

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: P675234

Luminaire Tested: **CCW-SA-1B-727-U-T4W**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675234  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-727-U-T4W  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
T4W distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

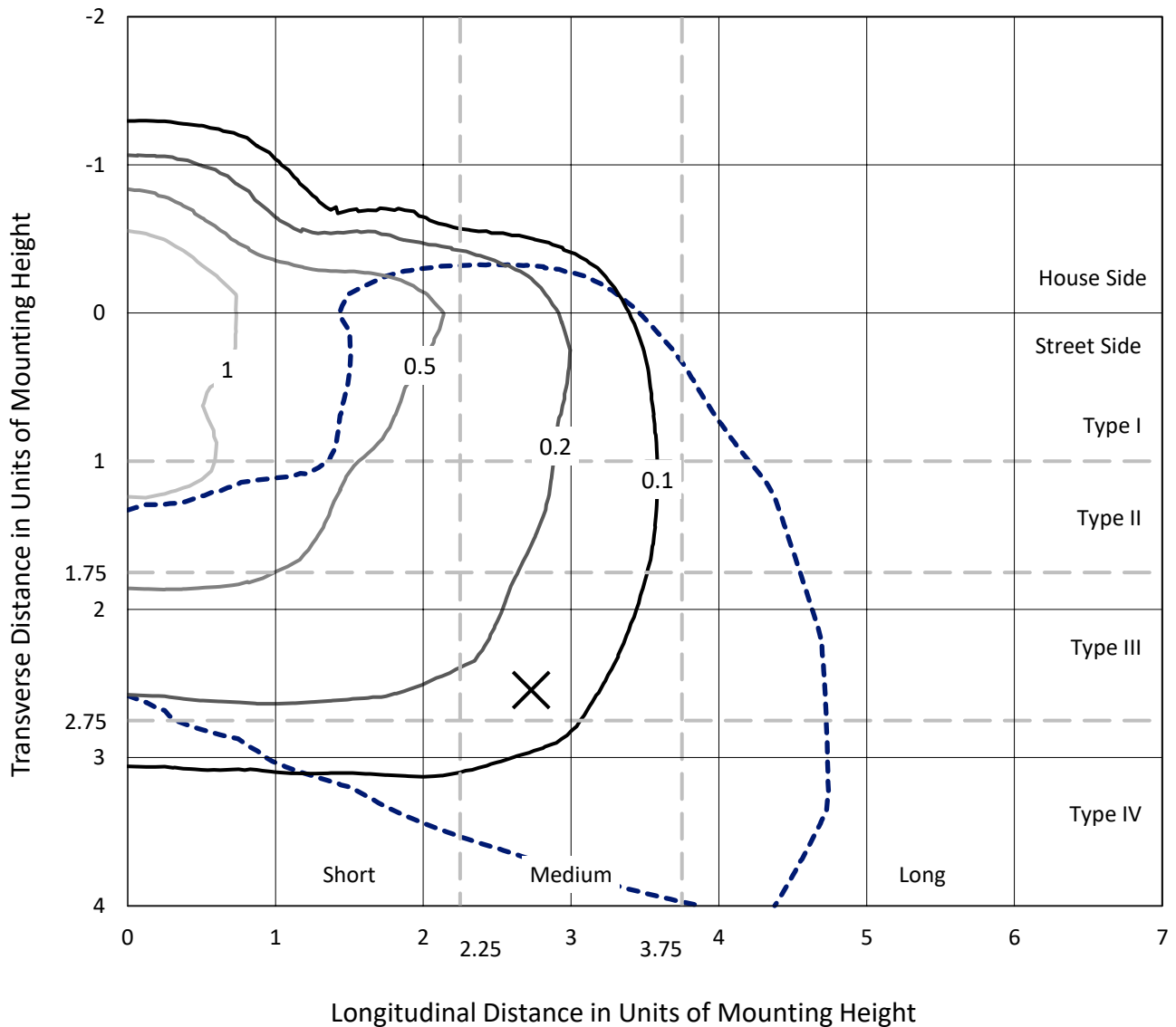
Lumens per Lamp: N/A  
Luminaire Lumens: 2913.7 lumens  
Efficiency: N/A  
Efficacy: 121.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

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

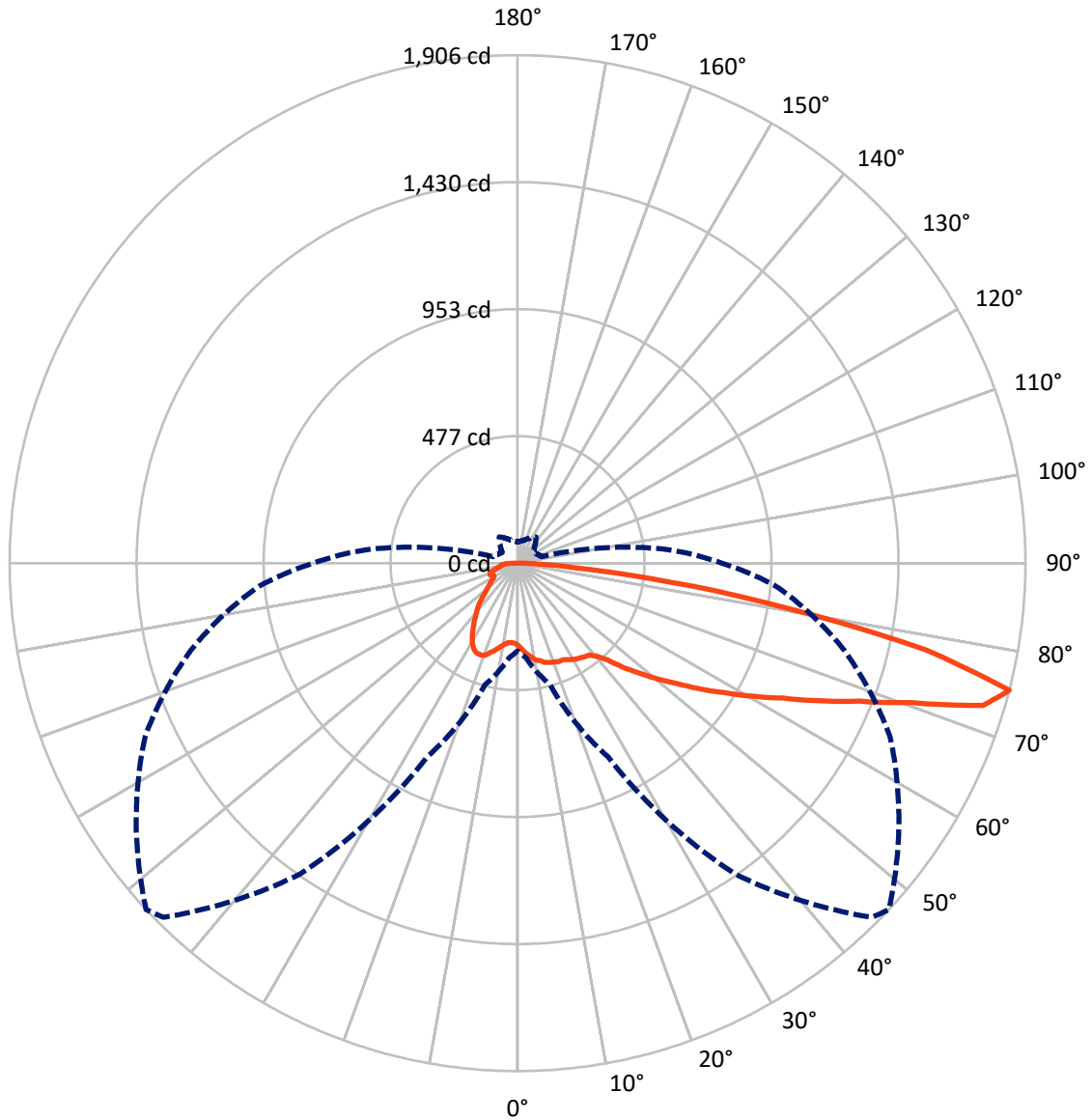
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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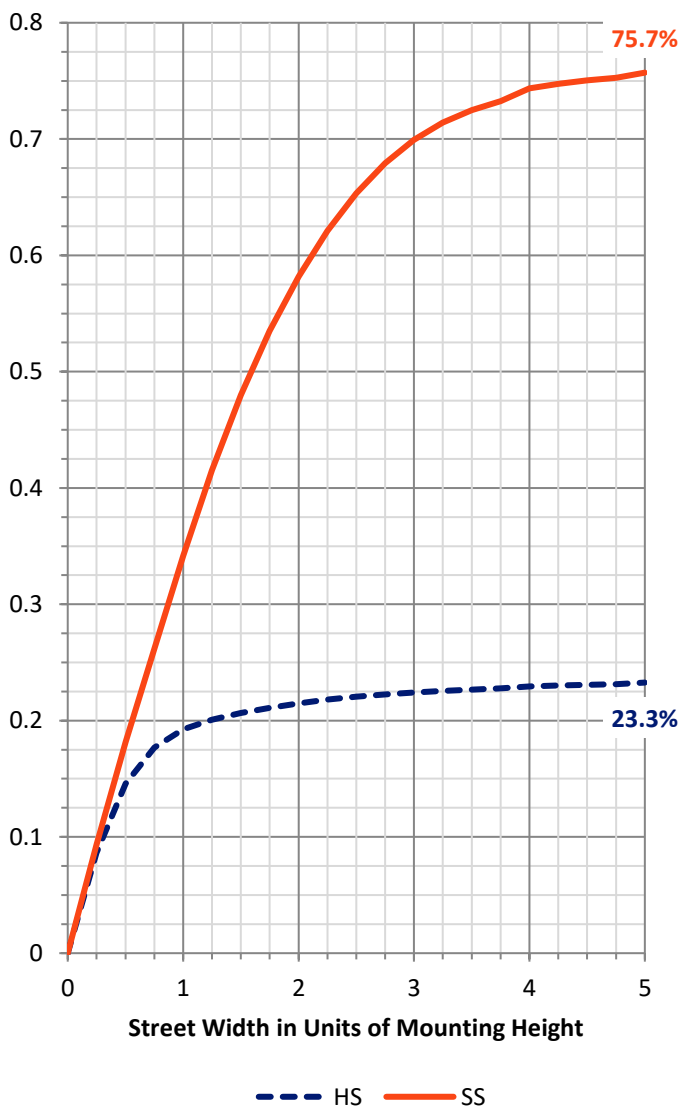
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	696.8	0.0	696.8
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	2216.9	0.0	2216.9
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	2913.7	0.0	2913.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.3	1.1
10°-20°	103.9	3.6
20°-30°	177.9	6.1
30°-40°	248.9	8.5
40°-50°	347.1	11.9
50°-60°	518.8	17.8
