

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: P677033

Luminaire Tested: **CCW-SA-2A-827-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677033  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-827-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) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

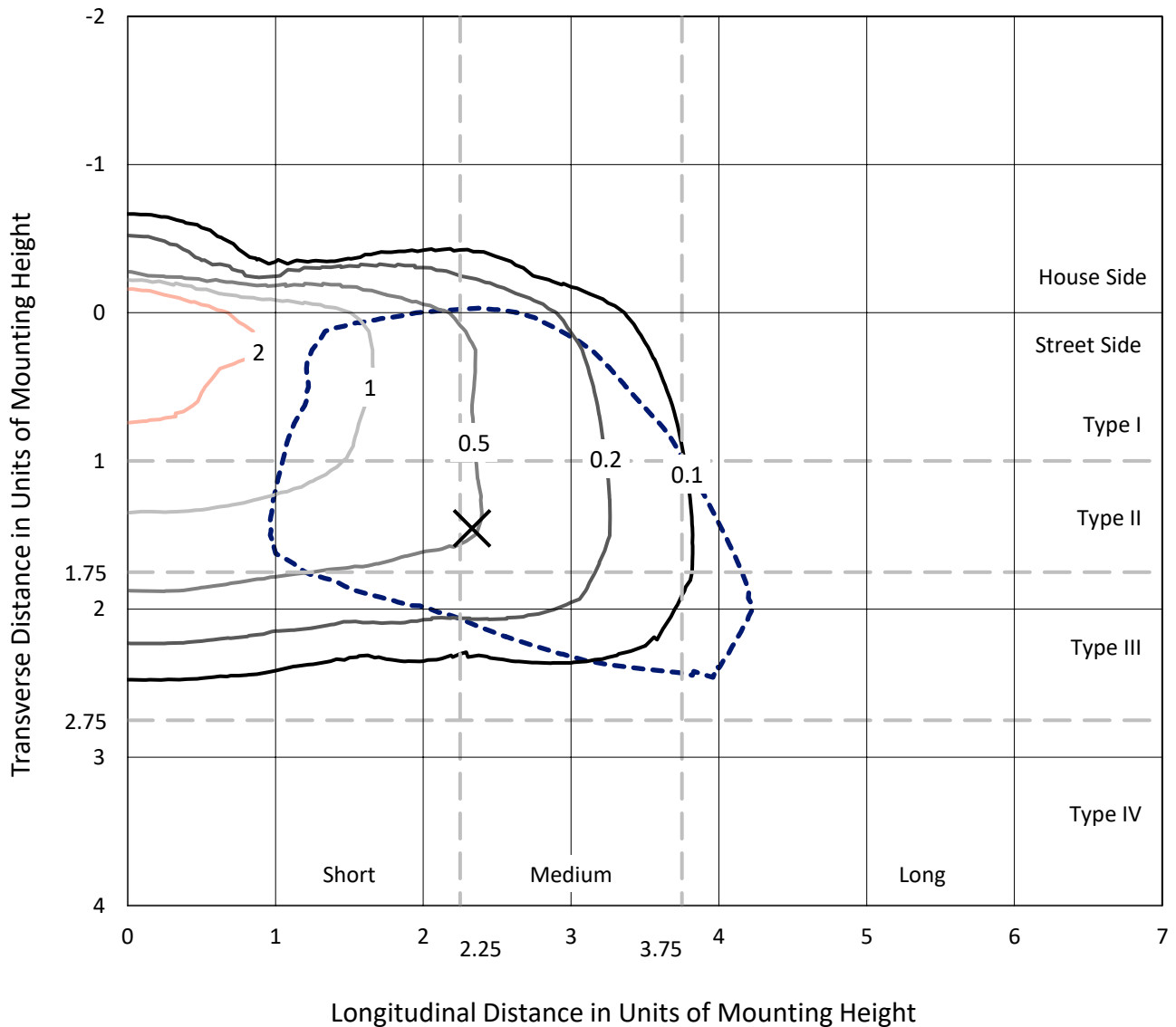
Lumens per Lamp: N/A  
Luminaire Lumens: 3323.7 lumens  
Efficiency: N/A  
Efficacy: 91.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

