

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: P676984

Luminaire Tested: **CCW-SA-1B-735-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676984  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-735-U-SL3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
SL3 distribution lens and House Side Shield  
Light Source: (16) 3500K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

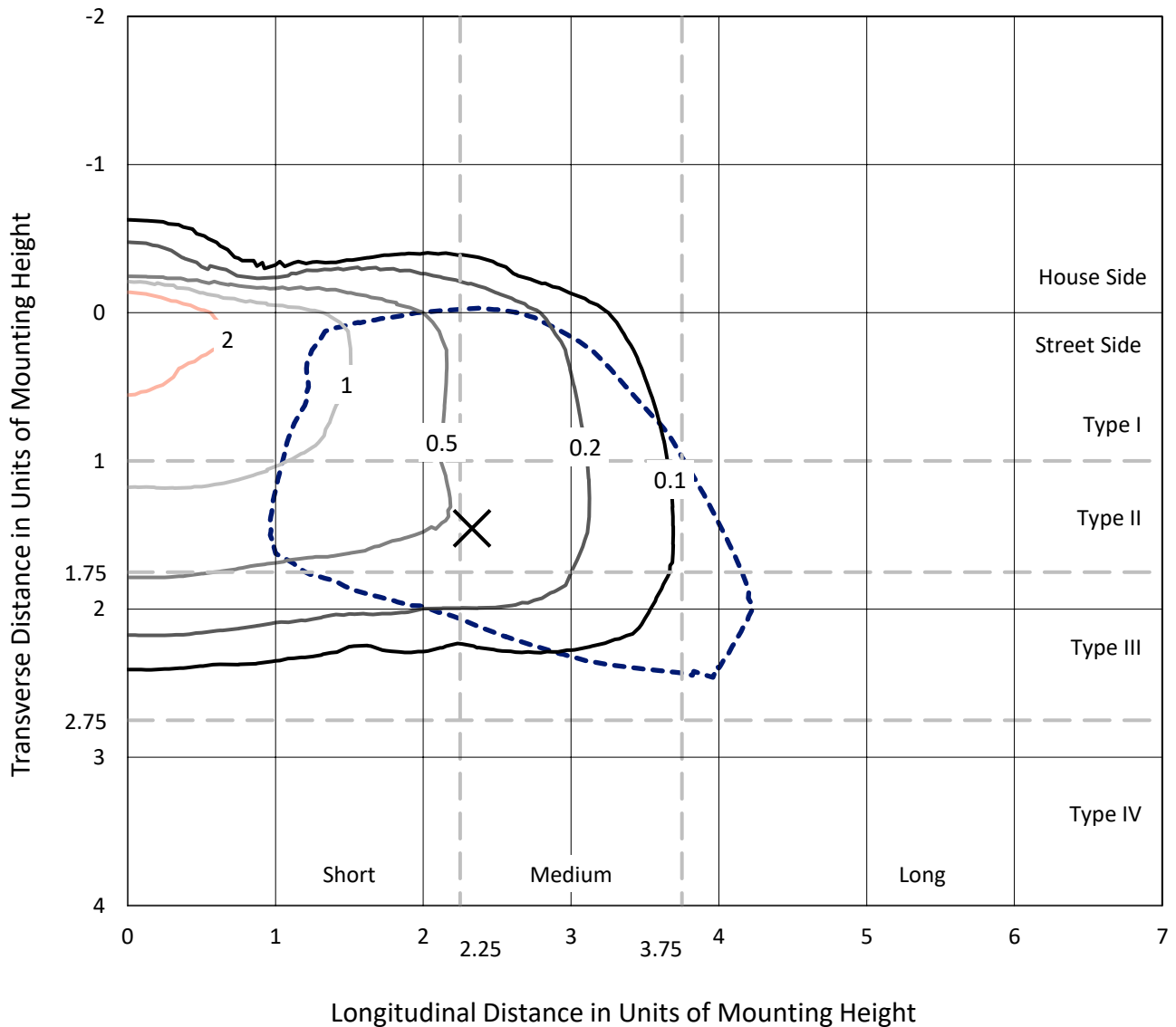
Lumens per Lamp: N/A  
Luminaire Lumens: 2814.8 lumens  
Efficiency: N/A  
Efficacy: 117.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
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

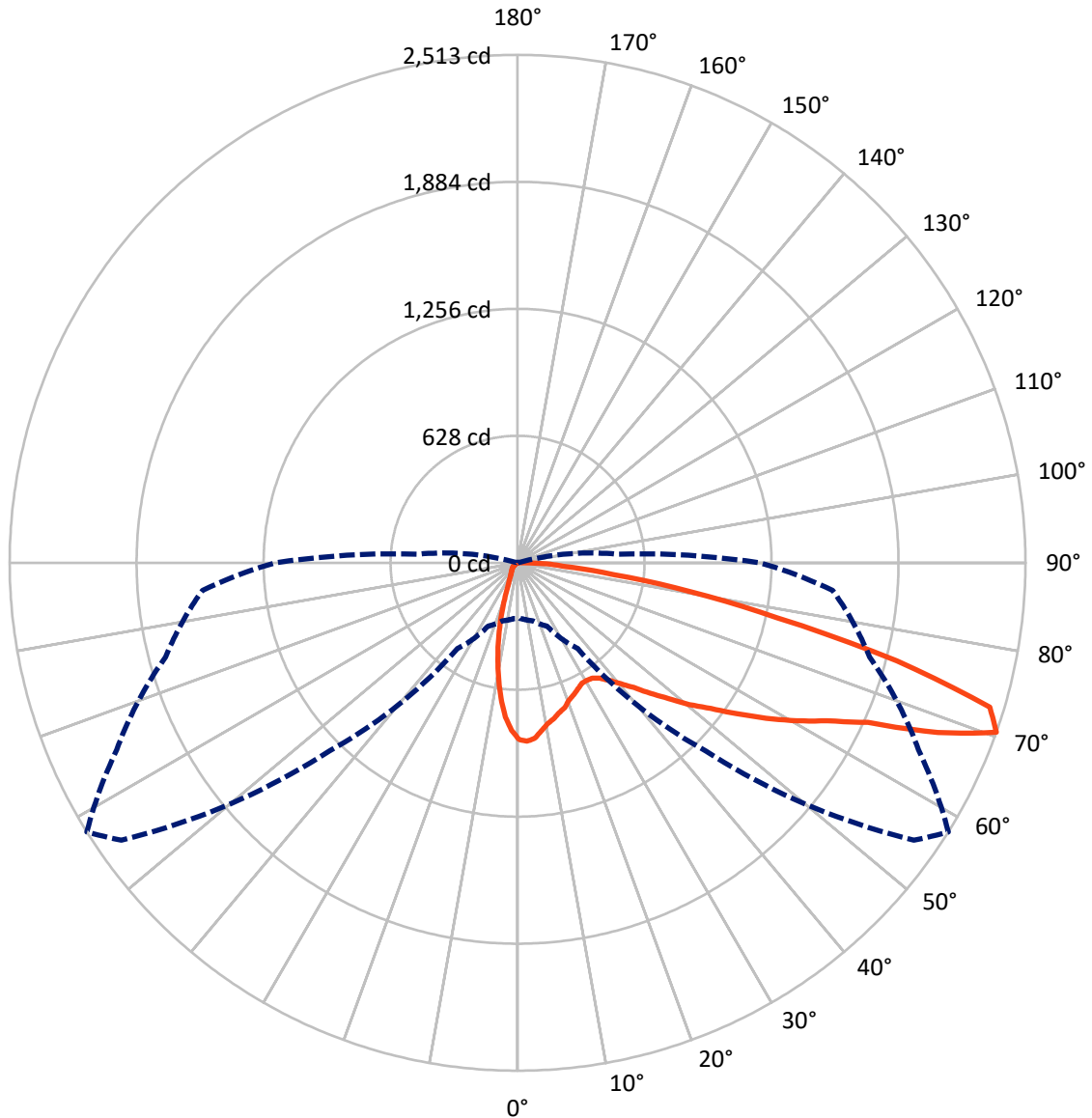
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.9 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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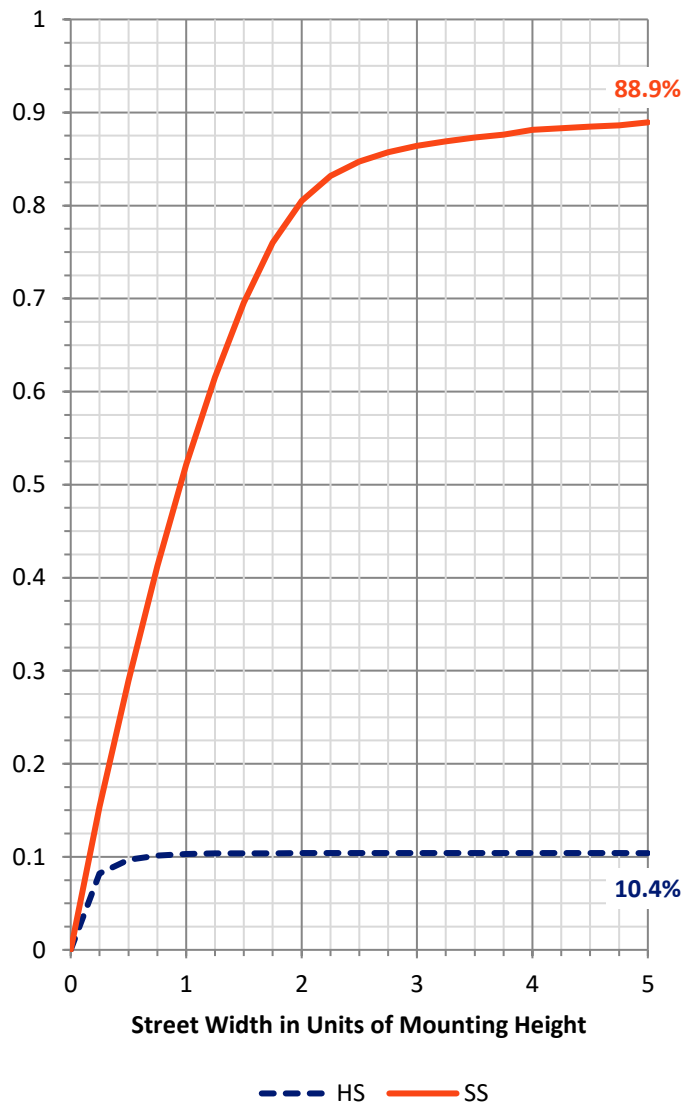
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	294.8	0.0	294.8
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	2520.0	0.0	2520.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	2814.8	0.0	2814.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.3	2.5