60°-70°	747.9	25.7
70°-80°	636.6	21.8
80°-90°	101.4	3.5
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°	2913.7	100.0
0°-180°	2913.7	100.0



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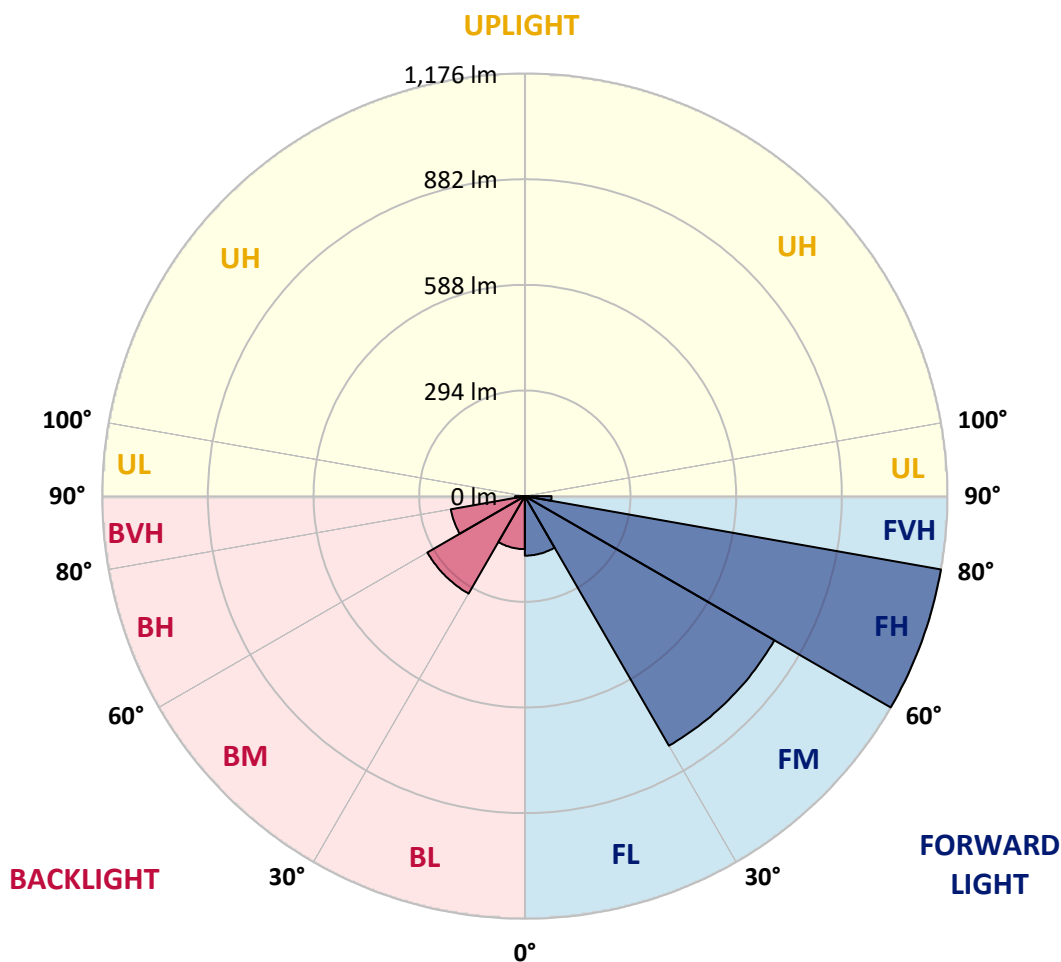
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	165.5	5.7			
FM (30°-60°)	801.5	27.5			
FH (60°-80°)	1175.5	40.3			G1/1800
FVH (80°-90°)	74.3	2.6			G1/100
BL (0°-30°)	147.5	5.1	B1/500		
BM (30°-60°)	313.2	10.7	B1/1000		
BH (60°-80°)	209.0	7.2	B1/500		G1/500
BVH (80°-90°)	27.1	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	309.4	309.4	309.4	309.4	309.4	309.4	309.4	309.4	309.4	309.4	309.4
2.5°	331.7	332.8	332.8	330.6	328.5	324.3	324.3	320.0	317.9	312.6	310.4
5°	362.5	359.3	356.2	355.1	349.8	342.3	341.3	337.0	325.3	320.0	312.6
7.5°	384.9	383.8	382.7	378.5	368.9	357.2	354.0	347.7	336.0	325.3	316.8
10°	402.9	407.2	402.9	393.4	383.8	371.0	370.0	358.3	347.7	334.9	324.3
12.5°	423.1	424.2	416.8	405.1	390.2	379.5	375.3	371.0	359.3	348.7	332.8
15°	437.0	434.8	429.5	413.6	396.6	385.9	387.0	381.7	368.9	361.5	344.5
17.5°	437.0	437.0	428.4	416.8	401.9	392.3	392.3	389.1	380.6	370.0	358.3
