

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: P672045

Luminaire Tested: **CCP-SA-1C-850-U-AFL**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672045  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1C-850-U-AFL  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @615mA w/ AFL distribution lens  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

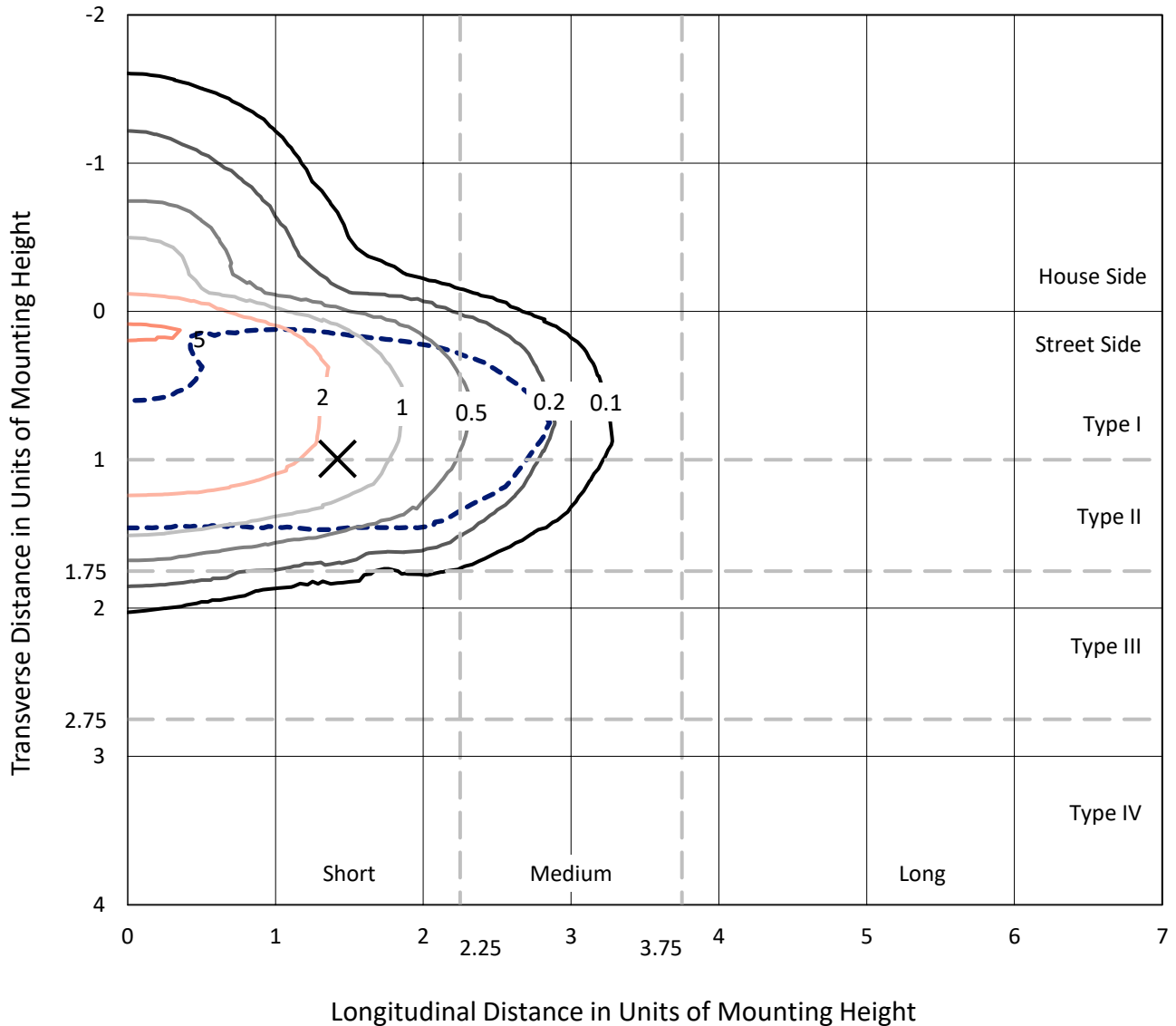
Lumens per Lamp: N/A  
Luminaire Lumens: 3981.4 lumens  
Efficiency: N/A  
Efficacy: 124.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 32  
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

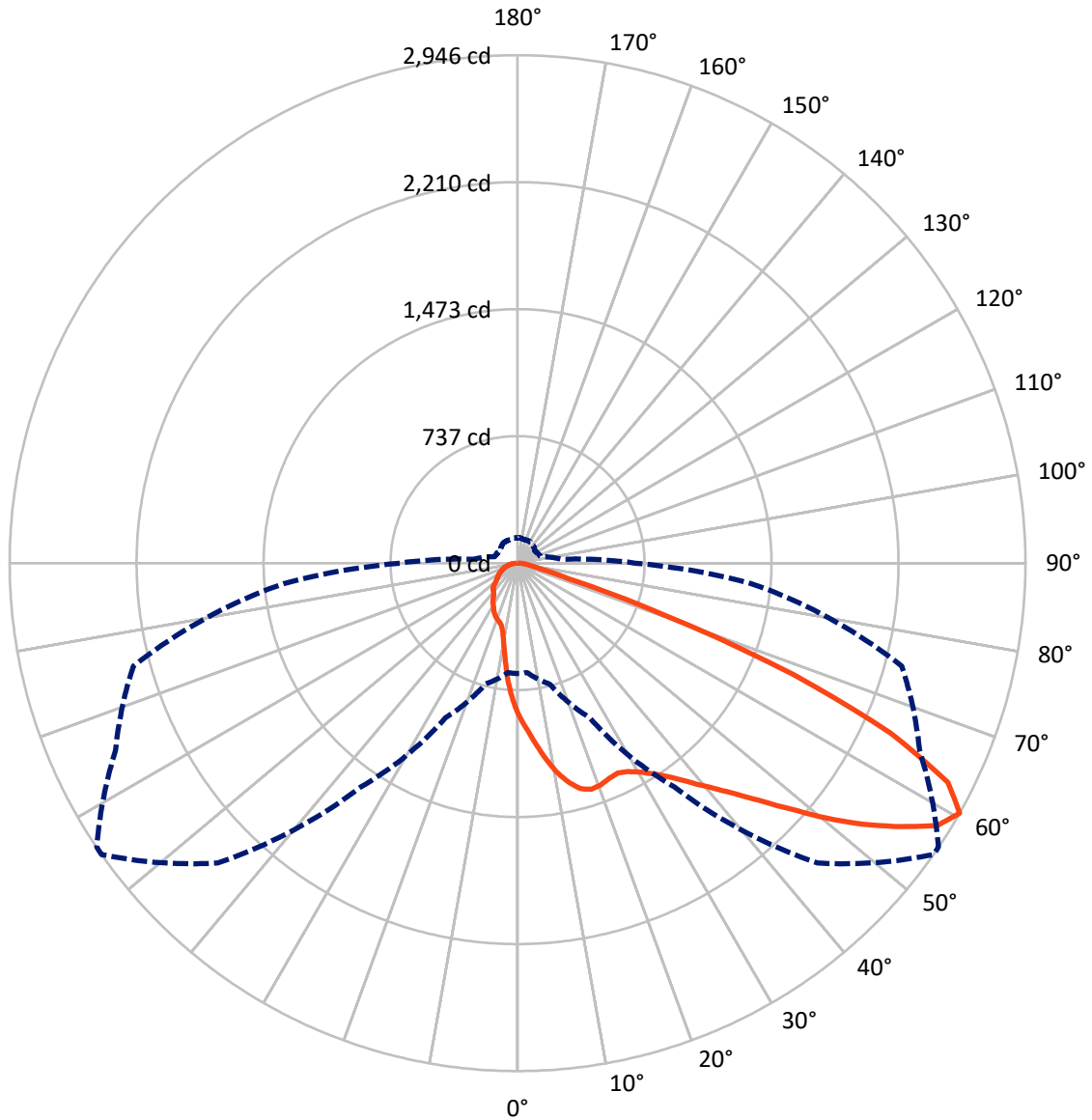
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral      - - - Horizontal Cone Through 60-Deg Vertical

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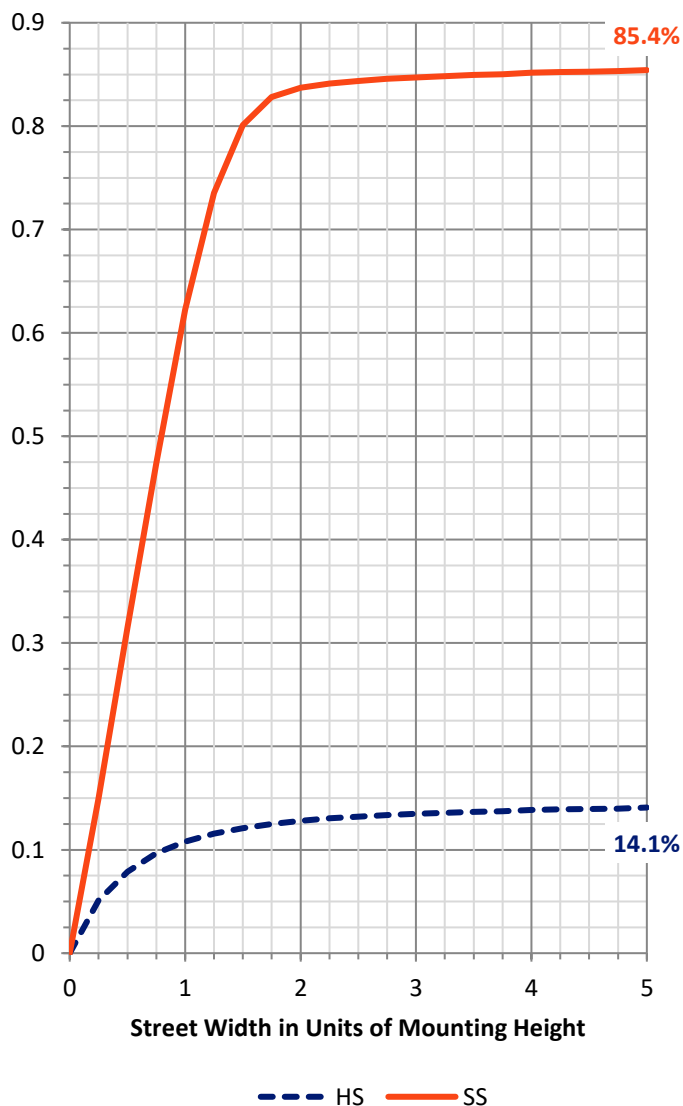
