

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: P671169

Luminaire Tested: **CCP-SA-1B-840-U-T4W**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671169  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-840-U-T4W  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T4W distribution lens  
Light Source: (16) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

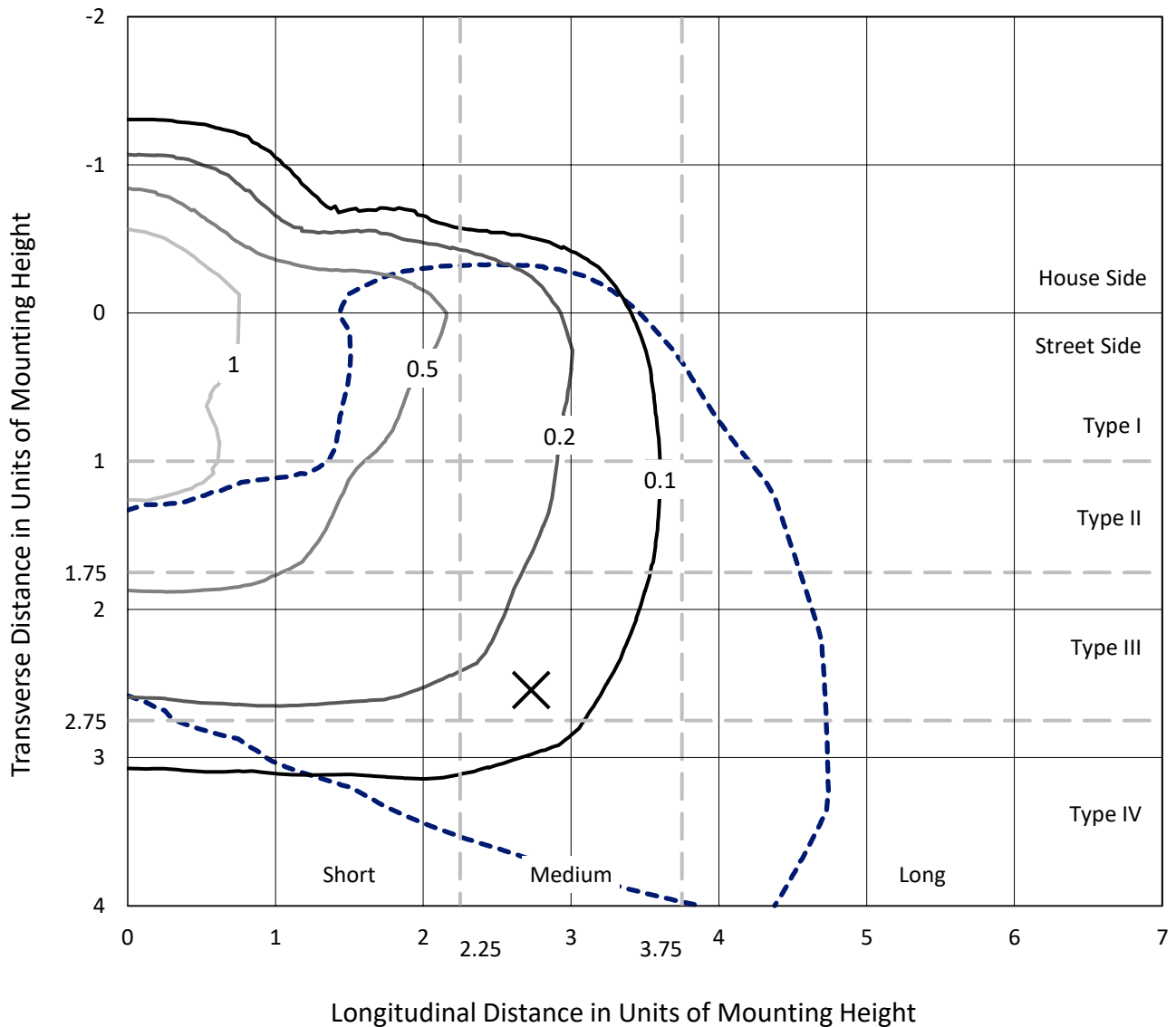
Lumens per Lamp: N/A  
Luminaire Lumens: 2970.5 lumens  
Efficiency: N/A  
Efficacy: 123.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

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

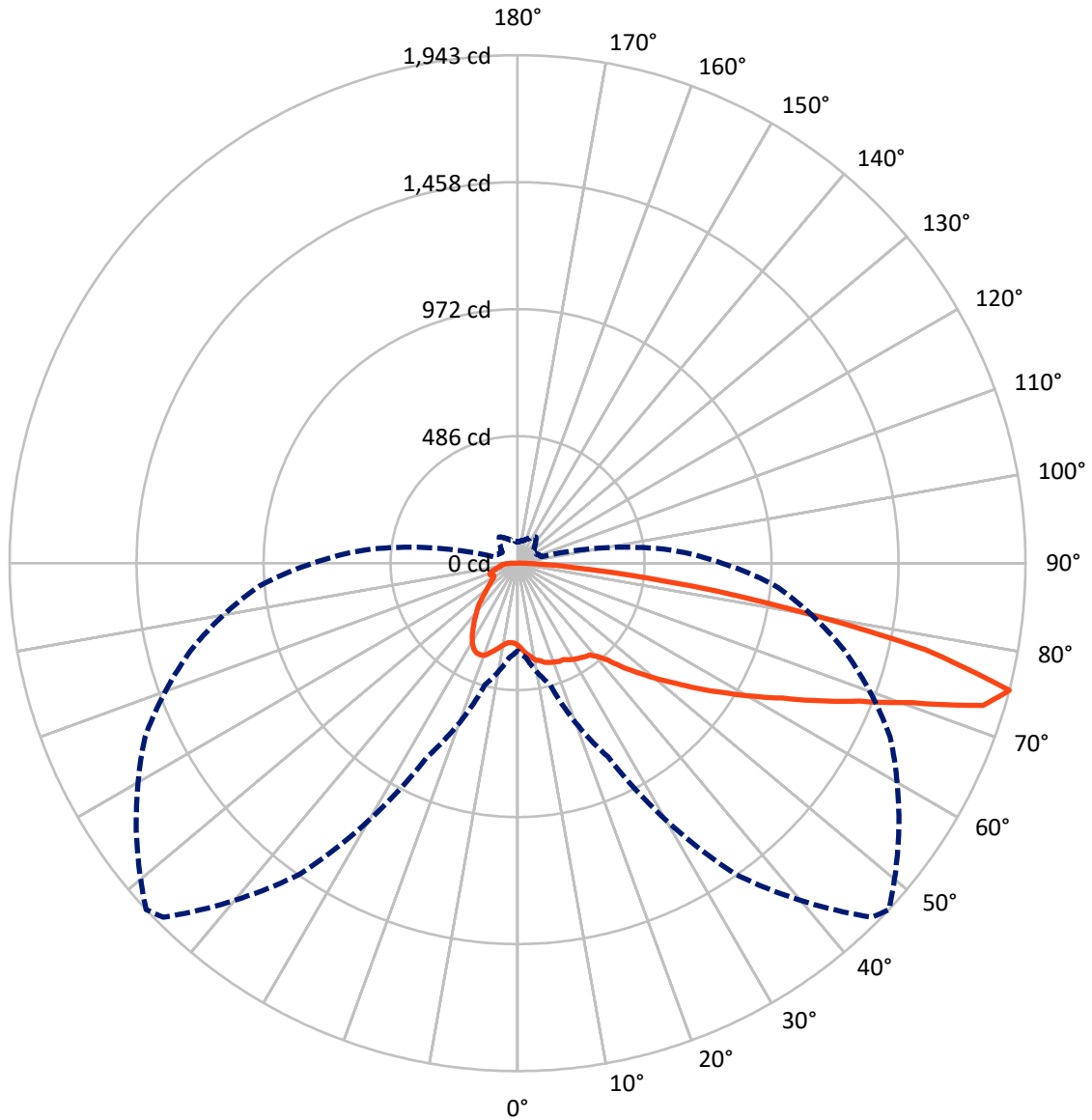
× Max cd  
 - - - 1/2 Max cd



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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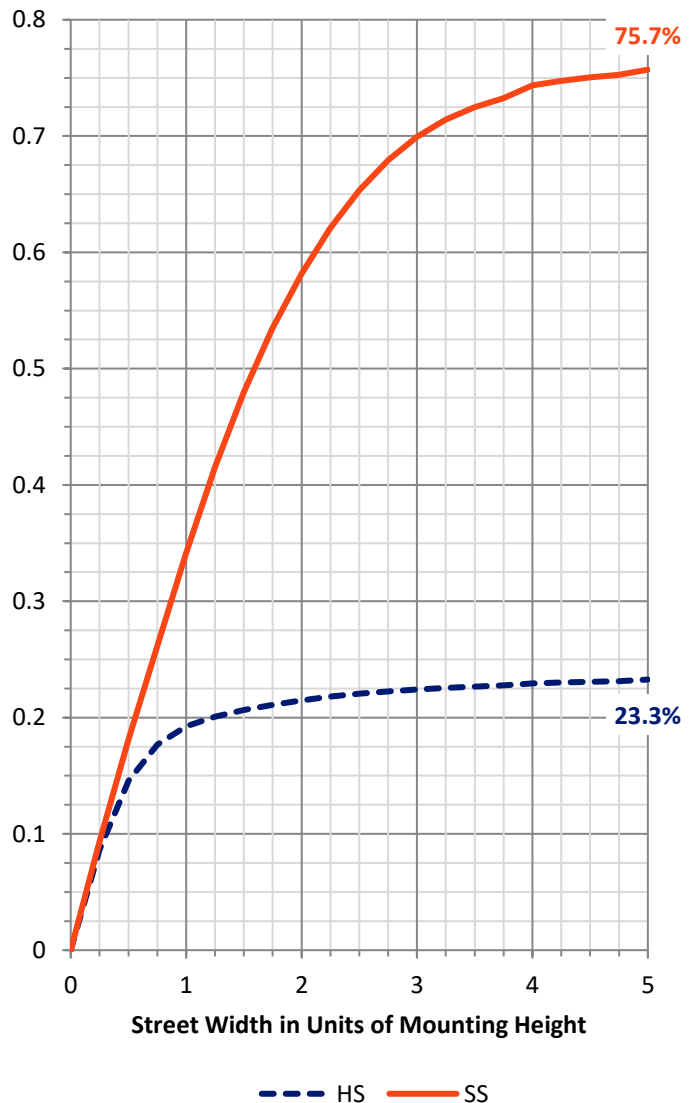
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	710.4	0.0	710.4
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	2260.1	0.0	2260.1
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	2970.5	0.0	2970.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.9	1.1
10°-20°	105.9	3.6
20°-30°	181.4	6.1
