

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: P676685

Luminaire Tested: **CCW-SA-1B-730-U-T4W-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676685  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-730-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) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

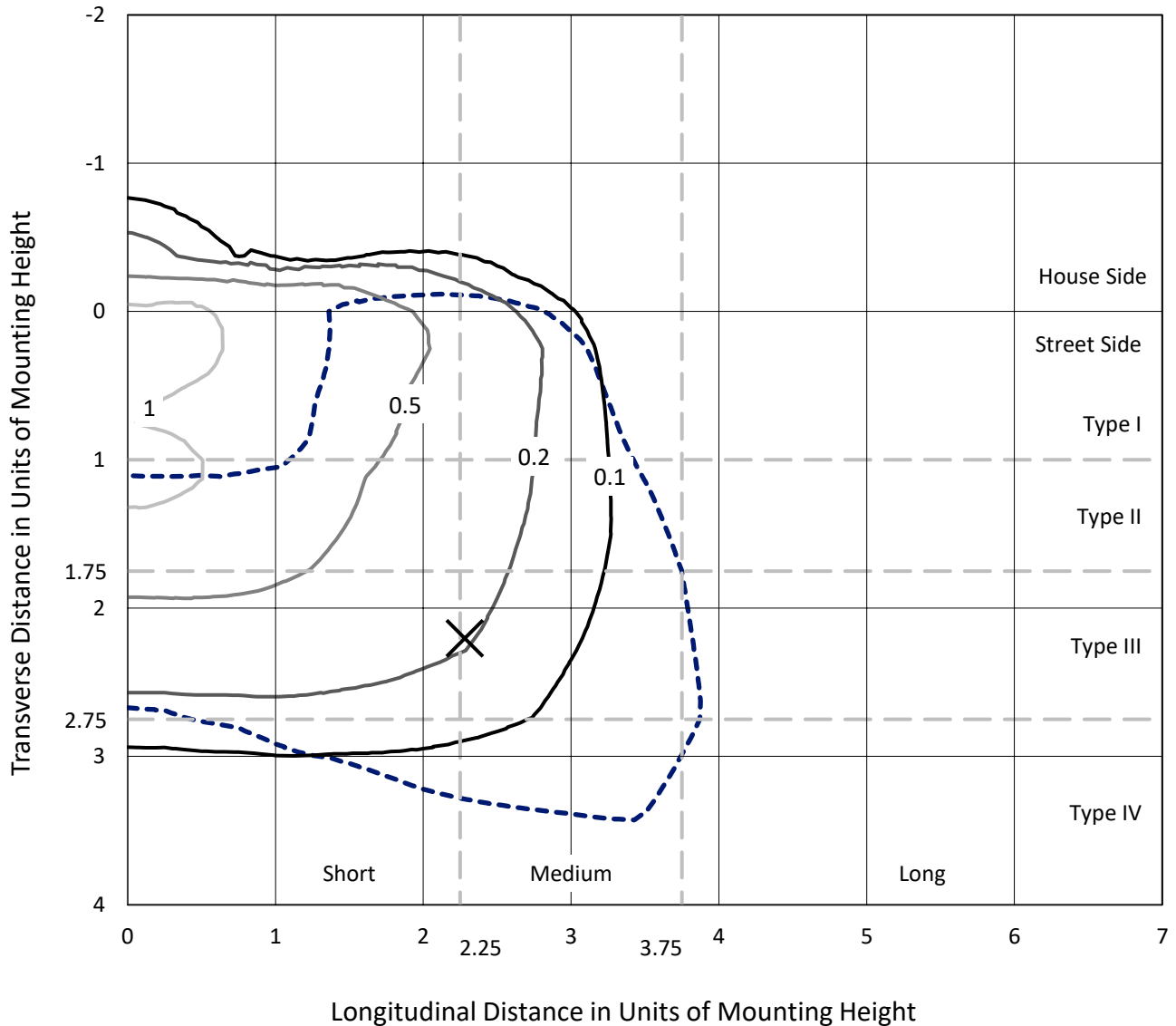
Lumens per Lamp: N/A  
Luminaire Lumens: 2268.9 lumens  
Efficiency: N/A  
Efficacy: 94.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (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

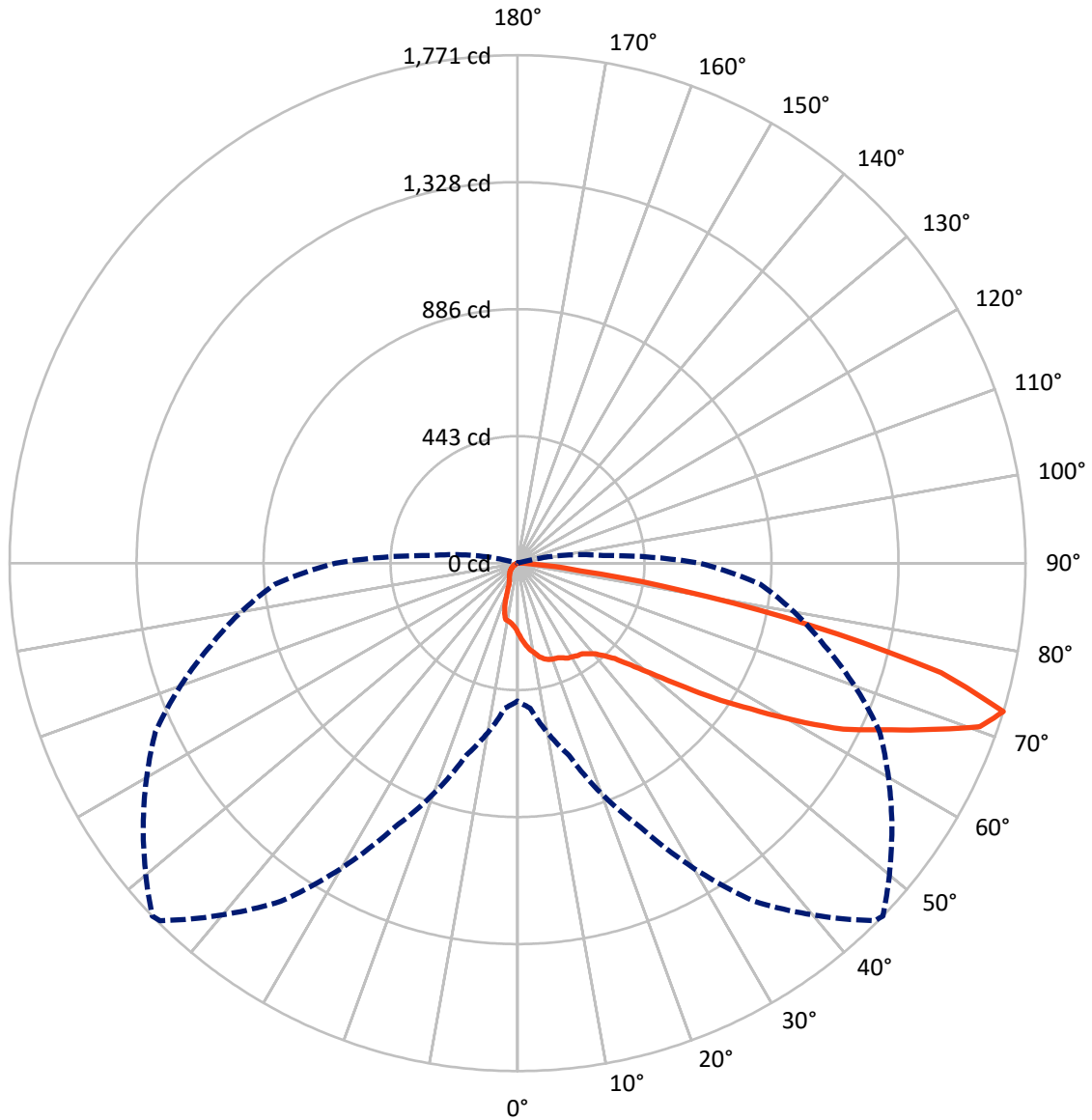
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.6 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



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

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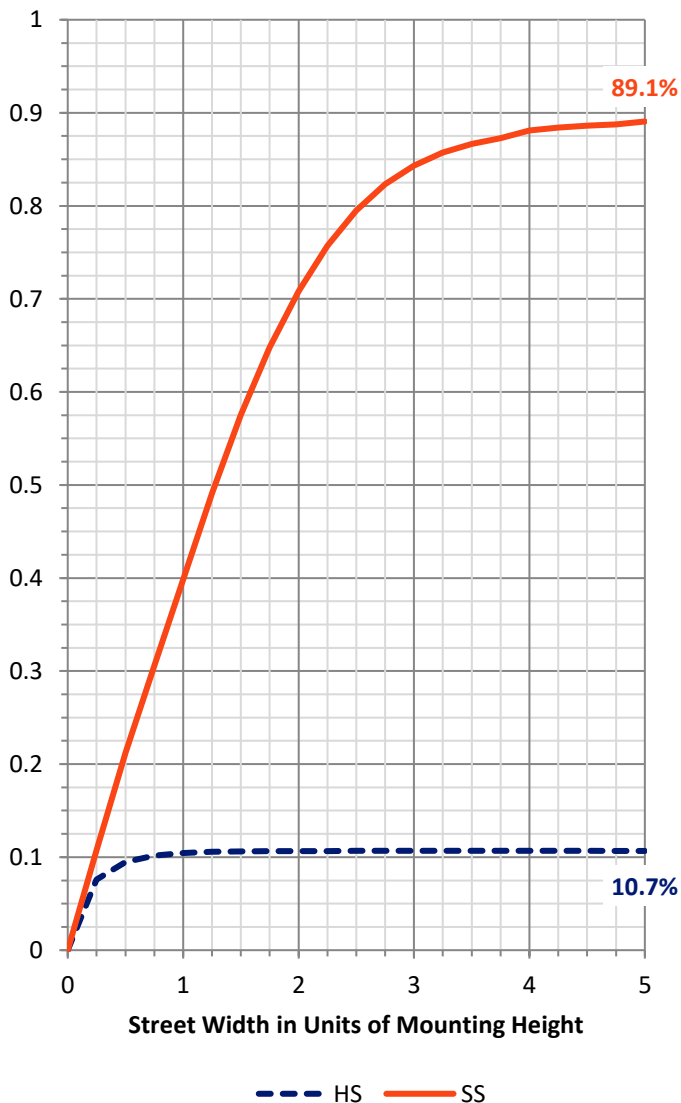
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	244.3	0.0	244.3
	% Fixture	10.8	0.0	10.8
<b>Street Side</b>	Lumens	2024.7	0.0	2024.7
	% Fixture	89.2	0.0	89.2
<b>Total</b>	Lumens	2268.9	0.0	2268.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.3	1.1
