

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: P677073

Luminaire Tested: **CCW-SA-1C-850-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677073  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-850-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

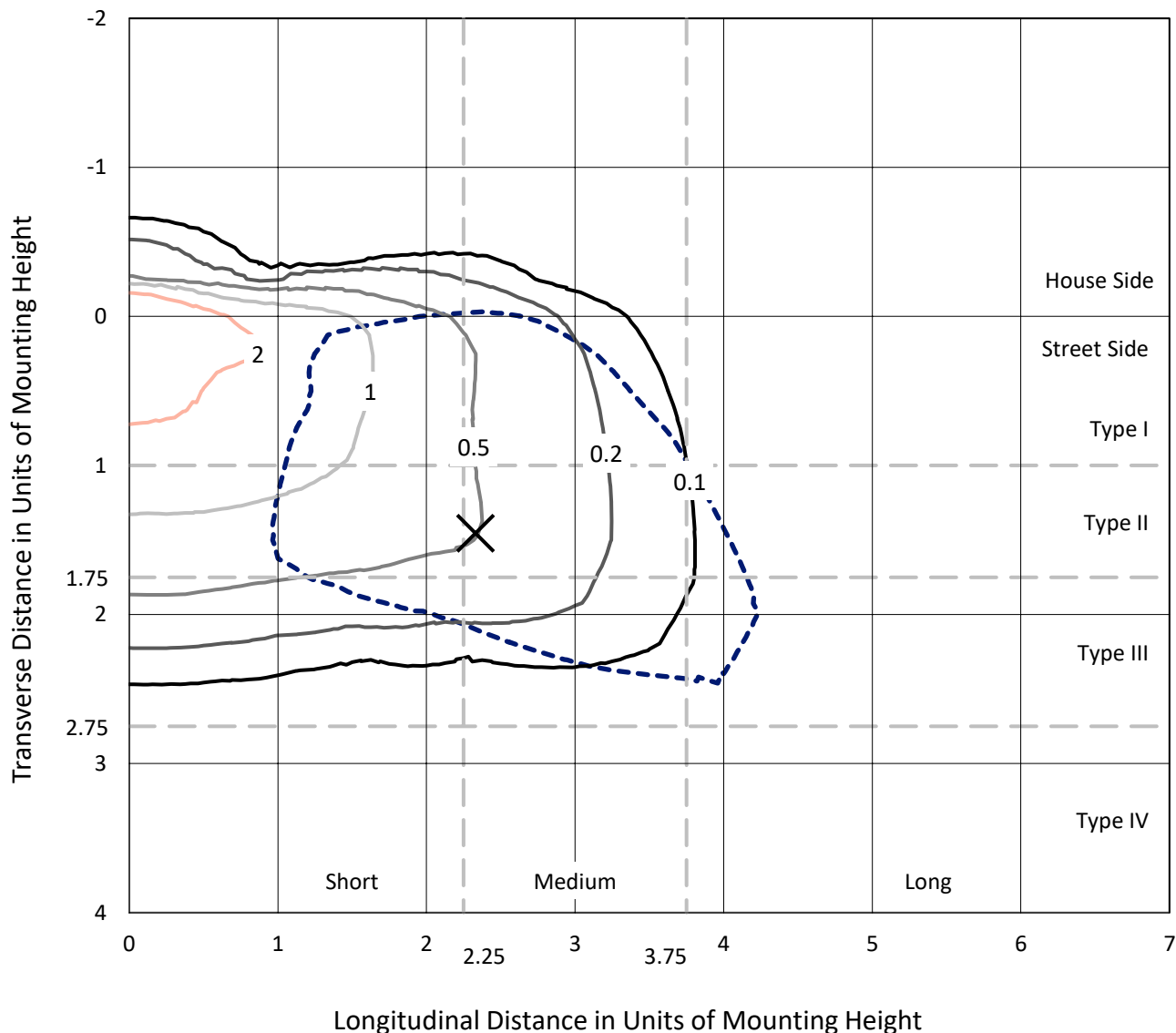
Lumens per Lamp: N/A  
Luminaire Lumens: 3260.1 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
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

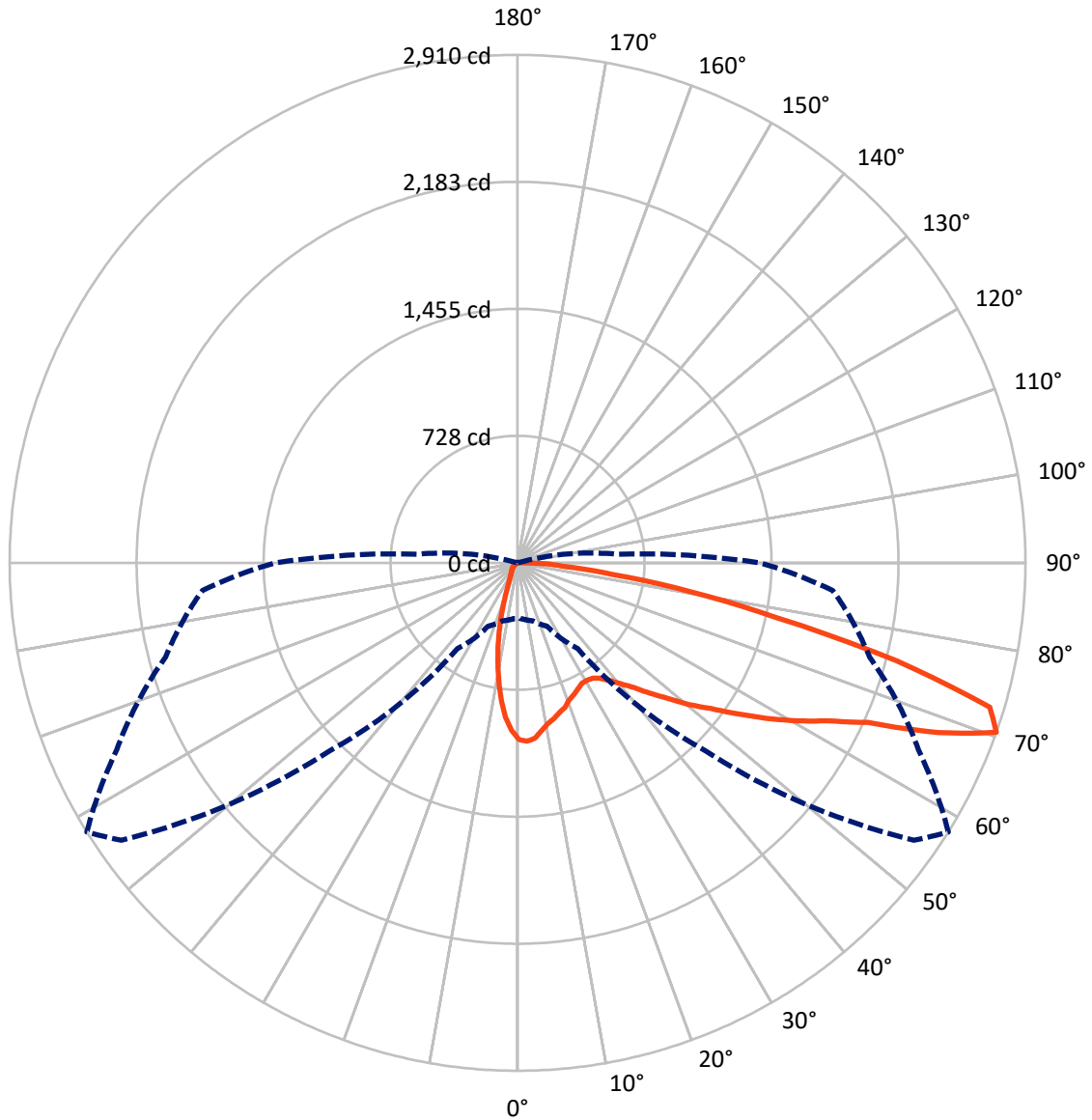
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 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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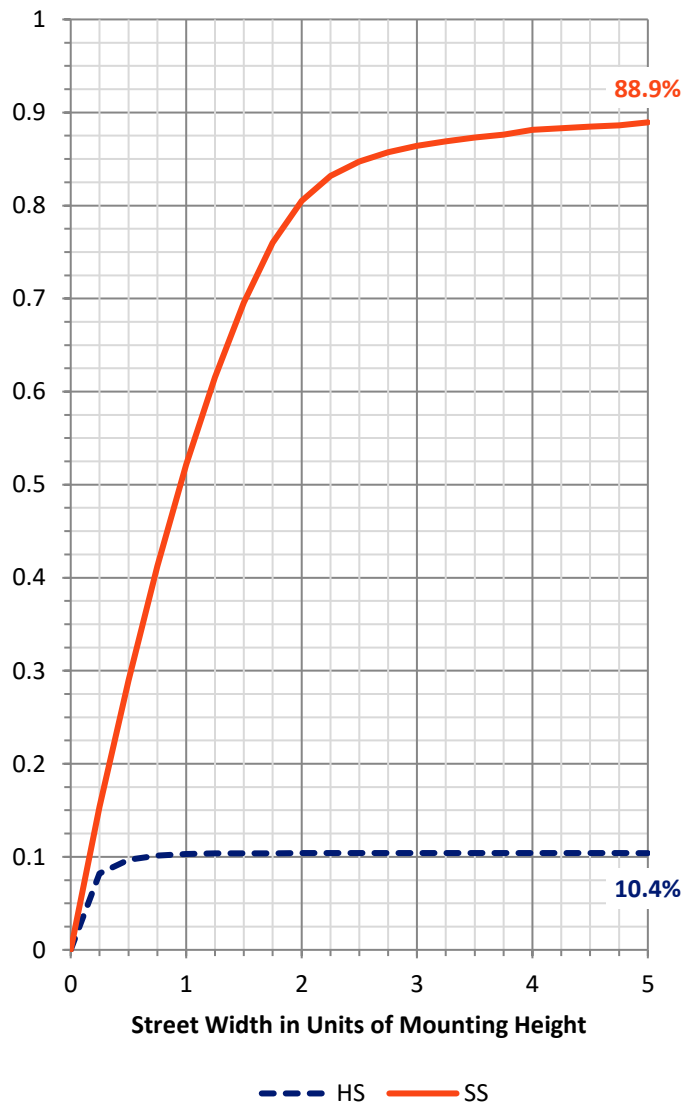
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	341.4	0.0	341.4
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	2918.7	0.0	2918.7
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	3260.1	0.0	3260.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	2.5
10°-20°	171.9	5.3
20°-30°	230.2	7.1
30°-40°	311.2	9.5
40°-50°	446.6	13.7
50°-60°	658.1	20.2
60°-70°	802.8	24.6