30°-40°	253.8	8.5
40°-50°	353.8	11.9
50°-60°	528.9	17.8
60°-70°	762.5	25.7
70°-80°	649.1	21.8
80°-90°	103.4	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°	2970.5	100.0
0°-180°	2970.5	100.0

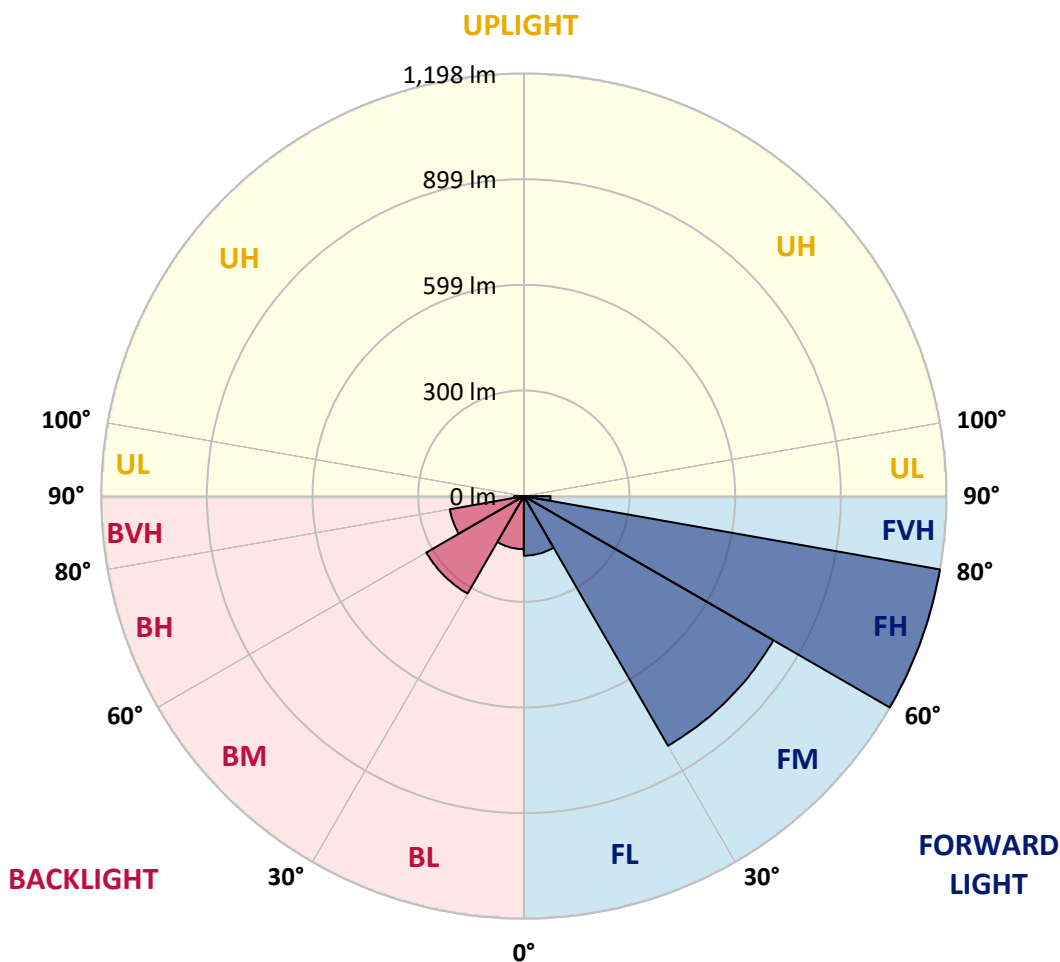


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	168.8	5.7			
FM (30°-60°)	817.2	27.5			
FH (60°-80°)	1198.4	40.3			G1/1800
FVH (80°-90°)	75.8	2.6			G1/100
BL (0°-30°)	150.4	5.1	B1/500		
BM (30°-60°)	319.3	10.7	B1/1000		
BH (60°-80°)	213.1	7.2	B1/500		G1/500
BVH (80°-90°)	27.6	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°	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4
2.5°	338.2	339.3	339.3	337.1	334.9	330.6	330.6	326.2	324.1	318.7	316.5
5°	369.6	366.3	363.1	362.0	356.6	349.0	347.9	343.6	331.7	326.2	318.7
7.5°	392.4	391.3	390.2	385.9	376.1	364.2	360.9	354.4	342.5	331.7	323.0
10°	410.8	415.1	410.8	401.0	391.3	378.3	377.2	365.3	354.4	341.4	330.6
12.5°	431.4	432.5	424.9	413.0	397.8	386.9	382.6	378.3	366.3	355.5	339.3
15°	445.5	443.3	437.9	421.6	404.3	393.4	394.5	389.1	376.1	368.5	351.2
17.5°	445.5	445.5	436.8	424.9	409.7	399.9	399.9	396.7	388.0	377.2	365.3