REPORT NUMBER: P677033  
 CATALOG NUMBER: CCW-SA-2A-827-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

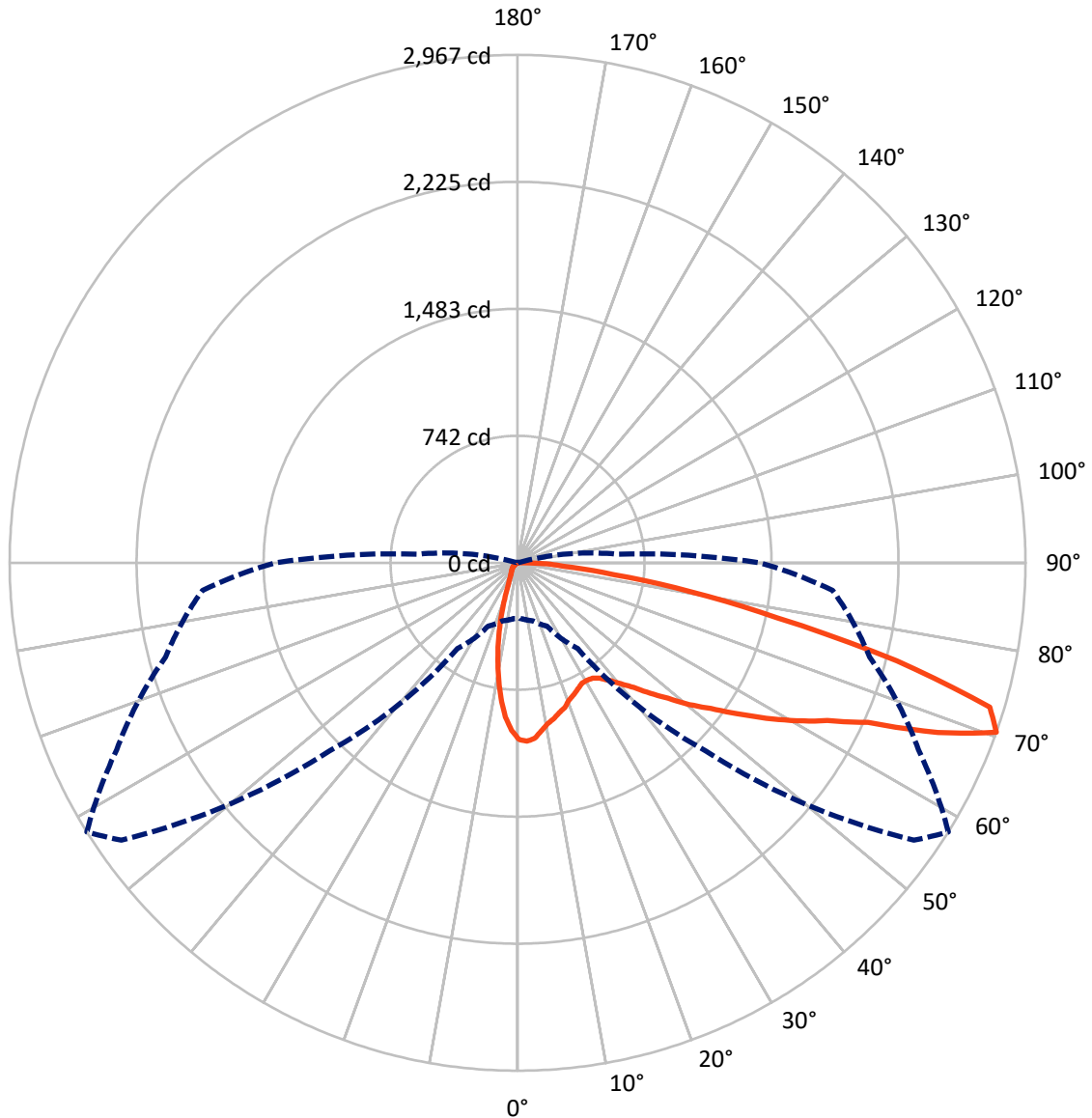
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Medium - N/A