70°-80°	490.2	15.0
80°-90°	66.6	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°	3260.1	100.0
0°-180°	3260.1	100.0

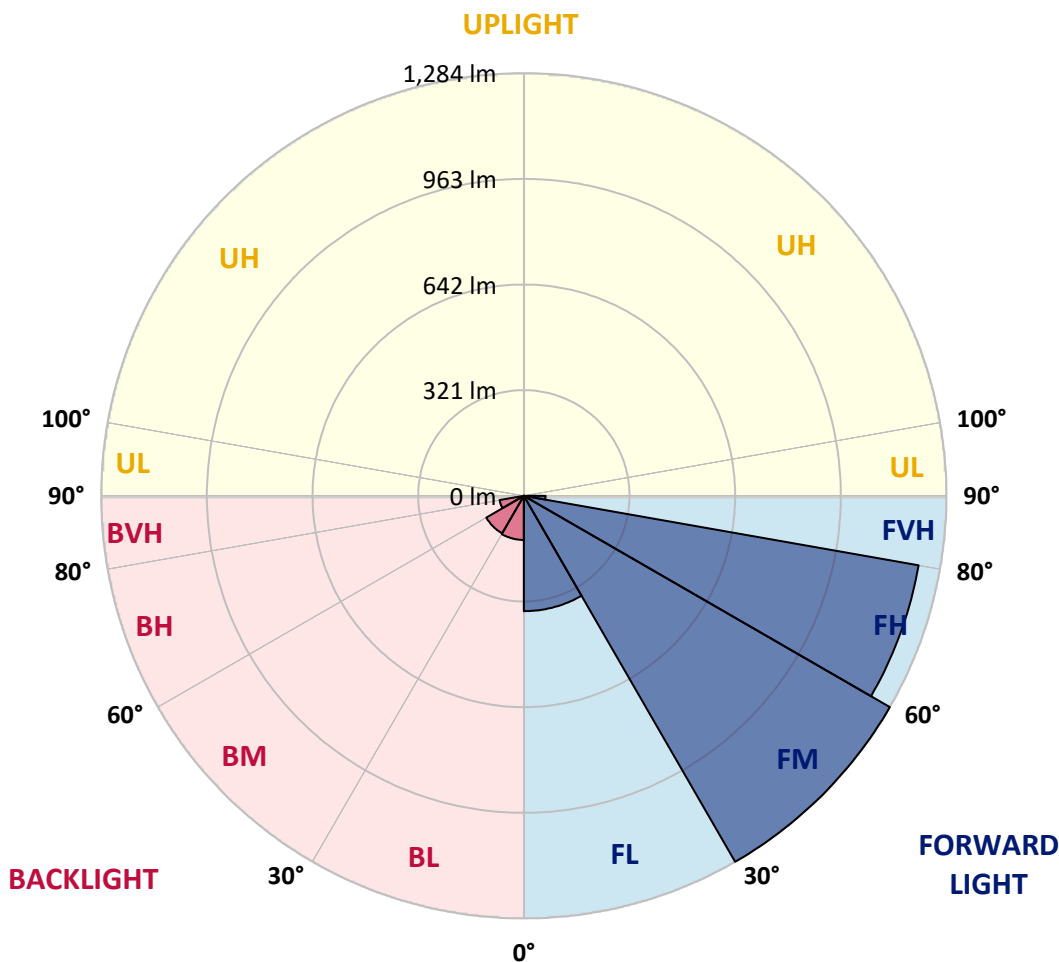


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	350.5	10.8			
FM (30°-60°)	1284.1	39.4			
FH (60°-80°)	1218.1	37.4			G1/1800
FVH (80°-90°)	65.9	2.0			G1/100
BL (0°-30°)	134.2	4.1	B1/500		
BM (30°-60°)	131.8	4.0	B0/220		
BH (60°-80°)	74.8	2.3	B0/110		G0/110
BVH (80°-90°)	0.6	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°	1012.0	1012.0	1012.0	1012.0	1012.0	1012.0	1012.0	1012.0	1012.0	1012.0	1012.0
2.5°	1030.4	1034.2	1025.0	1035.7	1025.8	1030.4	1025.0	1023.5	1024.3	1025.0	1018.9
5°	982.2	991.4	995.2	989.1	1003.6	1001.3	1010.5	1011.3	1007.5	1003.6	1004.4
7.5°	918.8	928.0	931.8	935.6	950.1	969.2	981.5	973.8	979.9	993.7	973.1
10°	872.9	870.6	869.9	877.5	905.0	921.1	941.7	939.4	954.7	967.7	950.9
12.5°	816.4	811.8	825.5	831.7	856.1	884.4	900.4	917.3	932.6	946.3	927.2
15°	774.3	778.1	783.5	796.5	814.1	851.5	875.2	891.3	918.8	925.7	918.0
17.5°	740.7	743.7	751.4	758.3	780.4	816.4	853.8	872.9	902.0	920.3	896.6