10°-20°	148.4	5.3
20°-30°	198.7	7.1
30°-40°	268.7	9.5
40°-50°	385.6	13.7
50°-60°	568.2	20.2
60°-70°	693.1	24.6
70°-80°	423.2	15.0
80°-90°	57.5	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°	2814.8	100.0
0°-180°	2814.8	100.0

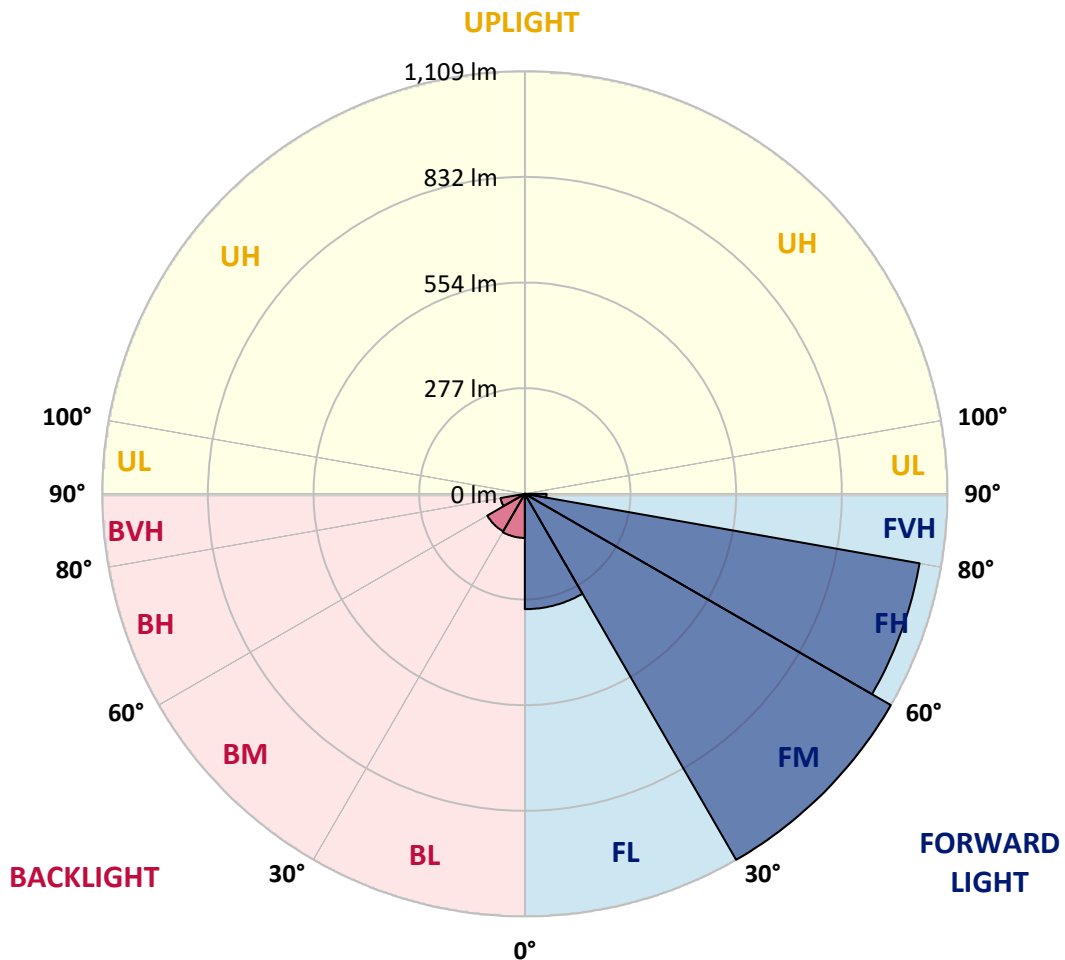


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	302.6	10.8			
FM (30°-60°)	1108.7	39.4			
FH (60°-80°)	1051.7	37.4			G1/1800
FVH (80°-90°)	56.9	2.0			G1/100
BL (0°-30°)	115.8	4.1	B1/500		
BM (30°-60°)	113.8	4.0	B0/220		
BH (60°-80°)	64.6	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°	873.8	873.8	873.8	873.8	873.8	873.8	873.8	873.8	873.8	873.8	873.8
2.5°	889.6	892.9	885.0	894.2	885.7	889.6	885.0	883.7	884.3	885.0	879.7
5°	848.1	856.0	859.3	854.0	866.5	864.6	872.5	873.1	869.8	866.5	867.2
7.5°	793.3	801.2	804.5	807.8	820.3	836.8	847.4	840.8	846.1	858.0	840.1
10°	753.7	751.7	751.0	757.6	781.4	795.3	813.1	811.1	824.3	835.5	821.0
12.5°	704.8	700.9	712.8	718.0	739.2	763.6	777.4	792.0	805.2	817.0	800.5
15°	668.5	671.8	676.5	687.7	702.9	735.2	755.7	769.5	793.3	799.2	792.6
