

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: P677030

Luminaire Tested: **CCW-SA-1D-827-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677030  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-827-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) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

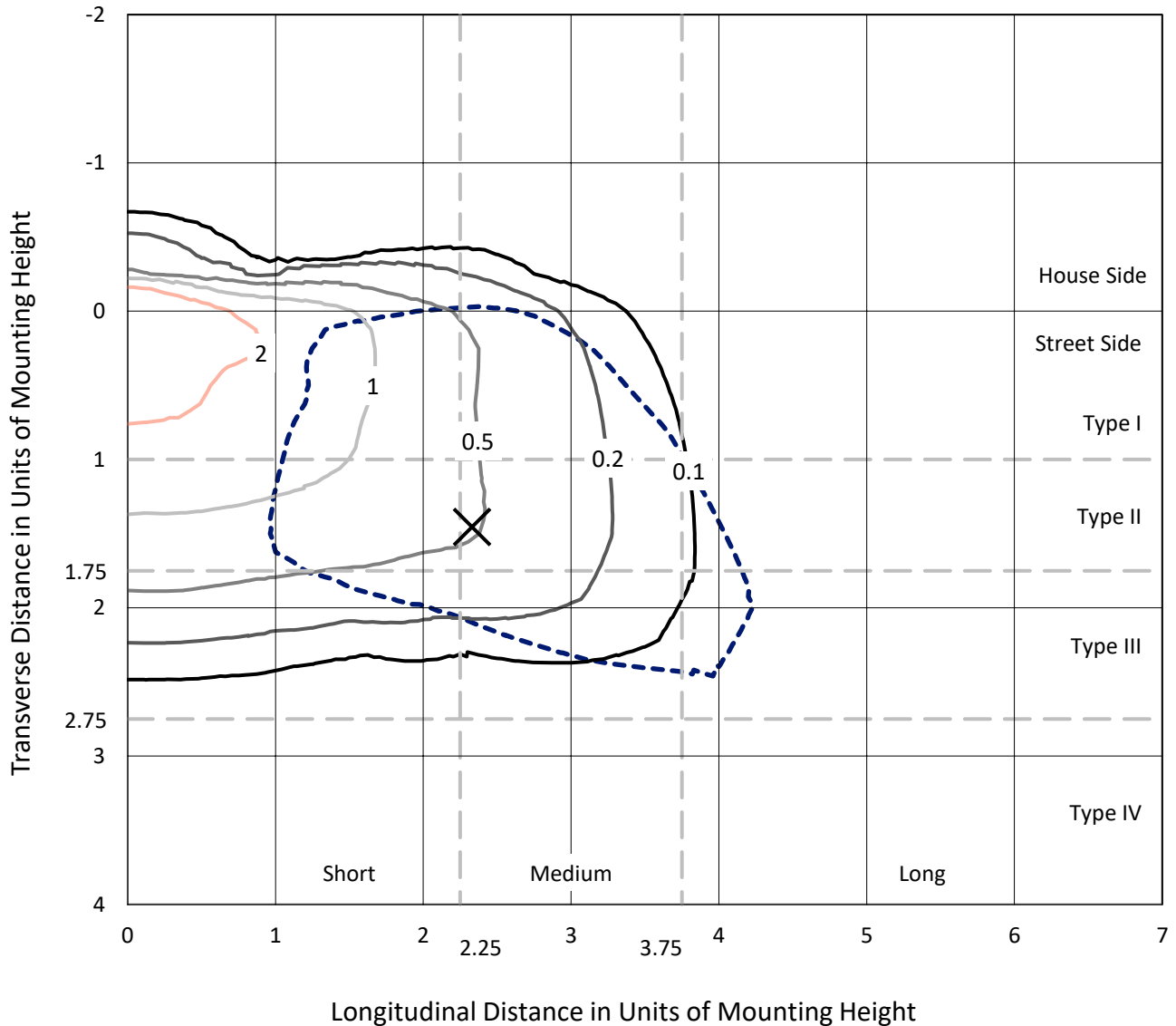
Lumens per Lamp: N/A  
Luminaire Lumens: 3387.7 lumens  
Efficiency: N/A  
Efficacy: 77.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

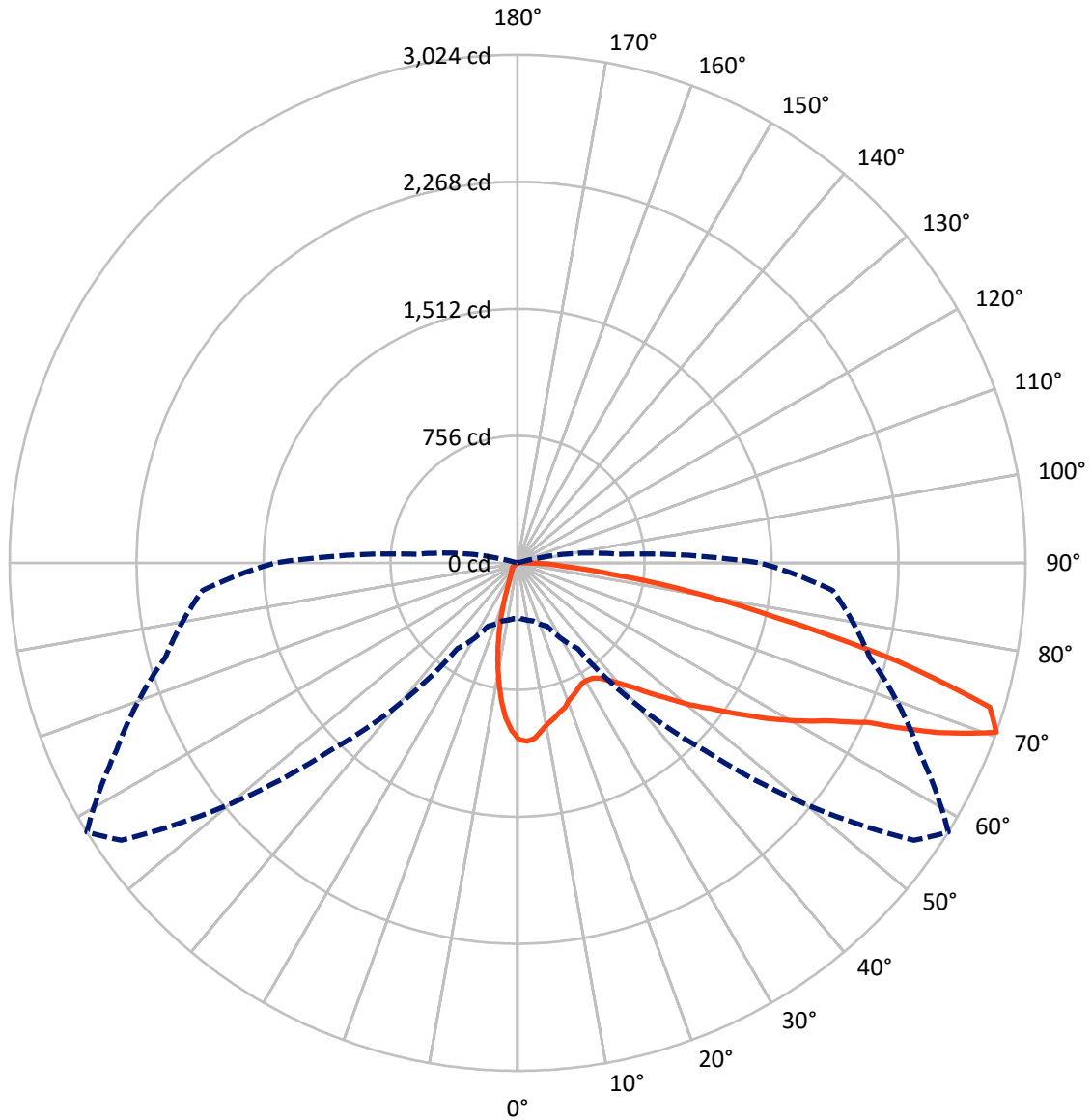
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.7 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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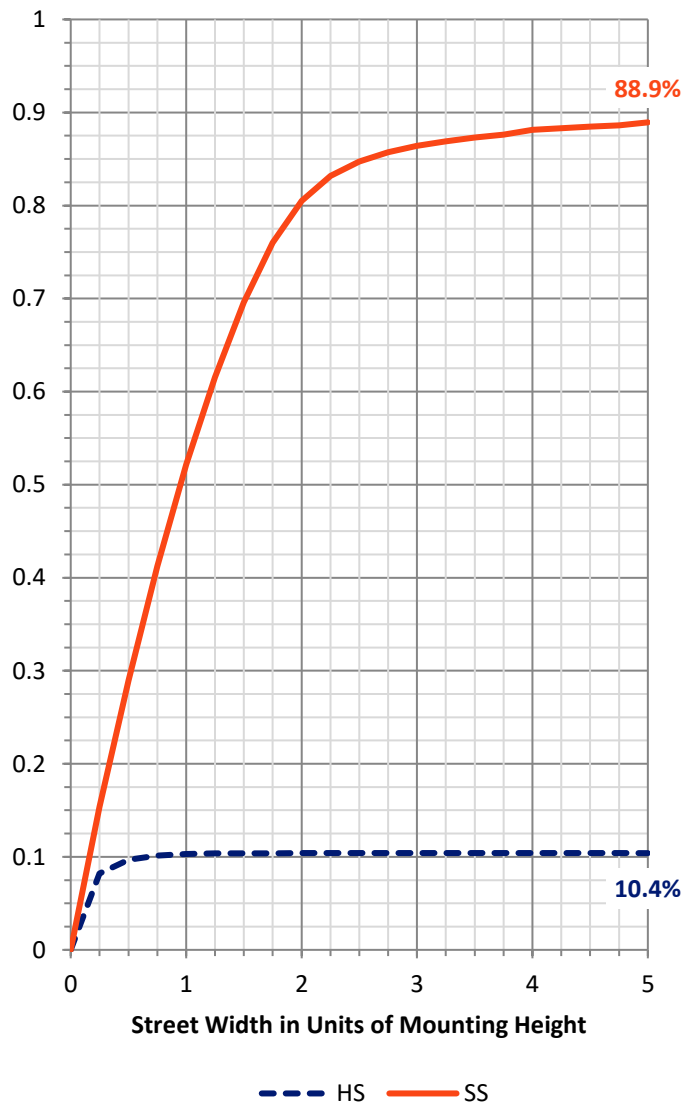
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	354.7	0.0	354.7
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	3032.9	0.0	3032.9
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	3387.7	0.0	3387.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.8	2.5
10°-20°	178.6	5.3
20°-30°	239.2	7.1
30°-40°	323.3	9.5
40°-50°	464.1	13.7
50°-60°	683.9	20.2
60°-70°	834.2	24.6
70°-80°	509.4	15.0
80°-90°	69.2	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°	3387.7	100.0
0°-180°	3387.7	100.0

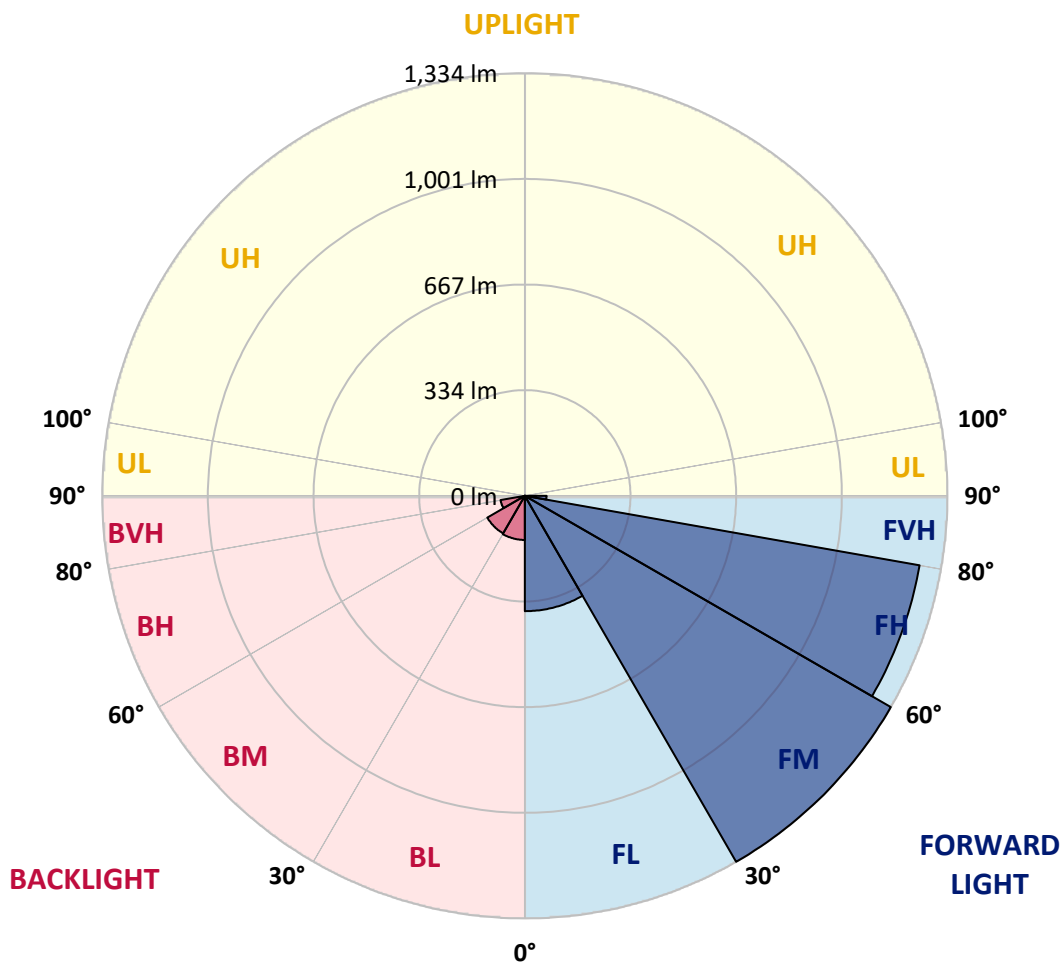