20°	741.5	732.3	732.3	739.2	751.4	794.2	833.9	840.1	879.8	911.1	895.1
22.5°	742.2	739.2	732.3	731.5	736.9	767.4	808.0	821.7	864.5	901.2	882.1
25°	752.9	741.5	742.2	731.5	733.8	749.1	781.2	801.8	850.8	906.6	875.2
27.5°	762.1	767.4	756.7	752.2	739.2	738.4	765.2	782.7	843.9	918.8	879.8
30°	782.7	786.6	786.6	783.5	771.3	753.7	759.8	782.0	830.1	916.5	872.2
32.5°	817.1	810.2	819.4	814.8	798.8	771.3	776.6	788.1	838.5	945.5	884.4
35°	828.6	833.9	846.2	836.2	830.9	814.8	804.1	812.5	850.8	974.6	902.7
37.5°	863.8	856.1	864.5	886.7	892.0	863.0	842.4	854.6	896.6	1009.0	919.6
40°	866.8	872.9	888.2	931.8	937.1	924.9	908.1	911.1	942.5	1053.3	961.6
42.5°	882.1	889.0	920.3	957.0	986.1	988.4	976.1	976.1	1002.9	1124.4	1008.2
45°	911.9	900.4	941.0	1002.9	1044.9	1053.3	1069.4	1065.6	1087.0	1199.3	1095.4
47.5°	923.4	927.2	971.5	1046.4	1094.6	1133.6	1160.3	1161.1	1171.8	1294.9	1208.5
50°	960.8	960.1	1013.6	1083.1	1154.2	1225.3	1277.3	1277.3	1276.5	1388.1	1305.6
52.5°	1010.5	1009.0	1050.3	1132.8	1225.3	1314.7	1383.5	1385.8	1403.4	1502.8	1417.2
55°	1091.5	1084.7	1124.4	1185.6	1296.4	1404.9	1524.2	1525.0	1511.2	1584.6	1497.4