20°	436.8	436.8	431.4	424.9	407.5	405.4	403.2	401.0	401.0	391.3	373.9
22.5°	426.0	423.8	426.0	415.1	403.2	405.4	408.6	407.5	404.3	395.6	383.7
25°	415.1	416.2	418.4	410.8	399.9	409.7	408.6	414.0	411.9	405.4	395.6
27.5°	414.0	416.2	417.3	409.7	405.4	414.0	418.4	423.8	424.9	418.4	406.5
30°	430.3	429.2	428.1	418.4	415.1	422.7	427.0	434.6	441.1	427.0	417.3
32.5°	472.6	466.1	459.6	433.5	423.8	429.2	433.5	444.4	445.5	437.9	423.8
35°	539.8	535.4	513.8	468.2	441.1	435.7	440.1	447.6	449.8	444.4	433.5
37.5°	616.7	614.6	584.2	528.9	476.9	450.9	446.6	457.4	466.1	454.1	439.0
40°	692.6	683.9	662.2	608.1	522.4	473.7	468.2	473.7	476.9	468.2	458.5
42.5°	760.9	751.1	745.7	691.5	582.0	511.6	507.3	494.2	504.0	493.2	480.2
45°	818.3	816.2	814.0	767.4	650.3	573.4	570.1	536.5	547.4	538.7	520.3
47.5°	859.5	869.3	866.0	840.0	728.4	639.5	629.7	586.4	602.6	594.0	575.5
50°	908.3	913.7	910.5	893.1	801.0	715.4	696.9	652.5	670.9	669.8	660.1
52.5°	951.6	967.9	949.5	948.4	905.0	797.7	766.3	724.0	754.4	766.3	765.2
55°	1002.6	1015.6	1010.2	1008.0	998.2	877.9	849.8	798.8	849.8	867.1	882.3
57.5°	1045.9	1044.9	1065.4	1090.4	1102.3	970.1	936.5	876.9	953.8	973.3	1015.6