10°-20°	73.3	3.2
20°-30°	114.7	5.1
30°-40°	160.6	7.1
40°-50°	264.9	11.7
50°-60°	476.2	21.0
60°-70°	690.1	30.4
70°-80°	430.7	19.0
80°-90°	34.1	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°	2268.9	100.0
0°-180°	2268.9	100.0

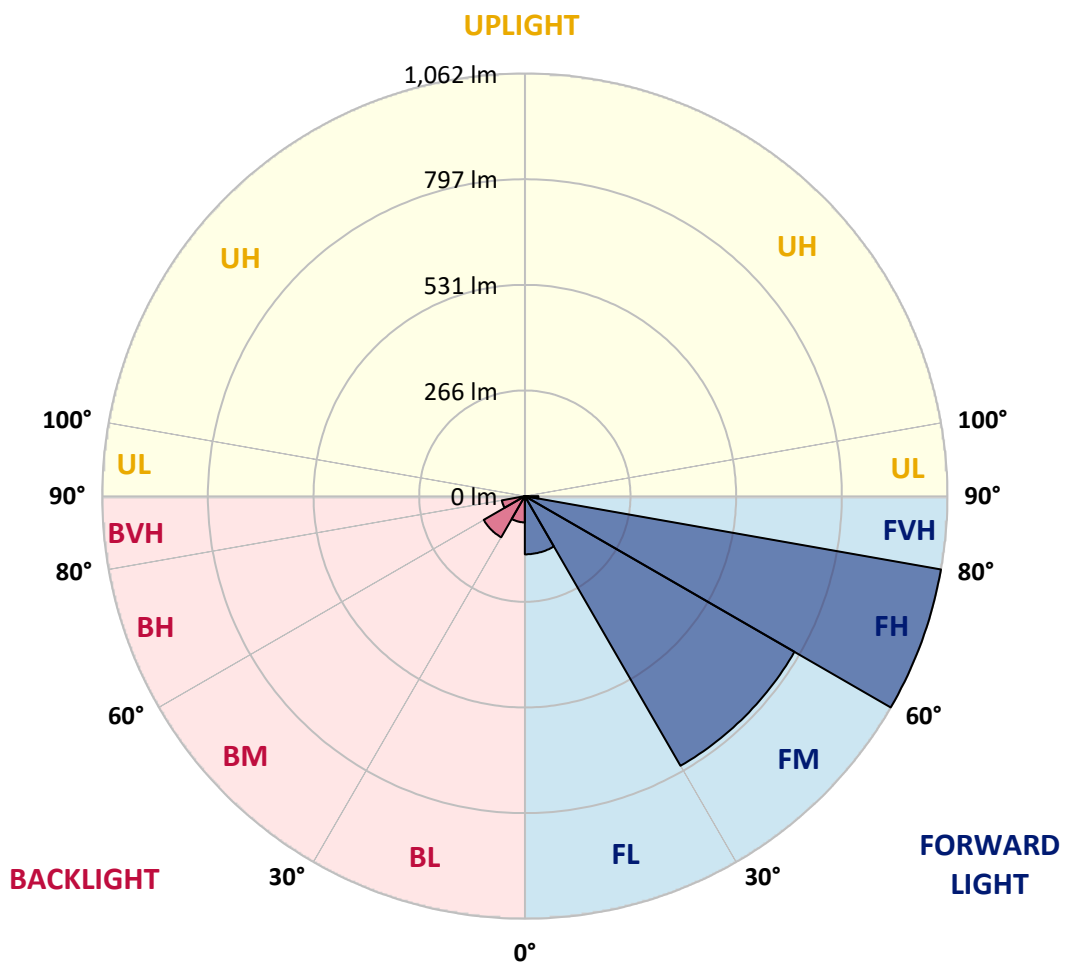


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	146.2	6.4			
FM (30°-60°)	782.4	34.5			
FH (60°-80°)	1062.1	46.8			G1/1800
FVH (80°-90°)	34.0	1.5			G1/100
BL (0°-30°)	66.0	2.9	B0/110		
BM (30°-60°)	119.3	5.3	B0/220		
BH (60°-80°)	58.7	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	242.5	242.5	242.5	242.5	242.5	242.5	242.5	242.5	242.5	242.5	242.5
2.5°	271.4	270.3	272.0	271.4	264.5	265.6	265.1	260.4	252.3	247.7	244.8
5°	302.7	305.6	303.3	298.1	294.0	285.9	284.7	277.2	264.5	256.4	247.7
7.5°	335.1	335.1	330.5	322.4	313.7	305.0	303.8	291.1	280.1	266.2	254.1
10°	359.4	356.5	353.0	344.4	334.5	322.9	317.2	307.9	295.7	279.0	263.3
12.5°	380.8	376.2	370.4	357.7	346.1	333.4	334.5	319.5	311.4	296.3	273.2
15°	393.0	388.9	383.7	372.1	354.2	348.4	346.1	336.8	322.4	307.3	285.3
