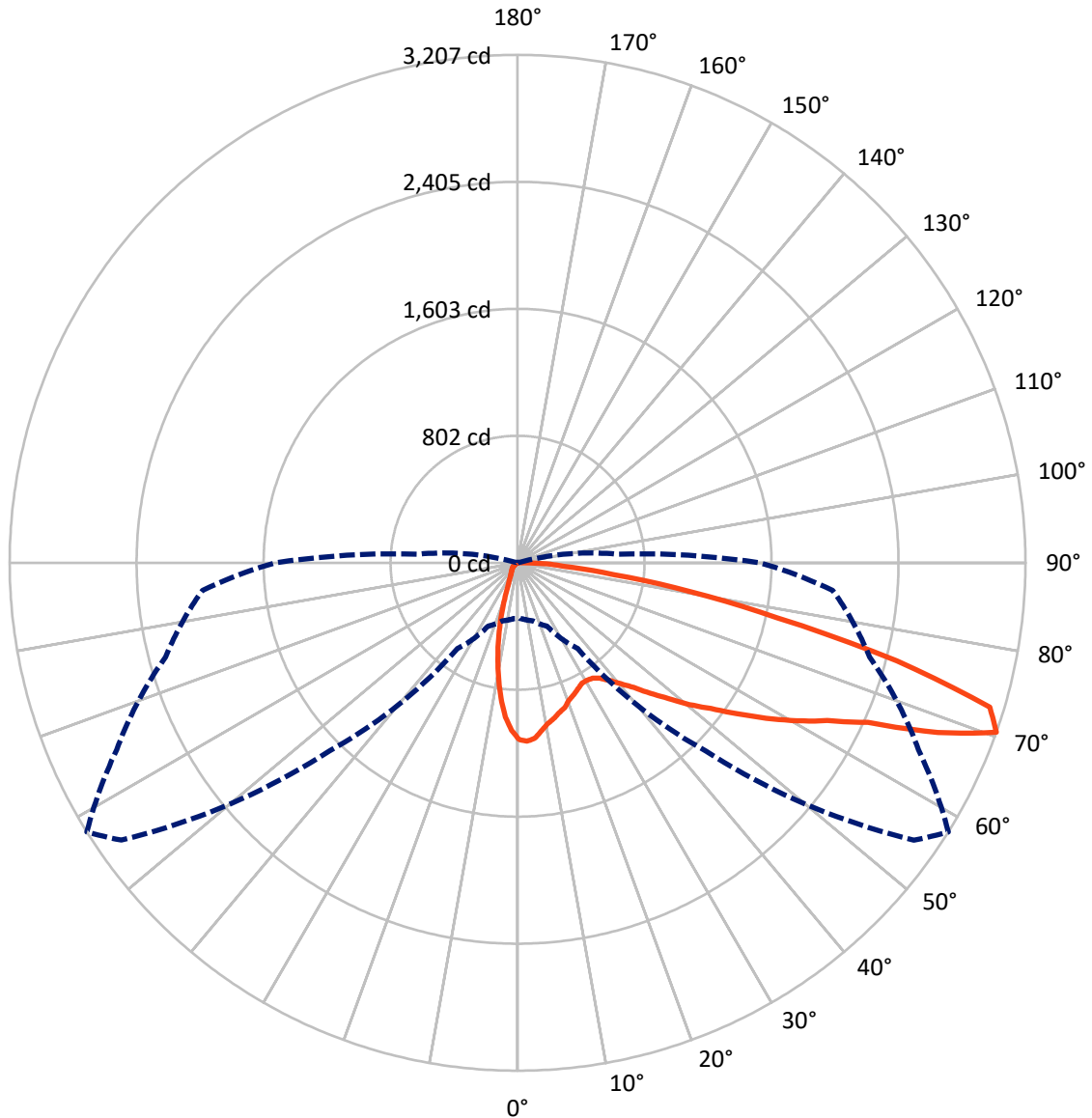
✕ Max cd  
 - - - 1/2 Max cd



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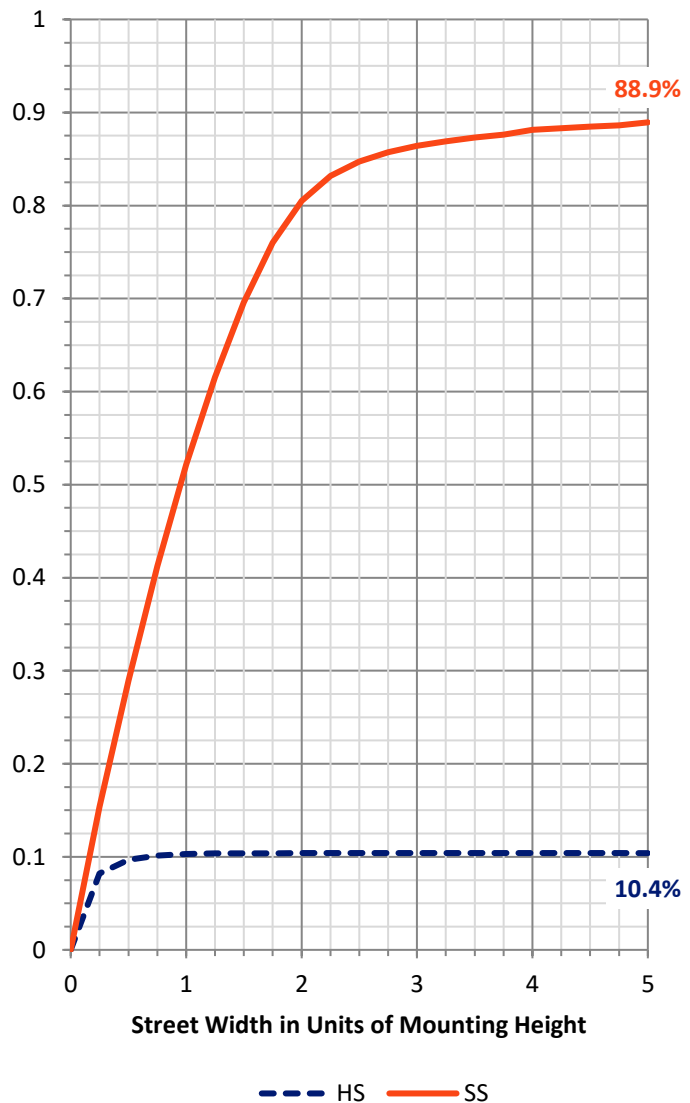
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	376.2	0.0	376.2
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	3216.5	0.0	3216.5
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	3592.7	0.0	3592.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	91.0	2.5
10°-20°	189.5	5.3
20°-30°	253.7	7.1
30°-40°	342.9	9.5
40°-50°	492.2	13.7
50°-60°	725.3	20.2
60°-70°	884.7	24.6
70°-80°	540.2	15.0
80°-90°	73.4	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°	3592.7	100.0
0°-180°	3592.7	100.0

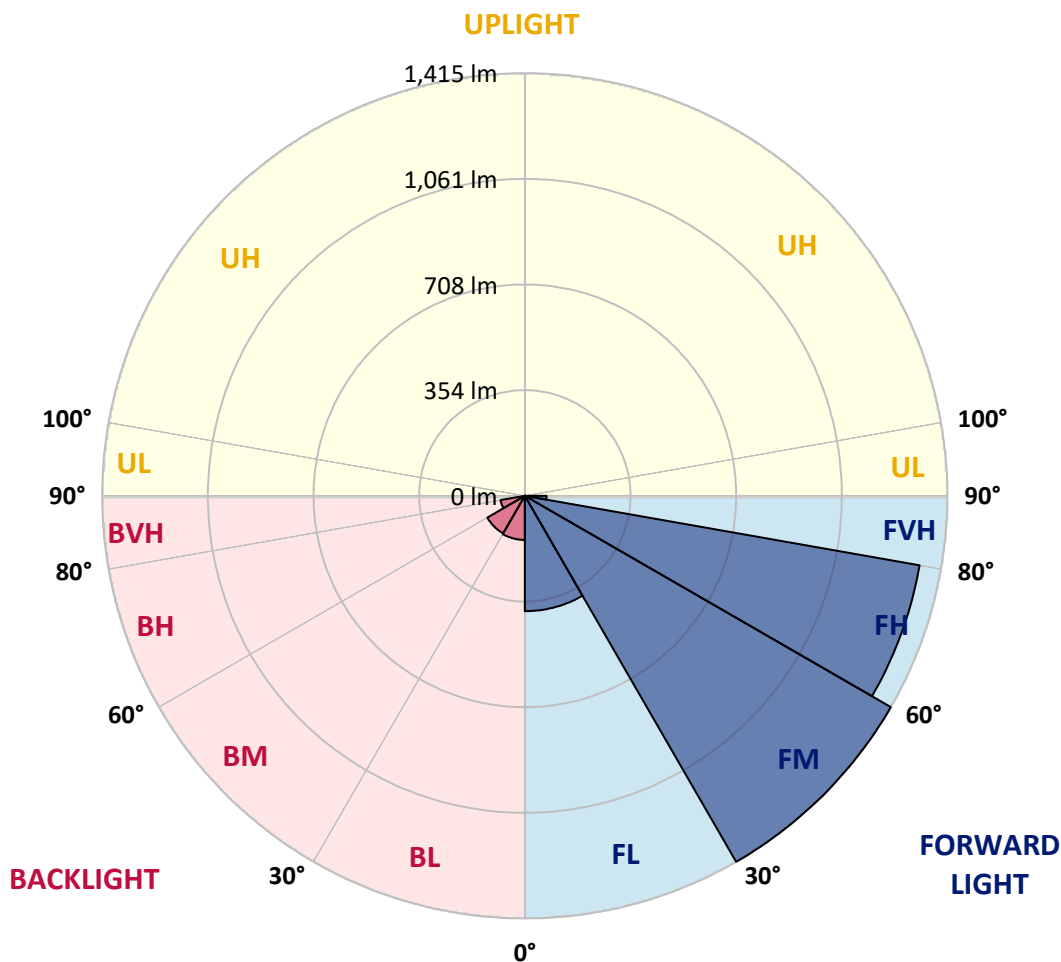


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	386.3	10.8			
FM (30°-60°)	1415.2	39.4			
FH (60°-80°)	1342.4	37.4			G1/1800
FVH (80°-90°)	72.7	2.0			G1/100
BL (0°-30°)	147.9	4.1	B1/500		
BM (30°-60°)	145.2	4.0	B0/220		
BH (60°-80°)	82.4	2.3	B0/110		G0/110
BVH (80°-90°)	0.7	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°	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3
2.5°	1135.5	1139.7	1129.6	1141.4	1130.5	1135.5	1129.6	1127.9	1128.8	1129.6	1122.9
5°	1082.4	1092.6	1096.8	1090.0	1106.0	1103.5	1113.6	1114.5	1110.2	1106.0	1106.9
7.5°	1012.5	1022.6	1026.8	1031.1	1047.1	1068.1	1081.6	1073.2	1079.9	1095.1	1072.3
10°	962.0	959.5	958.6	967.0	997.4	1015.1	1037.8	1035.3	1052.1	1066.4	1047.9
12.5°	899.7	894.6	909.8	916.5	943.5	974.6	992.3	1010.8	1027.7	1042.9	1021.8