60°	1065.4	1083.9	1118.6	1181.4	1215.0	1068.7	1034.0	986.3	1058.9	1074.1	1152.2
62.5°	1078.5	1094.7	1161.9	1268.1	1287.6	1169.5	1137.0	1089.3	1173.8	1184.7	1300.6
65°	1042.7	1057.9	1191.2	1300.6	1370.0	1277.9	1270.3	1220.4	1288.7	1295.2	1456.7
67.5°	1001.5	1017.8	1166.2	1341.8	1479.5	1422.0	1410.1	1350.5	1402.5	1394.9	1576.0
70°	928.9	950.6	1102.3	1377.6	1600.9	1623.6	1599.8	1515.3	1520.7	1449.1	1581.4
72.5°	707.8	721.9	862.8	1235.6	1657.2	1903.3	1862.1	1693.0	1631.2	1460.0	1396.0
75°	336.0	362.0	481.2	817.2	1452.4	1916.3	1943.4	1780.8	1572.7	1295.2	989.6
77.5°	97.5	97.5	146.3	346.8	910.5	1544.5	1595.5	1512.0	1297.4	959.2	520.3
80°	53.1	56.4	77.0	122.5	399.9	974.4	1048.1	1002.6	764.1	379.4	134.4
82.5°	30.3	31.4	50.9	73.7	182.1	530.0	573.4	520.3	290.5	114.9	62.9
85°	17.3	18.4	29.3	48.8	108.4	195.1	212.4	184.3	117.1	77.0	31.4
87.5°	8.7	8.7	14.1	22.8	55.3	55.3	54.2	66.1	70.5	46.6	14.1
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°	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4	315.4
2.5°	315.4	314.3	314.3	310.0	308.9	305.7	305.7	303.5	302.4	305.7	305.7
5°	316.5	311.1	310.0	305.7	306.7	304.6	308.9	306.7	305.7	305.7	304.6
