

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: P676762

Luminaire Tested: **CCW-SA-1B-835-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676762  
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-T4W-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
T4W distribution lens and House Side Shield  
Light Source: (16) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

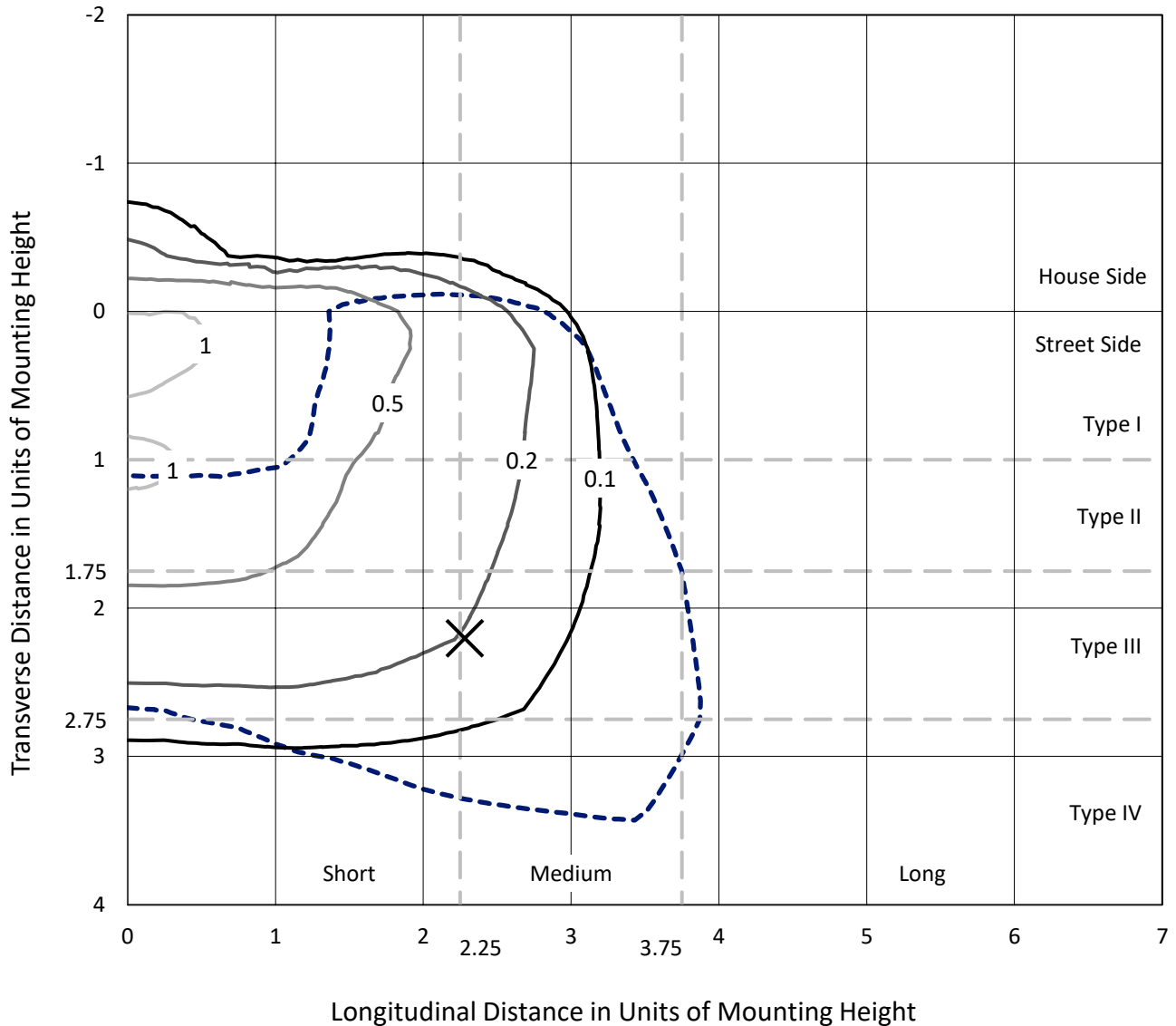
Lumens per Lamp: N/A  
Luminaire Lumens: 2053.2 lumens  
Efficiency: N/A  
Efficacy: 85.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