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	572.3	0.0	572.3
	% Fixture	14.4	0.0	14.4
<b>Street Side</b>	Lumens	3409.0	0.0	3409.0
	% Fixture	85.6	0.0	85.6
<b>Total</b>	Lumens	3981.4	0.0	3981.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	2.1
10°-20°	234.1	5.9
20°-30°	381.2	9.6
30°-40°	569.7	14.3
40°-50°	837.3	21.0
50°-60°	981.4	24.6
60°-70°	647.1	16.3
70°-80°	206.0	5.2
80°-90°	41.9	1.1
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°	3981.4	100.0
0°-180°	3981.4	100.0



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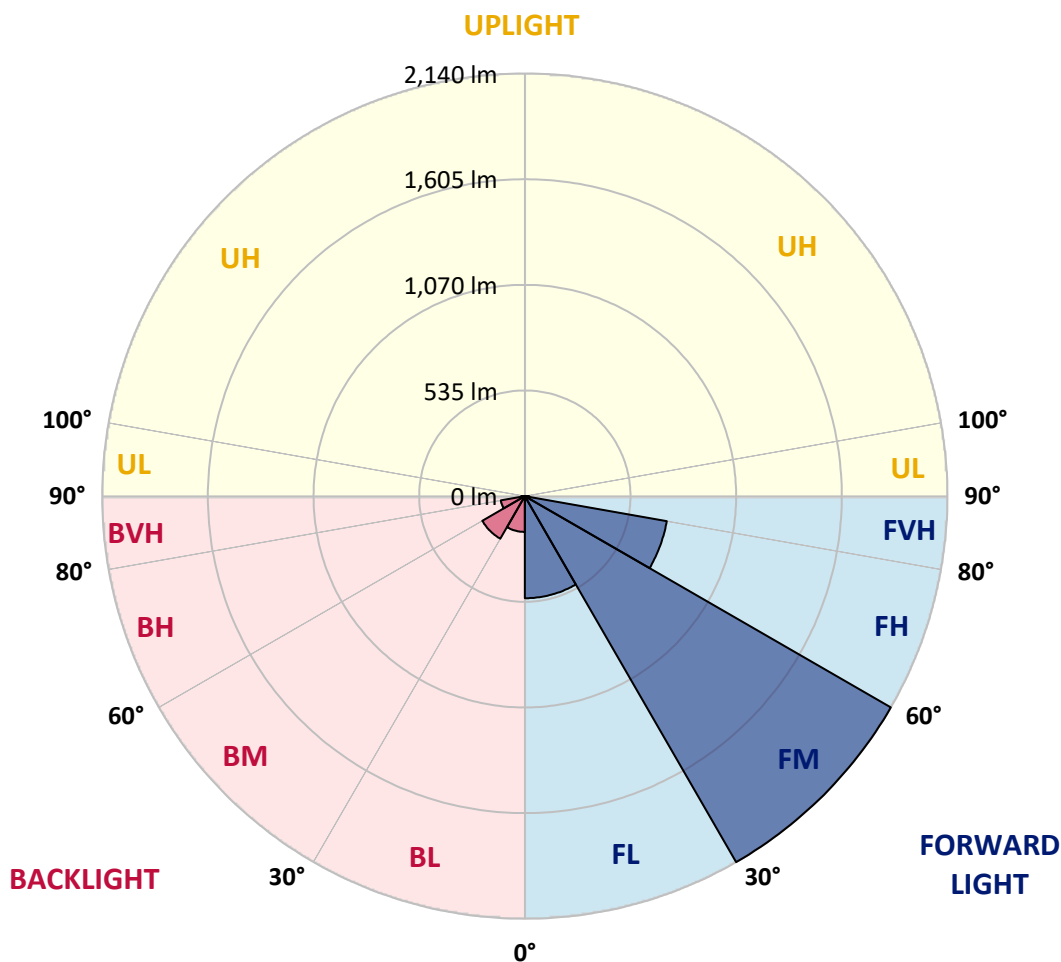
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	516.7	13.0			
FM (30°-60°)	2139.7	53.7			
FH (60°-80°)	729.6	18.3			G1/1800
FVH (80°-90°)	23.0	0.6			G1/100
BL (0°-30°)	181.2	4.6	B1/500		
BM (30°-60°)	248.8	6.2	B1/1000		