17.5°	395.9	393.0	386.0	371.0	361.1	354.2	353.6	342.6	336.3	323.5	299.2
20°	390.1	384.9	379.7	369.8	360.6	358.2	356.5	356.5	348.4	331.6	307.9
22.5°	380.2	374.4	371.6	365.8	358.2	357.7	358.8	357.7	351.3	340.3	317.2
25°	372.7	369.8	365.2	363.5	358.8	367.5	365.8	364.0	362.3	349.6	331.6
27.5°	375.0	374.4	371.0	364.0	360.6	369.8	375.0	375.6	375.0	362.3	344.9
30°	376.2	373.3	369.8	368.1	369.2	378.5	378.5	391.2	386.0	373.3	358.2
32.5°	389.5	387.8	376.2	372.1	372.7	383.7	384.3	397.0	395.3	386.6	369.8
35°	417.9	406.3	389.5	377.9	377.9	392.4	387.8	406.3	410.9	397.0	377.9
37.5°	460.1	451.4	421.3	395.3	385.4	395.9	400.5	410.9	424.8	412.6	394.1
40°	544.0	542.3	499.5	443.3	404.5	413.8	415.5	431.7	441.0	424.2	419.0
42.5°	666.7	658.0	618.1	529.6	439.3	435.2	441.6	452.0	474.0	460.1	447.4
45°	786.5	782.5	742.5	643.6	502.4	478.0	474.6	493.1	525.5	510.5	500.6
47.5°	873.3	865.2	842.7	759.3	595.0	528.4	530.7	549.2	590.3	578.7	581.6
50°	939.9	935.8	912.1	866.4	711.9	607.7	603.1	621.6	677.1	684.7	692.8
52.5°	1012.8	1020.3	988.5	949.7	850.2	714.2	703.8	710.1	781.9	799.3	821.8