15°	853.3	857.5	863.4	877.8	897.1	938.4	964.5	982.2	1012.5	1020.1	1011.7
17.5°	816.3	819.6	828.1	835.6	860.1	899.7	940.9	962.0	994.0	1014.2	988.1
20°	817.1	807.0	807.0	814.6	828.1	875.2	919.0	925.8	969.6	1004.1	986.4
22.5°	817.9	814.6	807.0	806.1	812.0	845.7	890.4	905.5	952.7	993.2	972.1
25°	829.7	817.1	817.9	806.1	808.7	825.5	860.9	883.6	937.6	999.1	964.5
27.5°	839.8	845.7	833.9	828.9	814.6	813.7	843.2	862.6	930.0	1012.5	969.6
30°	862.6	866.8	866.8	863.4	850.0	830.6	837.3	861.7	914.8	1010.0	961.1
32.5°	900.5	892.9	903.0	898.0	880.3	850.0	855.8	868.5	924.1	1042.0	974.6
35°	913.1	919.0	932.5	921.6	915.7	898.0	886.2	895.4	937.6	1074.0	994.8
37.5°	951.9	943.5	952.7	977.1	983.0	951.0	928.3	941.8	988.1	1111.9	1013.4
40°	955.2	962.0	978.8	1026.8	1032.7	1019.3	1000.7	1004.1	1038.6	1160.8	1059.7
42.5°	972.1	979.7	1014.2	1054.6	1086.7	1089.2	1075.7	1075.7	1105.2	1239.1	1111.1
45°	1004.9	992.3	1037.0	1105.2	1151.5	1160.8	1178.5	1174.3	1197.9	1321.7	1207.1
47.5°	1017.6	1021.8	1070.7	1153.2	1206.3	1249.2	1278.7	1279.6	1291.4	1427.0	1331.8
50°	1058.9	1058.0	1117.0	1193.6	1272.0	1350.3	1407.6	1407.6	1406.8	1529.7	1438.8
52.5°	1113.6	1111.9	1157.4	1248.4	1350.3	1448.9	1524.7	1527.2	1546.6	1656.1	1561.8
55°	1202.9	1195.3	1239.1	1306.5	1428.7	1548.3	1679.7	1680.5	1665.4	1746.2	1650.2
57.5°	1277.9	1277.0	1313.3	1378.1	1516.3	1676.3	1828.8	1851.5	1803.5	1838.9	1721.0
60°	1258.5	1269.5	1344.4	1440.5	1608.9	1836.4	1989.7	2025.1	1948.4	1902.1	1774.0
62.5°	1138.0	1163.3	1245.0	1398.3	1687.3	2068.9	2211.2	2195.2	2024.2	1956.0	1838.9