REPORT NUMBER: P677033  
CATALOG NUMBER: CCW-SA-2A-827-U-SL3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P677033  
 CATALOG NUMBER: CCW-SA-2A-827-U-SL3-HSS

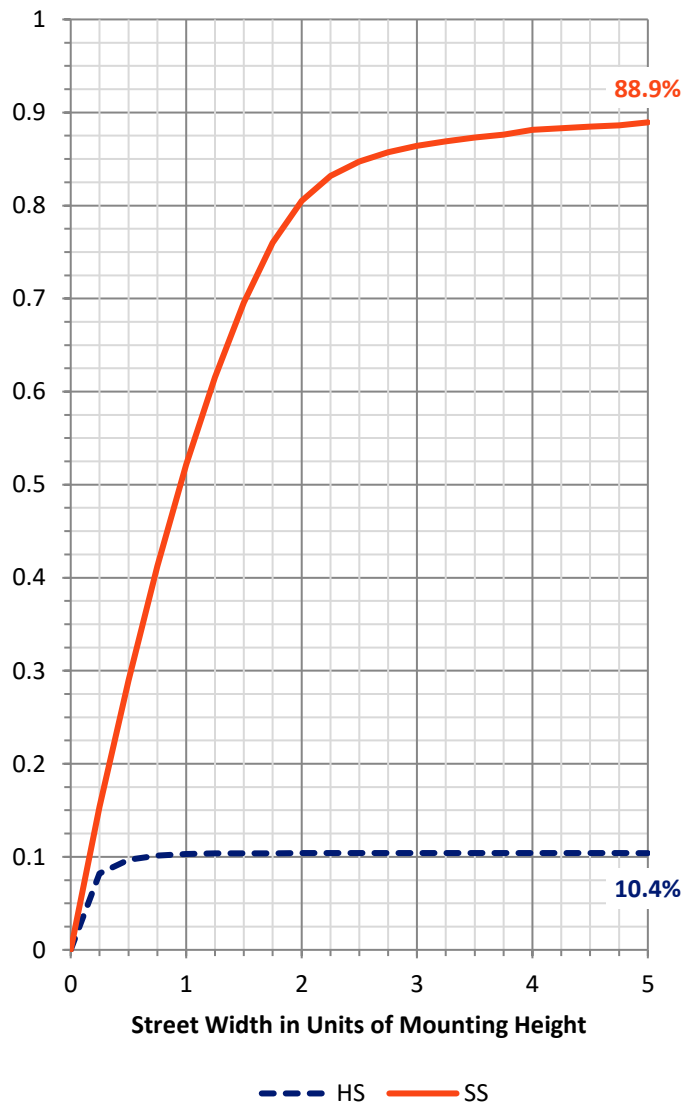
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	348.1	0.0	348.1
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	2975.7	0.0	2975.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	3323.7	0.0	3323.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.2	2.5
10°-20°	175.3	5.3
20°-30°	234.7	7.1
30°-40°	317.2	9.5
40°-50°	455.3	13.7
50°-60°	671.0	20.2
60°-70°	818.4	24.6
70°-80°	499.8	15.0
80°-90°	67.9	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°	3323.7	100.0
0°-180°	3323.7	100.0