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	364.2	10.8			
FM (30°-60°)	1334.4	39.4			
FH (60°-80°)	1265.8	37.4			G1/1800
FVH (80°-90°)	68.5	2.0			G1/100
BL (0°-30°)	139.4	4.1	B1/500		
BM (30°-60°)	136.9	4.0	B0/220		
BH (60°-80°)	77.7	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°	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6
2.5°	1070.7	1074.7	1065.1	1076.3	1065.9	1070.7	1065.1	1063.5	1064.3	1065.1	1058.8
5°	1020.7	1030.2	1034.2	1027.8	1042.9	1040.5	1050.0	1050.8	1046.9	1042.9	1043.7
7.5°	954.7	964.3	968.2	972.2	987.3	1007.2	1019.9	1011.9	1018.3	1032.6	1011.1
10°	907.1	904.7	903.9	911.8	940.4	957.1	978.6	976.2	992.1	1005.6	988.1
12.5°	848.3	843.5	857.8	864.2	889.6	919.0	935.7	953.1	969.0	983.3	963.5
15°	804.6	808.6	814.1	827.6	845.9	884.8	909.5	926.1	954.7	961.9	953.9
17.5°	769.7	772.8	780.8	787.9	811.0	848.3	887.2	907.1	937.3	956.3	931.7
20°	770.5	760.9	760.9	768.1	780.8	825.3	866.6	872.9	914.2	946.8	930.1
22.5°	771.3	768.1	760.9	760.1	765.7	797.5	839.6	853.9	898.3	936.5	916.6
25°	782.4	770.5	771.3	760.1	762.5	778.4	811.8	833.2	884.0	942.0	909.5
27.5°	791.9	797.5	786.3	781.6	768.1	767.3	795.1	813.3	876.9	954.7	914.2
30°	813.3	817.3	817.3	814.1	801.4	783.2	789.5	812.6	862.6	952.3	906.3
32.5°	849.1	841.9	851.5	846.7	830.0	801.4	807.0	818.9	871.3	982.5	919.0
35°	861.0	866.6	879.3	868.9	863.4	846.7	835.6	844.3	884.0	1012.7	938.1