20°	428.4	428.4	423.1	416.8	399.7	397.6	395.5	393.4	393.4	383.8	366.8
22.5°	417.8	415.7	417.8	407.2	395.5	397.6	400.8	399.7	396.6	388.1	376.4
25°	407.2	408.2	410.4	402.9	392.3	401.9	400.8	406.1	404.0	397.6	388.1
27.5°	406.1	408.2	409.3	401.9	397.6	406.1	410.4	415.7	416.8	410.4	398.7
30°	422.1	421.0	419.9	410.4	407.2	414.6	418.9	426.3	432.7	418.9	409.3
32.5°	463.5	457.2	450.8	425.3	415.7	421.0	425.3	435.9	437.0	429.5	415.7
35°	529.4	525.2	503.9	459.3	432.7	427.4	431.6	439.1	441.2	435.9	425.3
37.5°	604.9	602.8	573.0	518.8	467.8	442.3	438.0	448.6	457.2	445.5	430.6
40°	679.4	670.8	649.6	596.4	512.4	464.6	459.3	464.6	467.8	459.3	449.7
42.5°	746.3	736.8	731.4	678.3	570.9	501.8	497.6	484.8	494.4	483.7	471.0
45°	802.7	800.6	798.4	752.7	637.9	562.4	559.2	526.3	536.9	528.4	510.3
47.5°	843.1	852.6	849.5	823.9	714.4	627.3	617.7	575.2	591.1	582.6	564.5
50°	890.9	896.2	893.0	876.0	785.7	701.7	683.6	640.0	658.1	657.0	647.5
52.5°	933.4	949.4	931.3	930.3	887.7	782.5	751.6	710.2	740.0	751.6	750.6
55°	983.4	996.2	990.9	988.7	979.2	861.2	833.5	783.5	833.5	850.5	865.4
57.5°	1025.9	1024.9	1045.1	1069.5	1081.2	951.5	918.6	860.1	935.6	954.7	996.2