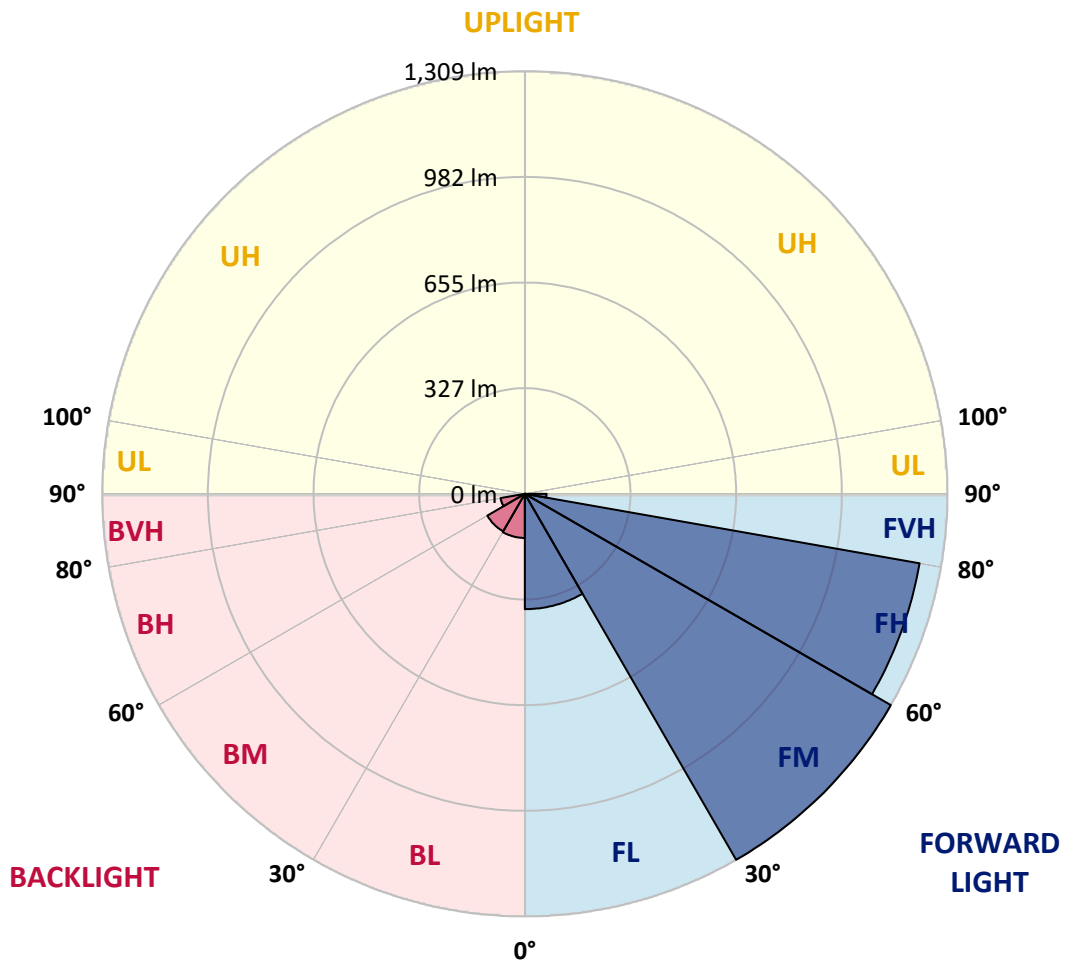


REPORT NUMBER: P677033  
 CATALOG NUMBER: CCW-SA-2A-827-U-SL3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	357.4	10.8			
FM (30°-60°)	1309.2	39.4			
FH (60°-80°)	1241.9	37.4			G1/1800
FVH (80°-90°)	67.2	2.0			G1/100
BL (0°-30°)	136.8	4.1	B1/500		
BM (30°-60°)	134.3	4.0	B0/220		
BH (60°-80°)	76.3	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