BH (60°-80°)	123.5	3.1	B1/500		G1/500
BVH (80°-90°)	18.9	0.5			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0
2.5°	1027.5	1023.8	1023.8	1014.3	1000.1	980.5	957.1	951.4	942.4	919.6	890.2
5°	1184.2	1180.2	1174.7	1158.0	1131.7	1092.5	1043.1	1034.2	1002.1	955.1	902.0
7.5°	1287.8	1285.5	1283.8	1269.3	1243.4	1204.7	1138.6	1128.5	1074.3	996.4	913.3
10°	1277.1	1284.1	1296.2	1306.3	1311.5	1291.6	1229.5	1217.7	1150.5	1044.3	930.0
12.5°	1177.0	1186.8	1209.3	1250.6	1298.2	1336.6	1301.4	1294.7	1231.8	1095.1	951.1
15°	1102.6	1106.6	1117.6	1148.2	1219.1	1321.6	1357.1	1351.0	1307.7	1160.3	975.3
17.5°	1079.5	1081.2	1083.8	1093.9	1142.4	1263.0	1379.9	1385.6	1381.3	1228.1	1002.7
20°	1091.0	1092.2	1092.5	1094.2	1117.3	1213.9	1373.8	1383.6	1445.9	1295.9	1029.8
22.5°	1135.5	1134.0	1132.0	1125.4	1138.3	1205.3	1357.6	1373.2	1495.9	1357.6	1055.0