55°	1082.8	1095.0	1063.2	1058.0	994.9	832.2	830.5	815.5	908.1	910.4	922.5
57.5°	1128.6	1124.5	1122.2	1150.6	1139.6	967.7	959.0	943.9	1027.9	1012.8	1049.3
60°	1132.0	1143.6	1182.4	1252.4	1272.1	1126.8	1114.1	1073.0	1131.5	1095.6	1165.0
62.5°	1158.1	1167.3	1239.1	1335.7	1361.2	1266.9	1275.6	1171.4	1220.0	1191.6	1293.5
65°	1092.1	1121.0	1265.1	1400.6	1478.1	1408.7	1400.0	1298.1	1310.9	1284.2	1420.2
67.5°	1032.5	1043.5	1194.0	1420.2	1570.7	1551.0	1547.6	1410.4	1404.6	1355.4	1456.1
70°	839.2	852.5	1001.2	1319.5	1602.0	1717.1	1709.0	1567.8	1468.3	1316.7	1272.1
72.5°	480.9	507.6	693.9	1016.3	1439.3	1763.4	1771.0	1593.3	1393.0	1107.1	849.6
75°	157.4	164.9	288.2	575.9	1076.5	1538.3	1525.0	1369.3	1123.9	731.0	383.7
77.5°	53.2	54.4	85.1	208.3	596.7	1039.4	1047.0	978.7	690.4	303.8	105.9
80°	27.2	28.9	41.7	78.1	245.4	566.0	578.2	557.9	289.4	89.7	25.5
82.5°	12.7	13.3	24.3	43.4	112.3	222.2	222.2	244.2	102.4	50.4	10.4
85°	4.6	4.6	12.7	24.9	47.5	74.1	74.7	75.2	53.8	37.6	4.6
87.5°	1.7	1.7	6.4	10.4	17.4	22.6	22.6	17.9	27.2	24.9	1.7
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°	242.5	242.5	242.5	242.5	242.5	242.5	242.5	242.5	242.5	242.5	242.5
