

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: P677050

Luminaire Tested: **CCW-SA-1B-835-U-SL3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P677050  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-835-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, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

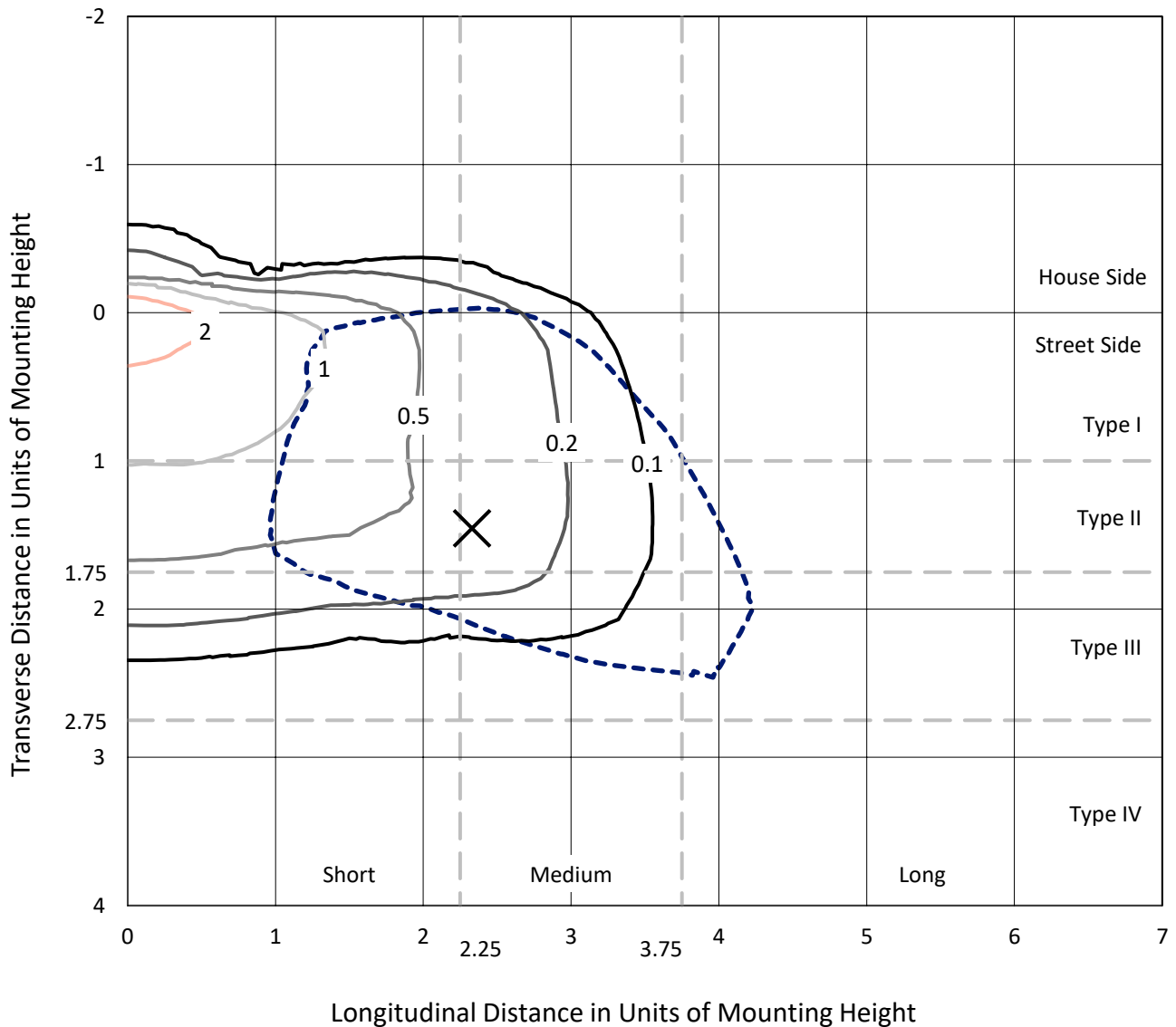
Lumens per Lamp: N/A  
Luminaire Lumens: 2351.6 lumens  
Efficiency: N/A  
Efficacy: 98.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