37.5°	897.5	889.6	898.3	921.4	926.9	896.7	875.3	888.0	931.7	1048.5	955.5
40°	900.7	907.1	923.0	968.2	973.8	961.1	943.6	946.8	979.4	1094.5	999.2
42.5°	916.6	923.8	956.3	994.4	1024.6	1027.0	1014.3	1014.3	1042.1	1168.4	1047.7
45°	947.6	935.7	977.8	1042.1	1085.8	1094.5	1111.2	1107.2	1129.5	1246.2	1138.2
47.5°	959.5	963.5	1009.5	1087.4	1137.4	1177.9	1205.7	1206.5	1217.6	1345.5	1255.8
50°	998.4	997.6	1053.2	1125.5	1199.4	1273.2	1327.3	1327.3	1326.5	1442.4	1356.6
52.5°	1050.0	1048.5	1091.3	1177.1	1273.2	1366.2	1437.7	1440.0	1458.3	1561.6	1472.6
55°	1134.2	1127.1	1168.4	1231.9	1347.1	1459.9	1583.8	1584.6	1570.3	1646.6	1556.0
57.5°	1204.9	1204.1	1238.3	1299.5	1429.7	1580.6	1724.4	1745.8	1700.6	1733.9	1622.7
60°	1186.7	1197.0	1267.7	1358.2	1517.1	1731.5	1876.1	1909.5	1837.2	1793.5	1672.8
62.5°	1073.1	1096.9	1174.0	1318.5	1591.0	1950.8	2085.0	2069.9	1908.7	1844.3	1733.9
65°	772.0	795.9	891.2	1108.0	1505.2	2105.7	2359.8	2291.5	2035.8	1919.8	1815.7
67.5°	454.3	463.9	523.4	706.9	1125.5	2021.5	2693.4	2699.0	2286.0	2035.8	1957.1
70°	328.0	335.2	358.2	417.0	623.5	1584.6	2879.3	3023.8	2633.1	2169.2	1882.5
72.5°	251.8	251.8	290.7	347.1	397.1	949.2	2649.7	2939.6	2708.5	2041.3	1517.1
75°	181.1	185.9	228.0	298.7	366.2	476.6	1952.4	2332.8	2295.5	1654.5	1059.6
77.5°	104.1	106.4	160.4	250.2	343.9	327.2	1206.5	1581.4	1625.9	1035.7	459.1