60°	1045.1	1063.2	1097.2	1158.8	1191.8	1048.3	1014.2	967.5	1038.7	1053.6	1130.1
62.5°	1057.8	1073.8	1139.7	1243.9	1263.0	1147.1	1115.2	1068.5	1151.4	1162.0	1275.8
65°	1022.8	1037.6	1168.4	1275.8	1343.8	1253.5	1246.0	1197.1	1264.1	1270.5	1428.9
67.5°	982.4	998.3	1144.0	1316.2	1451.2	1394.9	1383.2	1324.7	1375.7	1368.3	1545.8
70°	911.1	932.4	1081.2	1351.3	1570.3	1592.6	1569.2	1486.3	1491.6	1421.4	1551.1
72.5°	694.2	708.1	846.3	1212.0	1625.6	1866.9	1826.5	1660.6	1600.0	1432.1	1369.3
75°	329.6	355.1	472.0	801.6	1424.6	1879.7	1906.2	1746.8	1542.6	1270.5	970.7
77.5°	95.7	95.7	143.5	340.2	893.0	1515.0	1565.0	1483.1	1272.6	940.9	510.3
80°	52.1	55.3	75.5	120.1	392.3	955.8	1028.1	983.4	749.5	372.1	131.8
82.5°	29.8	30.8	50.0	72.3	178.6	519.9	562.4	510.3	284.9	112.7	61.7
85°	17.0	18.1	28.7	47.8	106.3	191.4	208.4	180.7	114.8	75.5	30.8
87.5°	8.5	8.5	13.8	22.3	54.2	54.2	53.2	64.9	69.1	45.7	13.8
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°	309.4	309.4	309.4	309.4	309.4	309.4	309.4	309.4	309.4	309.4	309.4
2.5°	309.4	308.3	308.3	304.1	303.0	299.8	299.8	297.7	296.6	299.8	299.8
5°	310.4	305.1	304.1	299.8	300.9	298.7	303.0	300.9	299.8	299.8	298.7