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

REPORT NUMBER: P677050  
 CATALOG NUMBER: CCW-SA-1B-835-U-SL3-HSS

### Iso-Footcandle Lines of Horizontal Illumination

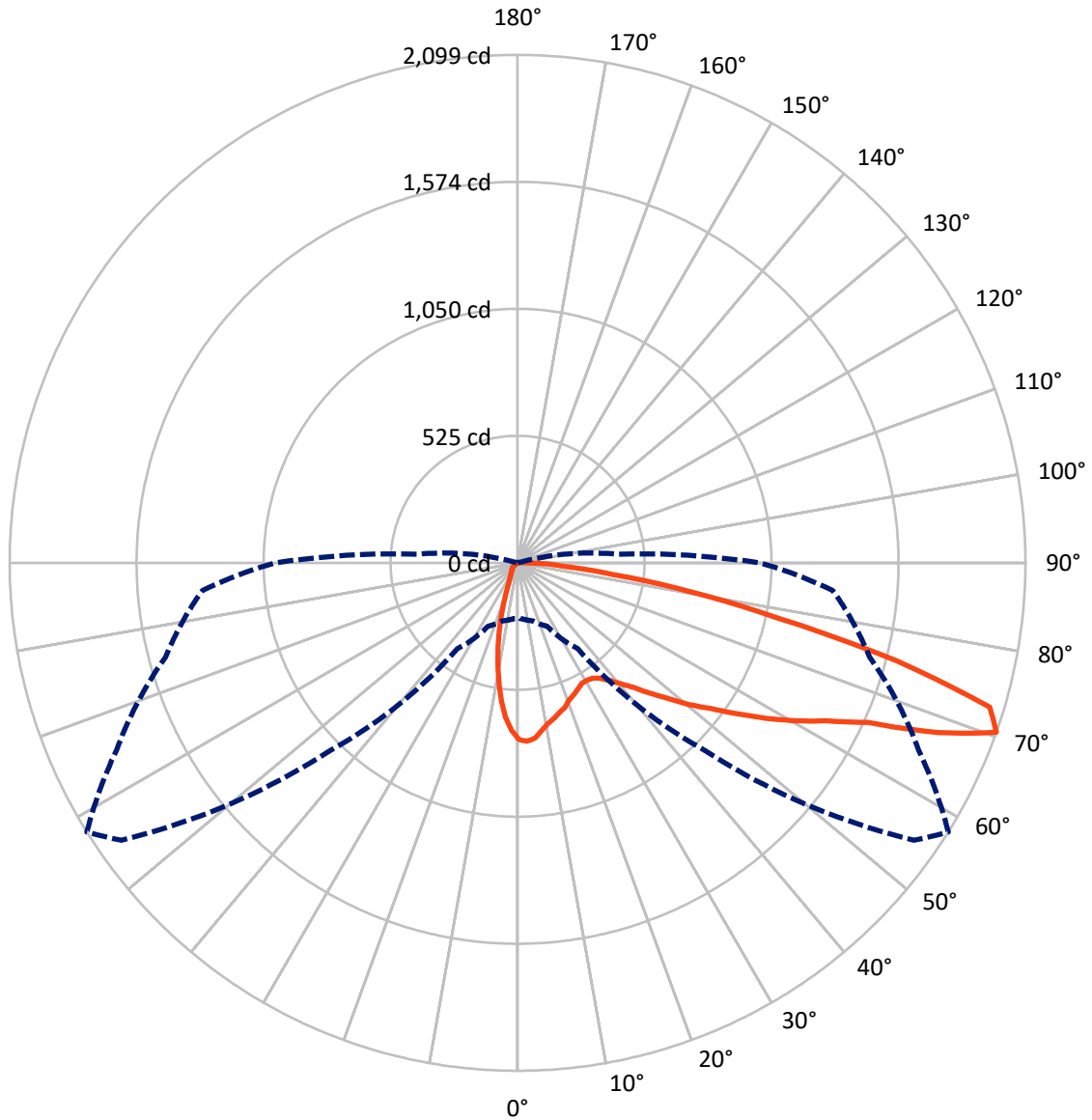
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 fc  
 Type III - Medium - N/A