17.5°	639.5	642.1	648.7	654.7	673.8	704.8	737.2	753.7	778.8	794.6	774.1
20°	640.2	632.2	632.2	638.2	648.7	685.7	720.0	725.3	759.6	786.7	772.8
22.5°	640.8	638.2	632.2	631.6	636.2	662.6	697.6	709.5	746.4	778.1	761.6
25°	650.1	640.2	640.8	631.6	633.6	646.8	674.5	692.3	734.5	782.7	755.7
27.5°	658.0	662.6	653.4	649.4	638.2	637.5	660.6	675.8	728.6	793.3	759.6
30°	675.8	679.1	679.1	676.5	665.9	650.7	656.0	675.1	716.7	791.3	753.0
32.5°	705.5	699.6	707.5	703.5	689.7	665.9	670.5	680.4	724.0	816.4	763.6
35°	715.4	720.0	730.6	722.0	717.4	703.5	694.3	701.5	734.5	841.5	779.4
37.5°	745.8	739.2	746.4	765.6	770.2	745.1	727.3	737.8	774.1	871.2	793.9
40°	748.4	753.7	766.9	804.5	809.1	798.6	784.0	786.7	813.7	909.4	830.2
42.5°	761.6	767.5	794.6	826.3	851.4	853.3	842.8	842.8	865.9	970.8	870.5
45°	787.3	777.4	812.4	865.9	902.2	909.4	923.3	920.0	938.5	1035.5	945.7
47.5°	797.2	800.5	838.8	903.5	945.1	978.7	1001.8	1002.5	1011.7	1118.0	1043.4
50°	829.6	828.9	875.1	935.2	996.5	1057.9	1102.8	1102.8	1102.1	1198.5	1127.2
52.5°	872.5	871.2	906.8	978.1	1057.9	1135.1	1194.5	1196.5	1211.7	1297.5	1223.6