7.5°	312.6	307.3	303.0	299.8	298.7	301.9	307.3	307.3	313.6	310.4	310.4
10°	317.9	314.7	309.4	307.3	307.3	310.4	316.8	321.1	326.4	326.4	323.2
12.5°	330.6	325.3	318.9	315.8	320.0	323.2	329.6	333.8	340.2	342.3	340.2
15°	340.2	334.9	332.8	330.6	333.8	338.1	343.4	347.7	355.1	357.2	356.2
17.5°	353.0	346.6	345.5	346.6	348.7	351.9	355.1	358.3	363.6	363.6	363.6
20°	359.3	357.2	356.2	359.3	363.6	367.9	365.7	363.6	362.5	364.7	363.6
22.5°	371.0	368.9	370.0	373.2	373.2	371.0	367.9	360.4	358.3	360.4	358.3
25°	381.7	379.5	379.5	377.4	376.4	368.9	362.5	356.2	348.7	351.9	350.8
27.5°	392.3	391.2	391.2	382.7	372.1	359.3	350.8	343.4	339.1	344.5	341.3
30°	405.1	406.1	400.8	380.6	355.1	341.3	331.7	330.6	329.6	332.8	331.7
32.5°	416.8	417.8	409.3	377.4	342.3	315.8	306.2	307.3	312.6	317.9	323.2
35°	423.1	428.4	417.8	366.8	316.8	287.1	276.4	286.0	295.6	303.0	308.3
37.5°	434.8	448.6	430.6	355.1	294.5	261.5	254.1	257.3	269.0	280.7	286.0
40°	451.8	467.8	433.8	332.8	264.7	236.0	231.8	232.8	237.1	244.5	249.8
42.5°	481.6	498.6	437.0	304.1	235.0	220.1	208.4	205.2	202.0	202.0	200.9
45°	525.2	541.1	432.7	267.9	205.2	194.6	186.1	178.6	170.1	156.3	158.4
47.5°	589.0	601.7	435.9	236.0	177.5	169.0	162.7	154.2	141.4	126.5	125.5