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: P676762  
 CATALOG NUMBER: CCW-SA-1B-835-U-T4W-HSS

### Iso-Footcandle Lines of Horizontal Illumination

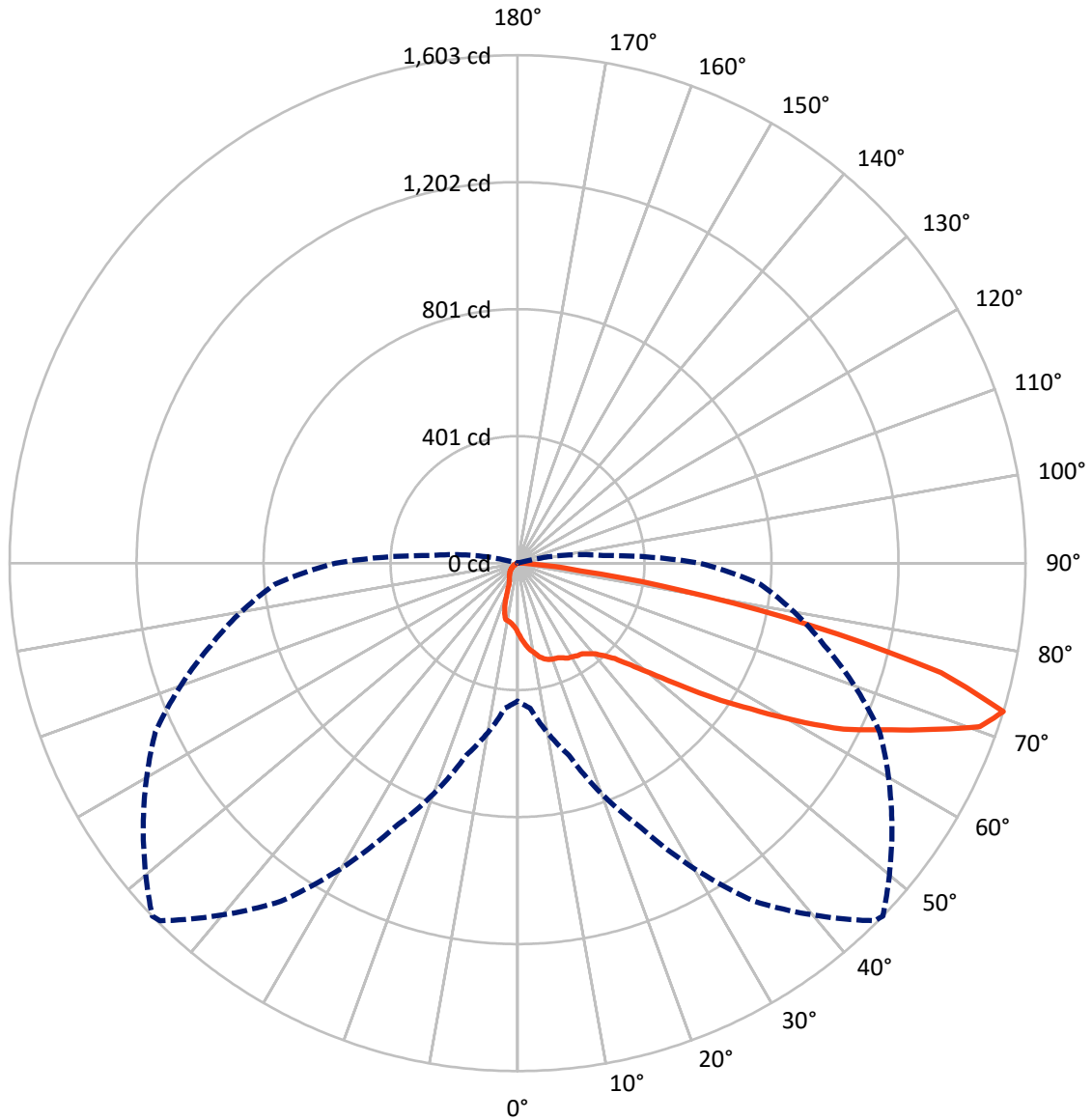
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.4 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P676762  
CATALOG NUMBER: CCW-SA-1B-835-U-T4W-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P676762