25°	1213.1	1211.1	1196.9	1183.1	1188.6	1236.5	1349.0	1365.7	1534.8	1415.9	1073.4
27.5°	1305.4	1303.4	1289.0	1262.7	1256.9	1288.4	1369.2	1379.6	1563.4	1467.6	1081.5
30°	1401.2	1401.2	1383.3	1353.0	1334.6	1347.8	1406.4	1414.8	1585.0	1517.5	1086.7
32.5°	1505.7	1508.6	1480.9	1446.2	1425.7	1418.0	1458.6	1465.9	1616.5	1576.4	1097.7
35°	1639.9	1633.5	1599.7	1554.2	1521.3	1503.7	1523.3	1531.6	1662.6	1649.7	1115.3
37.5°	1790.8	1779.5	1738.0	1683.4	1626.0	1596.6	1609.6	1611.6	1731.0	1745.2	1147.3
40°	1915.4	1913.4	1878.2	1826.5	1754.1	1714.6	1708.2	1709.4	1826.0	1858.3	1195.8
42.5°	2020.5	2013.0	2006.6	1988.4	1911.7	1846.7	1820.8	1821.1	1929.0	1975.2	1244.5
45°	2066.9	2065.5	2084.2	2131.0	2075.9	1999.4	1962.5	1967.7	2047.0	2095.2	1291.6
47.5°	2047.0	2048.2	2098.4	2221.0	2253.6	2195.0	2129.5	2126.4	2161.3	2187.2	1333.1
50°	1869.3	1888.0	2023.9	2229.4	2370.2	2399.3	2325.5	2313.6	2261.4	2260.5	1358.5