REPORT NUMBER: P677033

CATALOG NUMBER: CCW-SA-2A-827-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8
2.5°	1050.5	1054.4	1045.0	1055.9	1045.8	1050.5	1045.0	1043.5	1044.3	1045.0	1038.8
5°	1001.4	1010.7	1014.6	1008.4	1023.2	1020.9	1030.2	1031.0	1027.1	1023.2	1024.0
7.5°	936.7	946.1	950.0	953.9	968.7	988.1	1000.6	992.8	999.1	1013.1	992.0
10°	890.0	887.6	886.8	894.6	922.7	939.0	960.1	957.8	973.3	986.6	969.4
12.5°	832.3	827.6	841.6	847.9	872.8	901.6	918.0	935.2	950.7	964.8	945.3
15°	789.4	793.3	798.8	812.0	829.9	868.1	892.3	908.7	936.7	943.7	935.9
17.5°	755.1	758.3	766.0	773.1	795.7	832.3	870.5	890.0	919.6	938.3	914.1
20°	755.9	746.6	746.6	753.6	766.0	809.7	850.2	856.4	897.0	928.9	912.6
22.5°	756.7	753.6	746.6	745.8	751.2	782.4	823.7	837.7	881.4	918.8	899.3
25°	767.6	755.9	756.7	745.8	748.1	763.7	796.4	817.5	867.4	924.2	892.3
27.5°	777.0	782.4	771.5	766.8	753.6	752.8	780.1	798.0	860.3	936.7	897.0
30°	798.0	801.9	801.9	798.8	786.3	768.4	774.6	797.2	846.3	934.4	889.2
32.5°	833.1	826.1	835.4	830.7	814.4	786.3	791.8	803.5	854.9	964.0	901.6
35°	844.8	850.2	862.7	852.5	847.1	830.7	819.8	828.4	867.4	993.6	920.3
37.5°	880.6	872.8	881.4	904.0	909.4	879.8	858.8	871.3	914.1	1028.7	937.5
40°	883.7	890.0	905.5	950.0	955.4	942.9	925.8	928.9	960.9	1073.9	980.4
42.5°	899.3	906.3	938.3	975.7	1005.3	1007.6	995.2	995.2	1022.4	1146.3	1027.9
45°	929.7	918.0	959.3	1022.4	1065.3	1073.9	1090.2	1086.3	1108.2	1222.7	1116.7
47.5°	941.4	945.3	990.5	1066.9	1115.9	1155.7	1183.0	1183.7	1194.7	1320.1	1232.1
50°	979.6	978.8	1033.3	1104.3	1176.7	1249.2	1302.2	1302.2	1301.4	1415.2	1331.0
52.5°	1030.2	1028.7	1070.7	1154.9	1249.2	1340.4	1410.5	1412.9	1430.8	1532.1	1444.8
55°	1112.8	1105.8	1146.3	1208.7	1321.7	1432.3	1553.9	1554.7	1540.7	1615.5	1526.6
57.5°	1182.2	1181.4	1214.9	1274.9	1402.7	1550.8	1691.8	1712.9	1668.5	1701.2	1592.1
60°	1164.3	1174.4	1243.8	1332.6	1488.5	1698.9	1840.7	1873.4	1802.5	1759.6	1641.2
62.5°	1052.8	1076.2	1151.8	1293.6	1560.9	1913.9	2045.6	2030.8	1872.6	1809.5	1701.2
65°	757.5	780.9	874.4	1087.1	1476.8	2065.9	2315.3	2248.3	1997.3	1883.6	1781.5
67.5°	445.8	455.1	513.6	693.6	1104.3	1983.3	2642.6	2648.0	2242.8	1997.3	1920.2
70°	321.8	328.9	351.5	409.1	611.7	1554.7	2824.9	2966.8	2583.4	2128.3	1846.9
72.5°	247.0	247.0	285.2	340.6	389.6	931.3	2599.7	2884.2	2657.4	2002.8	1488.5
75°	177.7	182.4	223.7	293.0	359.3	467.6	1915.5	2288.8	2252.2	1623.3	1039.6
77.5°	102.1	104.4	157.4	245.5	337.4	321.1	1183.7	1551.6	1595.2	1016.2	450.4
80°	52.2	53.8	88.1	194.0	305.5	279.8	706.0	1021.7	866.6	295.4	104.4