2.5°	243.7	240.2	237.3	233.2	228.0	225.1	225.7	222.2	222.2	220.5	219.9
5°	243.7	240.2	232.7	225.7	221.1	215.3	212.4	210.1	210.1	208.9	209.5
7.5°	245.4	240.2	229.8	220.5	213.0	207.2	202.6	202.0	200.8	197.9	200.2
10°	255.8	248.3	230.9	218.2	209.5	203.1	195.0	192.7	189.3	184.0	184.6
12.5°	264.5	254.6	239.0	221.7	210.7	200.2	181.7	161.5	152.8	143.5	144.1
15°	277.2	263.3	241.9	226.3	210.7	177.1	143.5	117.5	103.6	96.7	96.7
17.5°	284.2	272.6	250.0	229.2	193.9	144.1	101.9	79.3	77.0	78.1	78.1
20°	298.6	283.0	259.3	231.5	166.1	102.4	74.7	72.3	73.5	75.8	75.2
22.5°	307.9	292.3	266.2	221.1	128.5	73.5	70.0	68.9	70.0	72.9	72.9
25°	315.4	305.6	277.2	195.6	90.9	66.6	65.4	66.6	67.7	68.9	70.6
27.5°	333.9	317.2	284.7	162.6	65.4	61.9	63.1	63.7	63.7	65.4	66.0
30°	346.1	332.8	290.5	125.6	57.9	57.3	58.5	59.0	59.6	61.3	61.9
32.5°	357.7	353.0	283.0	85.1	54.4	53.2	52.7	53.2	55.6	57.3	56.7
35°	374.4	371.6	272.0	59.0	50.9	48.6	47.5	48.0	49.8	51.5	50.9
37.5°	394.7	397.6	245.4	51.5	47.5	44.6	42.2	42.2	42.8	44.6	45.1
40°	418.4	426.0	214.1	48.0	45.1	41.7	39.4	36.5	35.9	35.3	35.9