7.5°	318.7	313.2	308.9	305.7	304.6	307.8	313.2	313.2	319.7	316.5	316.5
10°	324.1	320.8	315.4	313.2	313.2	316.5	323.0	327.3	332.7	332.7	329.5
12.5°	337.1	331.7	325.2	321.9	326.2	329.5	336.0	340.3	346.8	349.0	346.8
15°	346.8	341.4	339.3	337.1	340.3	344.7	350.1	354.4	362.0	364.2	363.1
17.5°	359.8	353.3	352.3	353.3	355.5	358.8	362.0	365.3	370.7	370.7	370.7
20°	366.3	364.2	363.1	366.3	370.7	375.0	372.9	370.7	369.6	371.8	370.7
22.5°	378.3	376.1	377.2	380.4	380.4	378.3	375.0	367.4	365.3	367.4	365.3
25°	389.1	386.9	386.9	384.8	383.7	376.1	369.6	363.1	355.5	358.8	357.7
27.5°	399.9	398.9	398.9	390.2	379.4	366.3	357.7	350.1	345.8	351.2	347.9
30°	413.0	414.0	408.6	388.0	362.0	347.9	338.2	337.1	336.0	339.3	338.2
32.5°	424.9	426.0	417.3	384.8	349.0	321.9	312.2	313.2	318.7	324.1	329.5
35°	431.4	436.8	426.0	373.9	323.0	292.6	281.8	291.6	301.3	308.9	314.3
37.5°	443.3	457.4	439.0	362.0	300.2	266.6	259.0	262.3	274.2	286.1	291.6
40°	460.6	476.9	442.2	339.3	269.9	240.6	236.3	237.4	241.7	249.3	254.7
42.5°	491.0	508.3	445.5	310.0	239.5	224.4	212.4	209.2	205.9	205.9	204.9
45°	535.4	551.7	441.1	273.1	209.2	198.3	189.7	182.1	173.4	159.3	161.5
47.5°	600.5	613.5	444.4	240.6	181.0	172.3	165.8	157.2	144.2	129.0	127.9