50°	685.7	666.6	431.6	203.1	157.3	149.9	144.6	132.9	118.0	107.4	106.3
52.5°	798.4	760.2	427.4	175.4	140.3	134.0	129.7	116.9	103.1	97.8	96.7
55°	934.5	879.2	433.8	151.0	127.6	122.3	118.0	106.3	95.7	91.4	90.4
57.5°	1095.0	1007.9	468.8	131.8	113.8	111.6	110.6	101.0	91.4	88.2	87.2
60°	1246.0	1131.2	492.2	118.0	101.0	103.1	105.3	101.0	90.4	88.2	88.2
62.5°	1372.5	1233.3	455.0	106.3	94.6	101.0	110.6	107.4	103.1	105.3	103.1
65°	1484.2	1268.3	340.2	99.9	91.4	106.3	122.3	121.2	111.6	113.8	112.7
67.5°	1503.3	1225.8	222.2	94.6	89.3	116.9	137.1	124.4	105.3	105.3	102.1
70°	1423.6	1112.1	148.8	89.3	88.2	116.9	140.3	116.9	98.9	98.9	94.6
72.5°	1168.4	888.8	114.8	84.0	80.8	104.2	132.9	110.6	92.5	90.4	82.9
75°	767.6	573.0	93.6	79.7	70.2	91.4	120.1	102.1	88.2	81.9	78.7
77.5°	376.4	257.3	78.7	70.2	60.6	79.7	109.5	96.7	82.9	76.5	74.4
80°	103.1	92.5	65.9	61.7	51.0	69.1	103.1	92.5	77.6	71.2	68.0
82.5°	58.5	57.4	53.2	50.0	42.5	69.1	104.2	92.5	73.4	72.3	61.7
85°	31.9	34.0	38.3	37.2	33.0	61.7	98.9	80.8	59.5	50.0	50.0
87.5°	12.8	15.9	19.1	21.3	22.3	45.7	74.4	61.7	45.7	38.3	38.3
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)