CATALOG NUMBER: CCW-SA-1B-835-U-T4W-HSS

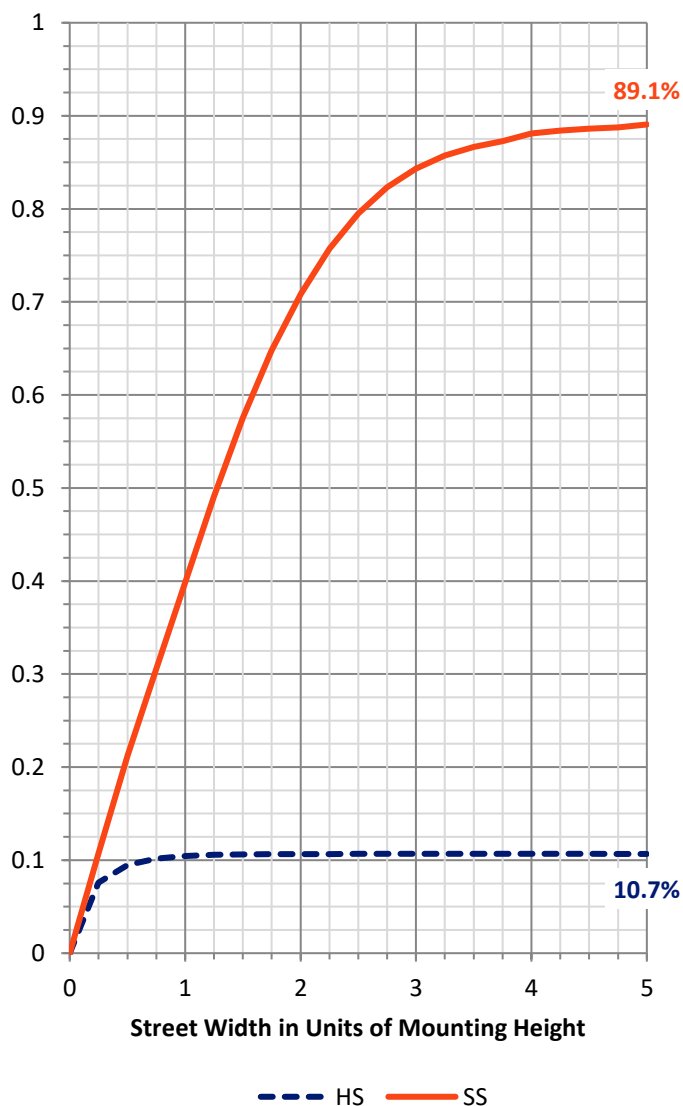
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	221.0	0.0	221.0
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	1832.1	0.0	1832.1
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	2053.2	0.0	2053.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.0	1.1
10°-20°	66.3	3.2
20°-30°	103.8	5.1
30°-40°	145.4	7.1
40°-50°	239.7	11.7
50°-60°	430.9	21.0
60°-70°	624.5	30.4
70°-80°	389.7	19.0
80°-90°	30.9	1.5
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°	2053.2	100.0
0°-180°	2053.2	100.0