57.5°	1159.6	1158.8	1191.7	1250.5	1375.9	1521.1	1659.5	1680.1	1636.6	1668.7	1561.6
60°	1142.0	1151.9	1220.0	1307.1	1460.0	1666.4	1805.5	1837.6	1768.0	1726.0	1609.8
62.5°	1032.7	1055.6	1129.8	1268.9	1531.1	1877.3	2006.5	1992.0	1836.8	1774.9	1668.7
65°	743.0	765.9	857.6	1066.3	1448.5	2026.4	2271.0	2205.3	1959.1	1847.5	1747.4
67.5°	437.2	446.4	503.7	680.3	1083.1	1945.4	2592.0	2597.4	2199.9	1959.1	1883.4
70°	315.7	322.6	344.7	401.3	600.0	1525.0	2770.9	2910.0	2533.9	2087.5	1811.6
72.5°	242.3	242.3	279.8	334.0	382.2	913.4	2550.0	2829.0	2606.6	1964.5	1460.0
75°	174.3	178.9	219.4	287.4	352.4	458.6	1878.9	2245.0	2209.1	1592.2	1019.7
77.5°	100.1	102.4	154.4	240.8	331.0	314.9	1161.1	1521.9	1564.7	996.8	441.8
80°	51.2	52.7	86.4	190.3	299.6	274.4	692.5	1002.1	850.0	289.7	102.4
82.5°	25.2	25.2	39.0	121.5	254.5	243.1	407.4	553.4	301.2	66.5	42.8
85°	8.4	9.2	17.6	68.8	184.2	146.8	249.2	262.9	100.9	25.2	23.7
87.5°	2.3	3.1	4.6	25.2	80.3	96.3	148.3	168.2	41.3	9.9	11.5
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°	1012.0	1012.0	1012.0	1012.0	1012.0	1012.0	1012.0	1012.0	1012.0	1012.0	1012.0