55°	942.4	936.5	970.8	1023.6	1119.3	1213.0	1316.0	1316.6	1304.7	1368.1	1292.9
57.5°	1001.2	1000.5	1028.9	1079.7	1187.9	1313.3	1432.8	1450.6	1413.0	1440.7	1348.3
60°	986.0	994.6	1053.3	1128.5	1260.5	1438.7	1558.8	1586.6	1526.5	1490.2	1389.9
62.5°	891.6	911.4	975.4	1095.5	1321.9	1620.9	1732.4	1719.9	1585.9	1532.4	1440.7
65°	641.5	661.3	740.5	920.6	1250.6	1749.6	1960.7	1904.0	1691.5	1595.1	1508.7
67.5°	377.5	385.4	434.9	587.4	935.2	1679.6	2237.9	2242.6	1899.4	1691.5	1626.1
70°	272.6	278.5	297.6	346.5	518.1	1316.6	2392.4	2512.5	2187.8	1802.4	1564.1
72.5°	209.2	209.2	241.5	288.4	330.0	788.7	2201.6	2442.5	2250.5	1696.1	1260.5
75°	150.5	154.4	189.4	248.1	304.2	396.0	1622.2	1938.3	1907.3	1374.7	880.4
77.5°	86.5	88.4	133.3	207.9	285.8	271.9	1002.5	1314.0	1350.9	860.6	381.5
80°	44.2	45.5	74.6	164.3	258.7	236.9	597.9	865.2	733.9	250.1	88.4
82.5°	21.8	21.8	33.7	104.9	219.8	209.9	351.8	477.8	260.0	57.4	37.0
85°	7.3	7.9	15.2	59.4	159.1	126.7	215.1	227.0	87.1	21.8	20.5
87.5°	2.0	2.6	4.0	21.8	69.3	83.2	128.0	145.2	35.6	8.6	9.9
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°	873.8	873.8	873.8	873.8	873.8	873.8	873.8	873.8	873.8	873.8	873.8