80°	53.2	54.8	89.8	197.8	311.4	285.1	719.6	1041.3	883.2	301.0	106.4
82.5°	26.2	26.2	40.5	126.3	264.5	252.6	423.4	575.1	312.9	69.1	44.5
85°	8.7	9.5	18.3	71.5	191.4	152.5	258.9	273.2	104.8	26.2	24.6
87.5°	2.4	3.2	4.8	26.2	83.4	100.1	154.1	174.7	42.9	10.3	11.9
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°	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6	1051.6
2.5°	1035.0	1029.4	1023.0	1007.2	994.4	977.8	966.6	957.9	941.2	944.4	937.3
5°	1024.6	1014.3	977.8	942.8	911.0	862.6	829.2	807.8	790.3	772.8	785.5
7.5°	1006.4	981.7	924.5	859.4	791.9	728.4	664.8	626.7	598.9	573.5	572.7
10°	975.4	935.7	845.9	760.9	656.9	573.5	492.5	428.9	387.6	357.4	356.6
12.5°	940.4	899.1	786.3	648.1	528.2	410.6	313.7	246.2	207.3	183.5	180.3
15°	918.2	857.8	711.7	548.1	399.5	267.7	173.9	131.9	116.8	111.2	111.2
17.5°	889.6	820.5	637.8	444.0	277.2	154.9	112.8	101.7	100.9	99.3	97.7
20°	877.7	791.9	571.9	354.3	175.5	109.6	96.9	94.5	94.5	92.9	91.3
22.5°	845.9	750.6	502.0	259.7	116.8	96.1	91.3	88.2	86.6	85.0	86.6
25°	831.6	721.2	436.1	179.5	95.3	85.8	83.4	80.2	77.8	77.0	77.0
27.5°	822.1	691.8	371.7	124.7	84.2	78.6	73.9	71.5	68.3	65.1	65.1
30°	814.9	668.8	309.8	92.1	75.5	69.9	65.9	60.4	56.4	53.2	53.2
32.5°	805.4	641.8	247.8	78.6	68.3	62.7	55.6	50.8	45.3	42.9	42.9
35°	808.6	623.5	194.6	69.9	61.2	54.0	47.7	41.3	35.7	33.4	32.6