REPORT NUMBER: P677050  
CATALOG NUMBER: CCW-SA-1B-835-U-SL3-HSS

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P677050  
 CATALOG NUMBER: CCW-SA-1B-835-U-SL3-HSS

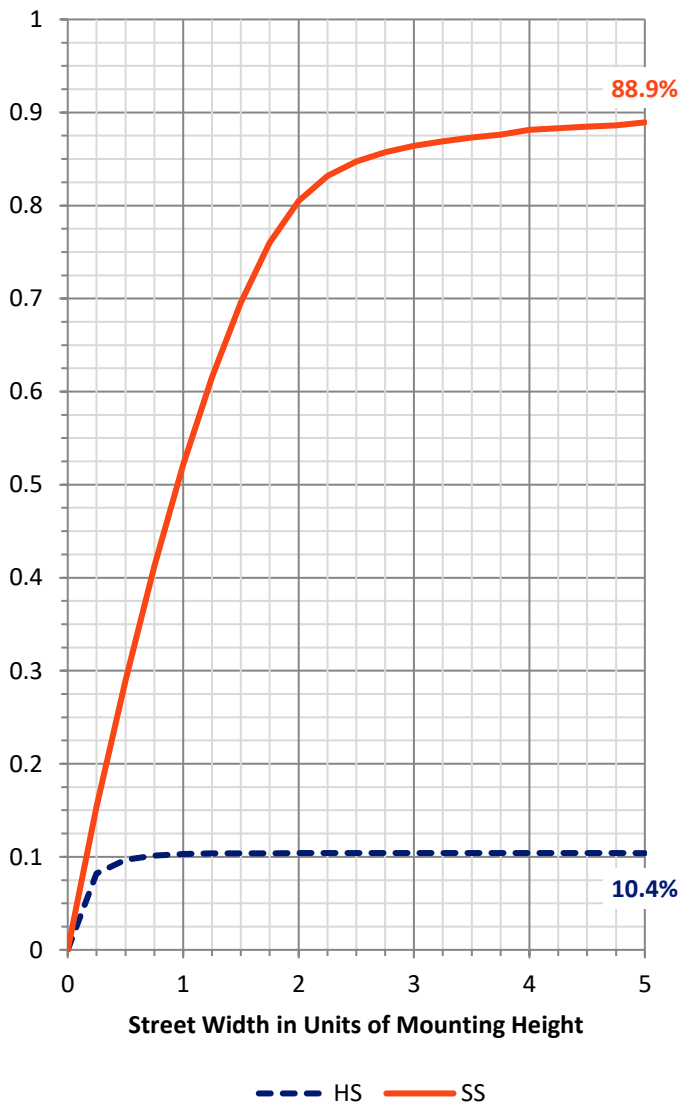
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	246.3	0.0	246.3
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	2105.3	0.0	2105.3
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	2351.6	0.0	2351.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.6	2.5
10°-20°	124.0	5.3
20°-30°	166.0	7.1
30°-40°	224.5	9.5
40°-50°	322.1	13.7
50°-60°	474.7	20.2
60°-70°	579.0	24.6
70°-80°	353.6	15.0
80°-90°	48.0	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°	2351.6	100.0
0°-180°	2351.6	100.0