2.5°	996.0	990.6	984.5	969.2	957.0	941.0	930.3	921.8	905.8	908.9	902.0
5°	986.1	976.1	941.0	907.3	876.8	830.1	798.0	777.4	760.6	743.7	756.0
7.5°	968.5	944.8	889.7	827.1	762.1	700.9	639.8	603.1	576.3	551.9	551.1
10°	938.7	900.4	814.1	732.3	632.1	551.9	473.9	412.8	373.0	344.0	343.2
12.5°	905.0	865.3	756.7	623.7	508.3	395.2	301.9	237.0	199.5	176.6	173.5
15°	883.6	825.5	684.9	527.4	384.5	257.6	167.4	126.9	112.4	107.0	107.0
17.5°	856.1	789.6	613.8	427.3	266.8	149.1	108.5	97.8	97.1	95.5	94.0
20°	844.6	762.1	550.4	340.9	168.9	105.5	93.3	91.0	91.0	89.4	87.9
22.5°	814.1	722.3	483.1	250.0	112.4	92.5	87.9	84.8	83.3	81.8	83.3
25°	800.3	694.1	419.6	172.8	91.7	82.6	80.3	77.2	74.9	74.1	74.1
27.5°	791.1	665.8	357.7	120.0	81.0	75.7	71.1	68.8	65.7	62.7	62.7
30°	784.3	643.6	298.1	88.7	72.6	67.3	63.4	58.1	54.3	51.2	51.2
32.5°	775.1	617.6	238.5	75.7	65.7	60.4	53.5	48.9	43.6	41.3	41.3
35°	778.1	600.0	187.3	67.3	58.9	52.0	45.9	39.7	34.4	32.1	31.3
37.5°	784.3	587.0	142.2	60.4	52.7	45.1	38.2	31.3	28.3	25.2	25.2
40°	810.2	583.2	104.7	55.8	48.2	39.7	32.1	26.0	22.9	20.6	19.9
42.5°	853.8	588.6	81.0	50.4	43.6	33.6	26.8	21.4	18.3	16.1	15.3