37.5°	814.9	610.0	147.7	62.7	54.8	46.9	39.7	32.6	29.4	26.2	26.2
40°	841.9	606.0	108.8	58.0	50.0	41.3	33.4	27.0	23.8	21.4	20.7
42.5°	887.2	611.6	84.2	52.4	45.3	34.9	27.8	22.2	19.1	16.7	15.9
45°	945.2	633.0	69.1	49.2	39.7	29.4	22.2	18.3	14.3	12.7	12.7
47.5°	1029.4	666.4	60.4	45.3	34.9	24.6	19.1	14.3	11.1	9.5	9.5
50°	1124.7	704.5	53.2	40.5	30.2	20.7	15.1	11.1	7.9	7.1	7.1
52.5°	1220.0	753.0	49.2	37.3	26.2	16.7	11.9	7.9	5.6	4.8	4.8
55°	1320.1	795.9	44.5	34.9	21.4	13.5	8.7	4.8	3.2	2.4	2.4
57.5°	1390.0	812.6	38.9	30.2	16.7	10.3	6.4	3.2	1.6	0.8	0.8
60°	1440.0	814.9	33.4	24.6	12.7	7.9	4.0	1.6	0.8	0.0	0.0
62.5°	1482.1	819.7	28.6	19.1	9.5	5.6	2.4	0.8	0.0	0.0	0.0
65°	1565.5	815.7	23.0	15.1	6.4	3.2	1.6	0.0	0.0	0.0	0.0
67.5°	1631.5	776.0	18.3	10.3	4.0	1.6	0.8	0.0	0.0	0.0	0.0
70°	1443.2	591.7	14.3	7.1	2.4	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	1133.4	394.8	9.5	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0
75°	743.5	196.2	7.1	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	289.1	51.6	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	69.9	17.5	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.2	6.4	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.3	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	1.6	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)