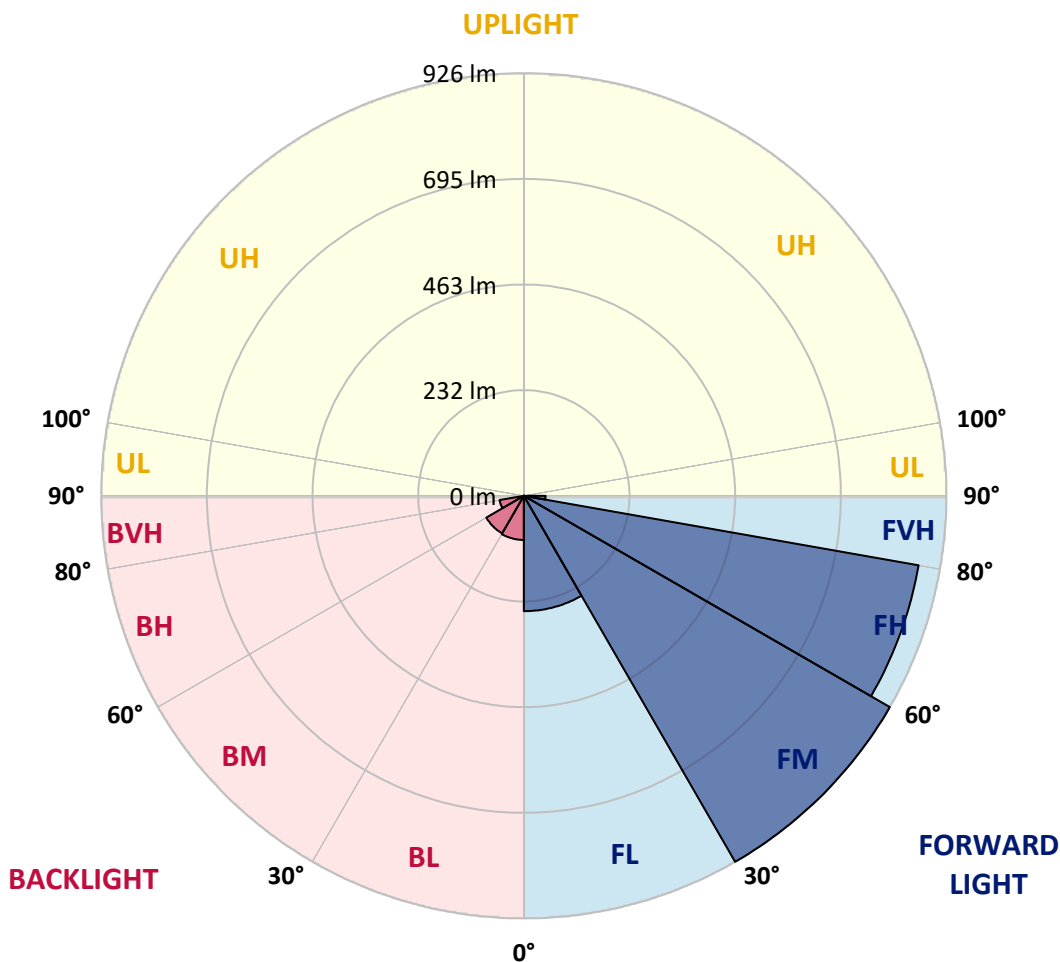


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 CATALOG NUMBER: CCW-SA-1B-835-U-SL3-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	252.8	10.8			
FM (30°-60°)	926.3	39.4			
FH (60°-80°)	878.7	37.4			G1/1800
FVH (80°-90°)	47.6	2.0			G1/100
BL (0°-30°)	96.8	4.1	B0/110		
BM (30°-60°)	95.0	4.0	B0/220		
BH (60°-80°)	54.0	2.3	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**  
 Type III Medium