42.5°	461.8	470.5	178.8	45.7	41.7	37.6	34.1	30.7	27.8	26.0	26.0
45°	522.6	515.7	132.5	43.4	39.9	34.1	28.9	24.9	20.8	19.1	19.1
47.5°	606.5	582.8	90.9	41.1	37.0	30.1	24.3	19.1	15.6	13.9	13.9
50°	722.9	644.7	59.0	38.8	35.3	26.0	19.7	13.9	11.6	11.0	11.6
52.5°	832.8	707.8	46.9	35.9	31.8	22.6	15.0	11.6	10.4	9.8	9.8
55°	934.1	739.6	41.7	33.0	28.9	18.5	12.7	9.8	9.3	8.7	8.7
57.5°	1019.8	750.6	35.9	28.9	23.1	14.5	10.4	8.7	7.5	6.9	6.9
60°	1093.8	753.5	27.8	23.1	16.8	11.0	8.7	7.5	6.4	5.2	5.2
62.5°	1152.9	733.3	19.7	16.2	11.6	8.7	7.5	5.2	3.5	2.3	1.7
65°	1199.7	692.8	13.3	11.0	7.5	6.4	4.6	2.3	0.6	0.0	0.0
67.5°	1144.8	600.7	10.4	8.1	5.2	4.1	2.3	0.6	0.0	0.0	0.0
70°	933.5	465.9	7.5	5.2	3.5	1.2	0.6	0.0	0.0	0.0	0.0
72.5°	635.5	300.4	5.8	3.5	1.7	0.6	0.0	0.0	0.0	0.0	0.0
75°	285.3	107.6	4.1	2.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	69.4	25.5	2.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.5	6.4	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.9	2.3	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.6	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)