50°	699.1	679.6	440.1	207.0	160.4	152.8	147.4	135.5	120.3	109.5	108.4
52.5°	814.0	775.0	435.7	178.8	143.1	136.6	132.2	119.2	105.1	99.7	98.6
55°	952.7	896.4	442.2	153.9	130.1	124.6	120.3	108.4	97.5	93.2	92.1
57.5°	1116.4	1027.5	478.0	134.4	116.0	113.8	112.7	103.0	93.2	90.0	88.9
60°	1270.3	1153.2	501.8	120.3	103.0	105.1	107.3	103.0	92.1	90.0	90.0
62.5°	1399.3	1257.3	463.9	108.4	96.5	103.0	112.7	109.5	105.1	107.3	105.1
65°	1513.1	1293.1	346.8	101.9	93.2	108.4	124.6	123.6	113.8	116.0	114.9
67.5°	1532.6	1249.7	226.5	96.5	91.0	119.2	139.8	126.8	107.3	107.3	104.1
70°	1451.3	1133.7	151.7	91.0	90.0	119.2	143.1	119.2	100.8	100.8	96.5
72.5°	1191.2	906.1	117.1	85.6	82.4	106.2	135.5	112.7	94.3	92.1	84.5
75°	782.6	584.2	95.4	81.3	71.5	93.2	122.5	104.1	90.0	83.5	80.2
77.5°	383.7	262.3	80.2	71.5	61.8	81.3	111.6	98.6	84.5	78.0	75.9
80°	105.1	94.3	67.2	62.9	52.0	70.5	105.1	94.3	79.1	72.6	69.4
82.5°	59.6	58.5	54.2	50.9	43.4	70.5	106.2	94.3	74.8	73.7	62.9
85°	32.5	34.7	39.0	37.9	33.6	62.9	100.8	82.4	60.7	50.9	50.9
87.5°	13.0	16.3	19.5	21.7	22.8	46.6	75.9	62.9	46.6	39.0	39.0
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)