82.5°	25.7	25.7	39.7	123.9	259.5	247.8	415.4	564.2	307.0	67.8	43.6
85°	8.6	9.4	17.9	70.1	187.8	149.6	254.0	268.1	102.9	25.7	24.2
87.5°	2.3	3.1	4.7	25.7	81.8	98.2	151.2	171.4	42.1	10.1	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P677033  
 CATALOG NUMBER: CCW-SA-2A-827-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8	1031.8
2.5°	1015.4	1010.0	1003.7	988.1	975.7	959.3	948.4	939.8	923.5	926.6	919.6
5°	1005.3	995.2	959.3	925.0	893.8	846.3	813.6	792.5	775.4	758.3	770.7
7.5°	987.4	963.2	907.1	843.2	777.0	714.6	652.3	614.9	587.6	562.6	561.9
10°	957.0	918.0	829.9	746.6	644.5	562.6	483.2	420.8	380.3	350.7	349.9
12.5°	922.7	882.2	771.5	635.9	518.2	402.9	307.8	241.6	203.4	180.0	176.9
15°	900.9	841.6	698.2	537.7	392.0	262.6	170.7	129.4	114.6	109.1	109.1
17.5°	872.8	805.0	625.8	435.6	272.0	152.0	110.7	99.7	99.0	97.4	95.9
20°	861.1	777.0	561.1	347.6	172.2	107.5	95.1	92.7	92.7	91.2	89.6
22.5°	829.9	736.4	492.5	254.8	114.6	94.3	89.6	86.5	84.9	83.4	84.9
25°	815.9	707.6	427.8	176.1	93.5	84.2	81.8	78.7	76.4	75.6	75.6
27.5°	806.6	678.8	364.7	122.3	82.6	77.2	72.5	70.1	67.0	63.9	63.9
30°	799.6	656.2	303.9	90.4	74.0	68.6	64.7	59.2	55.3	52.2	52.2
32.5°	790.2	629.7	243.1	77.2	67.0	61.6	54.6	49.9	44.4	42.1	42.1
35°	793.3	611.7	190.9	68.6	60.0	53.0	46.8	40.5	35.1	32.7	32.0
37.5°	799.6	598.5	144.9	61.6	53.8	46.0	39.0	32.0	28.8	25.7	25.7
40°	826.1	594.6	106.8	56.9	49.1	40.5	32.7	26.5	23.4	21.0	20.3
42.5°	870.5	600.1	82.6	51.4	44.4	34.3	27.3	21.8	18.7	16.4	15.6
45°	927.4	621.1	67.8	48.3	39.0	28.8	21.8	17.9	14.0	12.5	12.5
47.5°	1010.0	653.8	59.2	44.4	34.3	24.2	18.7	14.0	10.9	9.4	9.4
50°	1103.5	691.2	52.2	39.7	29.6	20.3	14.8	10.9	7.8	7.0	7.0
52.5°	1197.0	738.8	48.3	36.6	25.7	16.4	11.7	7.8	5.5	4.7	4.7
55°	1295.2	780.9	43.6	34.3	21.0	13.2	8.6	4.7	3.1	2.3	2.3
57.5°	1363.8	797.2	38.2	29.6	16.4	10.1	6.2	3.1	1.6	0.8	0.8
60°	1412.9	799.6	32.7	24.2	12.5	7.8	3.9	1.6	0.8	0.0	0.0
62.5°	1454.2	804.2	28.1	18.7	9.4	5.5	2.3	0.8	0.0	0.0	0.0
65°	1536.0	800.3	22.6	14.8	6.2	3.1	1.6	0.0	0.0	0.0	0.0
67.5°	1600.7	761.4	17.9	10.1	3.9	1.6	0.8	0.0	0.0	0.0	0.0
70°	1416.0	580.6	14.0	7.0	2.3	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	1112.1	387.3	9.4	3.9	1.6	0.8	0.0	0.0	0.0	0.0	0.0
75°	729.4	192.5	7.0	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	283.7	50.7	4.7	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	68.6	17.1	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.6	6.2	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.9	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.4	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)