**Coefficient of Utilization**



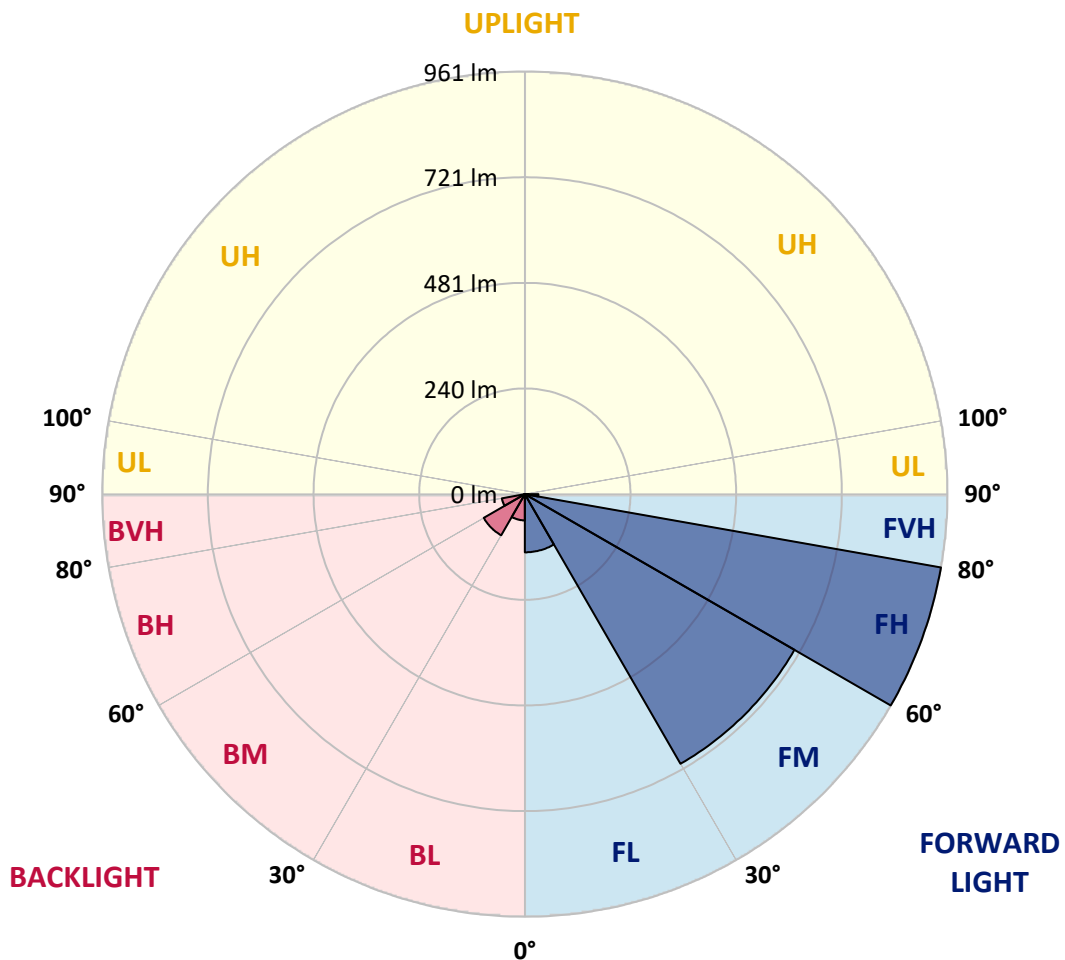
REPORT NUMBER: P676762  
 CATALOG NUMBER: CCW-SA-1B-835-U-T4W-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	132.3	6.4			
FM (30°-60°)	708.0	34.5			
FH (60°-80°)	961.1	46.8			G1/1800
FVH (80°-90°)	30.7	1.5			G1/100
BL (0°-30°)	59.7	2.9	B0/110		
BM (30°-60°)	108.0	5.3	B0/220		
BH (60°-80°)	53.2	2.6	B0/110		G0/110
BVH (80°-90°)	0.2	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 IV Medium