REPORT NUMBER: P677050

CATALOG NUMBER: CCW-SA-1B-835-U-SL3-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
2.5°	743.2	746.0	739.4	747.1	739.9	743.2	739.4	738.3	738.8	739.4	735.0
5°	708.5	715.1	717.9	713.5	723.9	722.3	728.9	729.5	726.7	723.9	724.5
7.5°	662.7	669.4	672.1	674.9	685.3	699.1	707.9	702.4	706.8	716.8	701.9
10°	629.7	628.0	627.5	633.0	652.8	664.4	679.3	677.6	688.7	698.0	685.9
12.5°	588.9	585.5	595.5	599.9	617.5	637.9	649.5	661.6	672.7	682.6	668.8
15°	558.5	561.3	565.1	574.5	587.2	614.2	631.3	642.9	662.7	667.7	662.2
17.5°	534.3	536.5	542.0	547.0	562.9	588.9	615.9	629.7	650.6	663.8	646.7
20°	534.8	528.2	528.2	533.2	542.0	572.9	601.5	605.9	634.6	657.2	645.6
22.5°	535.4	533.2	528.2	527.7	531.5	553.6	582.8	592.7	623.6	650.1	636.3
25°	543.1	534.8	535.4	527.7	529.3	540.3	563.5	578.4	613.7	653.9	631.3
27.5°	549.7	553.6	545.8	542.5	533.2	532.6	551.9	564.6	608.7	662.7	634.6
30°	564.6	567.4	567.4	565.1	556.3	543.6	548.1	564.0	598.8	661.1	629.1
32.5°	589.4	584.4	591.1	587.8	576.2	556.3	560.2	568.5	604.8	682.0	637.9
35°	597.7	601.5	610.4	603.2	599.3	587.8	580.0	586.1	613.7	703.0	651.2
37.5°	623.0	617.5	623.6	639.6	643.4	622.5	607.6	616.4	646.7	727.8	663.3
40°	625.2	629.7	640.7	672.1	676.0	667.1	655.0	657.2	679.8	759.8	693.6
42.5°	636.3	641.2	663.8	690.3	711.3	712.9	704.1	704.1	723.4	811.1	727.2
45°	657.8	649.5	678.7	723.4	753.7	759.8	771.4	768.6	784.0	865.1	790.1
47.5°	666.0	668.8	700.8	754.8	789.6	817.7	837.0	837.5	845.2	934.0	871.7
50°	693.1	692.5	731.1	781.3	832.6	883.8	921.3	921.3	920.8	1001.3	941.7
52.5°	728.9	727.8	757.6	817.1	883.8	948.3	998.0	999.6	1012.3	1084.0	1022.2
55°	787.3	782.4	811.1	855.2	935.1	1013.4	1099.4	1100.0	1090.0	1143.0	1080.1
57.5°	836.4	835.9	859.6	902.0	992.5	1097.2	1197.0	1211.9	1180.5	1203.6	1126.4
60°	823.7	830.9	880.0	942.8	1053.1	1202.0	1302.3	1325.5	1275.3	1245.0	1161.2
62.5°	744.9	761.4	814.9	915.3	1104.4	1354.1	1447.3	1436.9	1324.9	1280.3	1203.6
65°	535.9	552.5	618.6	769.2	1044.8	1461.7	1638.1	1590.7	1413.1	1332.6	1260.4
67.5°	315.4	322.0	363.3	490.7	781.3	1403.2	1869.7	1873.5	1586.8	1413.1	1358.6
70°	227.7	232.7	248.7	289.5	432.8	1100.0	1998.7	2099.0	1827.8	1505.8	1306.7
72.5°	174.8	174.8	201.8	240.9	275.7	658.9	1839.3	2040.6	1880.1	1417.0	1053.1
75°	125.7	129.0	158.2	207.3	254.2	330.8	1355.2	1619.4	1593.4	1148.5	735.5
77.5°	72.2	73.9	111.4	173.7	238.7	227.2	837.5	1097.8	1128.6	719.0	318.7
80°	36.9	38.0	62.3	137.3	216.1	197.9	499.5	722.8	613.1	209.0	73.9
82.5°	18.2	18.2	28.1	87.7	183.6	175.3	293.9	399.2	217.2	48.0	30.9
85°	6.1	6.6	12.7	49.6	132.9	105.9	179.7	189.7	72.8	18.2	17.1
87.5°	1.7	2.2	3.3	18.2	57.9	69.5	107.0	121.3	29.8	7.2	8.3
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: P677050