2.5°	859.9	855.3	850.0	836.8	826.3	812.4	803.2	795.9	782.1	784.7	778.8
5°	851.4	842.8	812.4	783.4	757.0	716.7	689.0	671.2	656.7	642.1	652.7
7.5°	836.2	815.7	768.2	714.1	658.0	605.2	552.4	520.7	497.6	476.5	475.8
10°	810.4	777.4	702.9	632.2	545.8	476.5	409.2	356.4	322.1	297.0	296.3
12.5°	781.4	747.1	653.4	538.5	438.9	341.2	260.7	204.6	172.3	152.5	149.8
15°	762.9	712.8	591.3	455.4	332.0	222.4	144.5	109.6	97.0	92.4	92.4
17.5°	739.2	681.7	529.9	368.9	230.3	128.7	93.7	84.5	83.8	82.5	81.2
20°	729.3	658.0	475.2	294.3	145.9	91.1	80.5	78.5	78.5	77.2	75.9
22.5°	702.9	623.7	417.1	215.8	97.0	79.9	75.9	73.3	71.9	70.6	71.9
25°	691.0	599.2	362.3	149.2	79.2	71.3	69.3	66.7	64.7	64.0	64.0
27.5°	683.1	574.8	308.9	103.6	70.0	65.3	61.4	59.4	56.8	54.1	54.1
30°	677.1	555.7	257.4	76.6	62.7	58.1	54.8	50.2	46.9	44.2	44.2
32.5°	669.2	533.2	205.9	65.3	56.8	52.1	46.2	42.2	37.6	35.6	35.6
35°	671.8	518.1	161.7	58.1	50.8	44.9	39.6	34.3	29.7	27.7	27.1
37.5°	677.1	506.9	122.8	52.1	45.5	38.9	33.0	27.1	24.4	21.8	21.8
40°	699.6	503.6	90.4	48.2	41.6	34.3	27.7	22.4	19.8	17.8	17.2
42.5°	737.2	508.2	70.0	43.6	37.6	29.0	23.1	18.5	15.8	13.9	13.2