REPORT NUMBER: P676762

CATALOG NUMBER: CCW-SA-1B-835-U-T4W-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4
2.5°	245.6	244.6	246.1	245.6	239.3	240.4	239.9	235.7	228.3	224.1	221.5
5°	273.9	276.5	274.4	269.7	266.0	258.7	257.7	250.9	239.3	232.0	224.1
7.5°	303.2	303.2	299.0	291.7	283.8	276.0	274.9	263.4	253.5	240.9	229.9
10°	325.2	322.6	319.5	311.6	302.7	292.2	287.0	278.6	267.6	252.4	238.3
12.5°	344.6	340.4	335.2	323.7	313.2	301.7	302.7	289.1	281.8	268.1	247.2
15°	355.6	351.9	347.2	336.7	320.5	315.3	313.2	304.8	291.7	278.1	258.2
17.5°	358.2	355.6	349.3	335.7	326.8	320.5	320.0	310.0	304.3	292.8	270.8
20°	353.0	348.3	343.6	334.6	326.3	324.2	322.6	322.6	315.3	300.1	278.6
22.5°	344.1	338.8	336.2	331.0	324.2	323.7	324.7	323.7	317.9	307.9	287.0
25°	337.3	334.6	330.5	328.9	324.7	332.6	331.0	329.4	327.8	316.3	300.1
27.5°	339.4	338.8	335.7	329.4	326.3	334.6	339.4	339.9	339.4	327.8	312.1
30°	340.4	337.8	334.6	333.1	334.1	342.5	342.5	354.0	349.3	337.8	324.2
32.5°	352.5	350.9	340.4	336.7	337.3	347.2	347.7	359.3	357.7	349.8	334.6
35°	378.1	367.6	352.5	342.0	342.0	355.1	350.9	367.6	371.8	359.3	342.0
37.5°	416.3	408.5	381.3	357.7	348.8	358.2	362.4	371.8	384.4	373.4	356.6
40°	492.3	490.7	452.0	401.2	366.1	374.5	376.0	390.7	399.1	383.9	379.2
42.5°	603.3	595.5	559.3	479.2	397.5	393.8	399.6	409.0	428.9	416.3	404.8
45°	711.7	708.1	671.9	582.4	454.6	432.6	429.4	446.2	475.5	461.9	453.0
47.5°	790.3	782.9	762.5	687.1	538.4	478.1	480.2	497.0	534.2	523.7	526.3
50°	850.5	846.8	825.4	784.0	644.2	549.9	545.7	562.5	612.7	619.5	626.9
52.5°	916.5	923.3	894.5	859.4	769.3	646.3	636.8	642.6	707.5	723.2	743.7
55°	979.9	990.9	962.1	957.3	900.3	753.1	751.5	737.9	821.7	823.8	834.8
57.5°	1021.2	1017.6	1015.5	1041.1	1031.2	875.6	867.8	854.2	930.1	916.5	949.5
60°	1024.4	1034.8	1069.9	1133.3	1151.1	1019.7	1008.1	971.0	1023.8	991.4	1054.2
62.5°	1047.9	1056.3	1121.3	1208.7	1231.8	1146.4	1154.3	1060.0	1104.0	1078.3	1170.5
65°	988.2	1014.4	1144.8	1267.4	1337.5	1274.7	1266.8	1174.7	1186.2	1162.1	1285.2
67.5°	934.3	944.2	1080.4	1285.2	1421.3	1403.5	1400.4	1276.3	1271.0	1226.5	1317.6
70°	759.4	771.4	906.0	1194.1	1449.6	1553.8	1546.5	1418.7	1328.6	1191.4	1151.1
72.5°	435.2	459.3	627.9	919.6	1302.5	1595.7	1602.5	1441.8	1260.6	1001.9	768.8
75°	142.4	149.3	260.8	521.1	974.1	1392.0	1380.0	1239.1	1017.0	661.4	347.2
77.5°	48.2	49.2	77.0	188.5	539.9	940.6	947.4	885.6	624.8	274.9	95.8
80°	24.6	26.2	37.7	70.7	222.1	512.2	523.2	504.9	261.9	81.2	23.0
82.5°	11.5	12.0	22.0	39.3	101.6	201.1	201.1	221.0	92.7	45.6	9.4