65°	818.8	844.1	945.1	1175.1	1596.3	2233.1	2502.7	2430.2	2159.0	2036.0	1925.7
67.5°	481.8	491.9	555.1	749.7	1193.6	2143.8	2856.5	2862.4	2424.3	2159.0	2075.6
70°	347.9	355.5	379.9	442.2	661.3	1680.5	3053.6	3206.9	2792.5	2300.5	1996.4
72.5°	267.0	267.0	308.3	368.1	421.2	1006.6	2810.1	3117.6	2872.5	2164.9	1608.9
75°	192.1	197.1	241.8	316.7	388.3	505.4	2070.5	2474.0	2434.5	1754.7	1123.7
77.5°	110.4	112.9	170.2	265.3	364.7	347.1	1279.6	1677.2	1724.3	1098.5	486.9
80°	56.4	58.1	95.2	209.8	330.2	302.4	763.2	1104.3	936.7	319.3	112.9
82.5°	27.8	27.8	43.0	133.9	280.5	267.9	449.0	609.9	331.9	73.3	47.2
85°	9.3	10.1	19.4	75.8	203.0	161.7	274.6	289.8	111.2	27.8	26.1
87.5°	2.5	3.4	5.1	27.8	88.4	106.1	163.4	185.3	45.5	11.0	12.6
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°	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3	1115.3
2.5°	1097.6	1091.7	1085.0	1068.1	1054.6	1037.0	1025.2	1015.9	998.2	1001.6	994.0
5°	1086.7	1075.7	1037.0	999.9	966.2	914.8	879.4	856.7	838.2	819.6	833.1
7.5°	1067.3	1041.2	980.5	911.4	839.8	772.5	705.1	664.6	635.1	608.2	607.3
10°	1034.4	992.3	897.1	807.0	696.6	608.2	522.3	454.9	411.1	379.1	378.2
12.5°	997.4	953.6	833.9	687.4	560.2	435.5	332.7	261.1	219.9	194.6	191.2
15°	973.8	909.8	754.8	581.2	423.7	283.9	184.5	139.8	123.8	117.9	117.9
17.5°	943.5	870.2	676.4	470.9	294.0	164.3	119.6	107.8	107.0	105.3	103.6
20°	930.8	839.8	606.5	375.7	186.2	116.2	102.8	100.2	100.2	98.6	96.9
22.5°	897.1	796.0	532.4	275.5	123.8	101.9	96.9	93.5	91.8	90.1	91.8
25°	882.0	764.9	462.5	190.4	101.1	91.0	88.4	85.1	82.6	81.7	81.7