45°	909.6	609.2	66.5	47.4	38.2	28.3	21.4	17.6	13.8	12.2	12.2
47.5°	990.6	641.3	58.1	43.6	33.6	23.7	18.3	13.8	10.7	9.2	9.2
50°	1082.4	678.0	51.2	39.0	29.0	19.9	14.5	10.7	7.6	6.9	6.9
52.5°	1174.1	724.6	47.4	35.9	25.2	16.1	11.5	7.6	5.4	4.6	4.6
55°	1270.4	765.9	42.8	33.6	20.6	13.0	8.4	4.6	3.1	2.3	2.3
57.5°	1337.7	782.0	37.5	29.0	16.1	9.9	6.1	3.1	1.5	0.8	0.8
60°	1385.8	784.3	32.1	23.7	12.2	7.6	3.8	1.5	0.8	0.0	0.0
62.5°	1426.3	788.8	27.5	18.3	9.2	5.4	2.3	0.8	0.0	0.0	0.0
65°	1506.6	785.0	22.2	14.5	6.1	3.1	1.5	0.0	0.0	0.0	0.0
67.5°	1570.0	746.8	17.6	9.9	3.8	1.5	0.8	0.0	0.0	0.0	0.0
70°	1388.9	569.5	13.8	6.9	2.3	0.8	0.0	0.0	0.0	0.0	0.0
72.5°	1090.8	379.9	9.2	3.8	1.5	0.8	0.0	0.0	0.0	0.0	0.0
75°	715.5	188.8	6.9	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	278.2	49.7	4.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	67.3	16.8	2.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.0	6.1	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	17.6	3.1	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.2	1.5	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)