85°	4.2	4.2	11.5	22.5	42.9	67.0	67.6	68.1	48.7	34.0	4.2
87.5°	1.6	1.6	5.8	9.4	15.7	20.4	20.4	16.2	24.6	22.5	1.6
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: P676762  
 CATALOG NUMBER: CCW-SA-1B-835-U-T4W-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4	219.4
2.5°	220.5	217.3	214.7	211.1	206.3	203.7	204.2	201.1	201.1	199.5	199.0
5°	220.5	217.3	210.5	204.2	200.1	194.8	192.2	190.1	190.1	189.1	189.6
7.5°	222.1	217.3	207.9	199.5	192.7	187.5	183.3	182.8	181.7	179.1	181.2
10°	231.5	224.7	209.0	197.4	189.6	183.8	176.5	174.4	171.3	166.5	167.1
12.5°	239.3	230.4	216.3	200.6	190.6	181.2	164.4	146.1	138.3	129.9	130.4
15°	250.9	238.3	218.9	204.8	190.6	160.3	129.9	106.3	93.7	87.5	87.5
17.5°	257.1	246.7	226.2	207.4	175.4	130.4	92.2	71.7	69.7	70.7	70.7
20°	270.2	256.1	234.6	209.5	150.3	92.7	67.6	65.5	66.5	68.6	68.1
22.5°	278.6	264.5	240.9	200.1	116.3	66.5	63.4	62.3	63.4	66.0	66.0
25°	285.4	276.5	250.9	177.0	82.2	60.2	59.2	60.2	61.3	62.3	63.9
27.5°	302.2	287.0	257.7	147.2	59.2	56.0	57.1	57.6	57.6	59.2	59.7
30°	313.2	301.1	262.9	113.6	52.4	51.8	52.9	53.4	53.9	55.5	56.0
32.5°	323.7	319.5	256.1	77.0	49.2	48.2	47.7	48.2	50.3	51.8	51.3
35°	338.8	336.2	246.1	53.4	46.1	44.0	42.9	43.5	45.0	46.6	46.1
37.5°	357.2	359.8	222.1	46.6	42.9	40.3	38.2	38.2	38.8	40.3	40.8
40°	378.6	385.4	193.8	43.5	40.8	37.7	35.6	33.0	32.5	31.9	32.5
42.5°	417.9	425.8	161.8	41.4	37.7	34.0	30.9	27.8	25.1	23.6	23.6
45°	472.9	466.6	119.9	39.3	36.1	30.9	26.2	22.5	18.9	17.3	17.3
47.5°	548.8	527.4	82.2	37.2	33.5	27.2	22.0	17.3	14.1	12.6	12.6
50°	654.1	583.4	53.4	35.1	31.9	23.6	17.8	12.6	10.5	10.0	10.5
52.5°	753.6	640.5	42.4	32.5	28.8	20.4	13.6	10.5	9.4	8.9	8.9
55°	845.3	669.3	37.7	29.9	26.2	16.8	11.5	8.9	8.4	7.9	7.9
57.5°	922.8	679.2	32.5	26.2	20.9	13.1	9.4	7.9	6.8	6.3	6.3
60°	989.8	681.9	25.1	20.9	15.2	10.0	7.9	6.8	5.8	4.7	4.7
62.5°	1043.2	663.5	17.8	14.7	10.5	7.9	6.8	4.7	3.1	2.1	1.6
65°	1085.6	626.9	12.0	10.0	6.8	5.8	4.2	2.1	0.5	0.0	0.0
67.5°	1035.9	543.6	9.4	7.3	4.7	3.7	2.1	0.5	0.0	0.0	0.0
70°	844.7	421.6	6.8	4.7	3.1	1.0	0.5	0.0	0.0	0.0	0.0
72.5°	575.0	271.8	5.2	3.1	1.6	0.5	0.0	0.0	0.0	0.0	0.0
75°	258.2	97.4	3.7	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	62.8	23.0	2.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.8	5.8	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.3	2.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.6	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	0.5	0.0	0.0	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)