CATALOG NUMBER: CCW-SA-1B-835-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0	730.0
2.5°	718.4	714.6	710.2	699.1	690.3	678.7	671.0	664.9	653.4	655.6	650.6
5°	711.3	704.1	678.7	654.5	632.4	598.8	575.6	560.7	548.6	536.5	545.3
7.5°	698.6	681.5	641.8	596.6	549.7	505.6	461.5	435.0	415.7	398.1	397.5
10°	677.1	649.5	587.2	528.2	456.0	398.1	341.8	297.7	269.1	248.1	247.6
12.5°	652.8	624.1	545.8	449.9	366.7	285.1	217.8	170.9	143.9	127.4	125.2
15°	637.4	595.5	494.0	380.4	277.3	185.8	120.7	91.5	81.1	77.2	77.2
17.5°	617.5	569.6	442.7	308.2	192.4	107.5	78.3	70.6	70.0	68.9	67.8
20°	609.3	549.7	397.0	245.9	121.9	76.1	67.3	65.6	65.6	64.5	63.4
22.5°	587.2	521.0	348.5	180.3	81.1	66.7	63.4	61.2	60.1	59.0	60.1
25°	577.3	500.6	302.7	124.6	66.2	59.5	57.9	55.7	54.0	53.5	53.5
27.5°	570.7	480.2	258.0	86.6	58.4	54.6	51.3	49.6	47.4	45.2	45.2
30°	565.7	464.2	215.0	64.0	52.4	48.5	45.8	41.9	39.1	36.9	36.9
32.5°	559.1	445.5	172.0	54.6	47.4	43.6	38.6	35.3	31.4	29.8	29.8
35°	561.3	432.8	135.1	48.5	42.5	37.5	33.1	28.7	24.8	23.2	22.6
37.5°	565.7	423.4	102.6	43.6	38.0	32.5	27.6	22.6	20.4	18.2	18.2
40°	584.4	420.7	75.5	40.2	34.7	28.7	23.2	18.7	16.5	14.9	14.3
42.5°	615.9	424.5	58.4	36.4	31.4	24.3	19.3	15.4	13.2	11.6	11.0
45°	656.1	439.4	48.0	34.2	27.6	20.4	15.4	12.7	9.9	8.8	8.8
47.5°	714.6	462.6	41.9	31.4	24.3	17.1	13.2	9.9	7.7	6.6	6.6
50°	780.7	489.1	36.9	28.1	21.0	14.3	10.5	7.7	5.5	5.0	5.0
52.5°	846.9	522.7	34.2	25.9	18.2	11.6	8.3	5.5	3.9	3.3	3.3
55°	916.4	552.5	30.9	24.3	14.9	9.4	6.1	3.3	2.2	1.7	1.7
57.5°	964.9	564.0	27.0	21.0	11.6	7.2	4.4	2.2	1.1	0.6	0.6
60°	999.6	565.7	23.2	17.1	8.8	5.5	2.8	1.1	0.6	0.0	0.0
62.5°	1028.8	569.0	19.8	13.2	6.6	3.9	1.7	0.6	0.0	0.0	0.0
65°	1086.7	566.2	16.0	10.5	4.4	2.2	1.1	0.0	0.0	0.0	0.0
67.5°	1132.5	538.7	12.7	7.2	2.8	1.1	0.6	0.0	0.0	0.0	0.0
70°	1001.8	410.8	9.9	5.0	1.7	0.6	0.0	0.0	0.0	0.0	0.0
72.5°	786.8	274.0	6.6	2.8	1.1	0.6	0.0	0.0	0.0	0.0	0.0
75°	516.1	136.2	5.0	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	200.7	35.8	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	48.5	12.1	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.0	4.4	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.7	2.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	1.1	0.6	0.6	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)