45°	785.4	526.0	57.4	40.9	33.0	24.4	18.5	15.2	11.9	10.6	10.6
47.5°	855.3	553.7	50.2	37.6	29.0	20.5	15.8	11.9	9.2	7.9	7.9
50°	934.5	585.4	44.2	33.7	25.1	17.2	12.5	9.2	6.6	5.9	5.9
52.5°	1013.7	625.6	40.9	31.0	21.8	13.9	9.9	6.6	4.6	4.0	4.0
55°	1096.9	661.3	37.0	29.0	17.8	11.2	7.3	4.0	2.6	2.0	2.0
57.5°	1154.9	675.1	32.3	25.1	13.9	8.6	5.3	2.6	1.3	0.7	0.7
60°	1196.5	677.1	27.7	20.5	10.6	6.6	3.3	1.3	0.7	0.0	0.0
62.5°	1231.5	681.1	23.8	15.8	7.9	4.6	2.0	0.7	0.0	0.0	0.0
65°	1300.8	677.8	19.1	12.5	5.3	2.6	1.3	0.0	0.0	0.0	0.0
67.5°	1355.6	644.8	15.2	8.6	3.3	1.3	0.7	0.0	0.0	0.0	0.0
70°	1199.2	491.7	11.9	5.9	2.0	0.7	0.0	0.0	0.0	0.0	0.0
72.5°	941.8	328.0	7.9	3.3	1.3	0.7	0.0	0.0	0.0	0.0	0.0
75°	617.7	163.0	5.9	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	240.2	42.9	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	58.1	14.5	2.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.1	5.3	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	15.2	2.6	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.9	1.3	0.7	0.7	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)