27.5°	871.9	733.7	394.2	132.3	89.3	83.4	78.3	75.8	72.4	69.1	69.1
30°	864.3	709.3	328.5	97.7	80.0	74.1	69.9	64.0	59.8	56.4	56.4
32.5°	854.2	680.6	262.8	83.4	72.4	66.5	59.0	53.9	48.0	45.5	45.5
35°	857.5	661.3	206.4	74.1	64.9	57.3	50.5	43.8	37.9	35.4	34.5
37.5°	864.3	646.9	156.7	66.5	58.1	49.7	42.1	34.5	31.2	27.8	27.8
40°	892.9	642.7	115.4	61.5	53.1	43.8	35.4	28.6	25.3	22.7	21.9
42.5°	940.9	648.6	89.3	55.6	48.0	37.1	29.5	23.6	20.2	17.7	16.8
45°	1002.4	671.4	73.3	52.2	42.1	31.2	23.6	19.4	15.2	13.5	13.5
47.5°	1091.7	706.7	64.0	48.0	37.1	26.1	20.2	15.2	11.8	10.1	10.1
50°	1192.8	747.2	56.4	43.0	32.0	21.9	16.0	11.8	8.4	7.6	7.6
52.5°	1293.9	798.6	52.2	39.6	27.8	17.7	12.6	8.4	5.9	5.1	5.1
55°	1400.0	844.1	47.2	37.1	22.7	14.3	9.3	5.1	3.4	2.5	2.5
57.5°	1474.1	861.7	41.3	32.0	17.7	11.0	6.7	3.4	1.7	0.8	0.8
60°	1527.2	864.3	35.4	26.1	13.5	8.4	4.2	1.7	0.8	0.0	0.0
62.5°	1571.9	869.3	30.3	20.2	10.1	5.9	2.5	0.8	0.0	0.0	0.0
65°	1660.3	865.1	24.4	16.0	6.7	3.4	1.7	0.0	0.0	0.0	0.0
67.5°	1730.2	823.0	19.4	11.0	4.2	1.7	0.8	0.0	0.0	0.0	0.0
70°	1530.6	627.6	15.2	7.6	2.5	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	1202.1	418.7	10.1	4.2	1.7	0.8	0.0	0.0	0.0	0.0	0.0
75°	788.5	208.1	7.6	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	306.6	54.8	5.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	74.1	18.5	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.0	6.7	1.7	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.4	3.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.1	1.7	0.8	0.8	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)