52.5°	1735.1	1734.2	1817.6	2144.2	2411.4	2583.7	2517.3	2490.8	2344.2	2301.8	1360.5
55°	1553.9	1552.7	1614.7	1895.2	2329.5	2712.4	2698.3	2665.1	2420.1	2315.4	1346.7
57.5°	1176.7	1198.7	1260.4	1517.2	2069.8	2691.9	2871.1	2843.4	2494.3	2309.3	1344.1
60°	640.3	637.7	727.2	988.9	1584.7	2459.3	2946.4	2945.0	2573.0	2307.0	1360.0
62.5°	295.2	292.3	310.2	440.3	908.7	1970.2	2801.0	2821.8	2646.0	2285.9	1358.5
65°	220.7	213.2	189.0	204.9	347.7	1176.1	2379.1	2434.5	2533.5	2199.4	1295.6
67.5°	196.8	189.6	161.3	151.2	174.6	414.9	1725.8	1776.9	2118.6	2037.2	1193.7
70°	180.3	174.0	145.7	129.8	131.0	183.8	903.5	1003.9	1552.7	1700.2	1017.4
72.5°	164.5	159.0	133.3	114.3	110.2	121.5	307.9	371.4	965.8	1239.1	758.6
75°	147.7	142.5	120.0	102.4	94.6	90.0	146.6	157.8	510.7	684.2	407.1
77.5°	128.4	125.5	107.1	90.3	83.7	68.1	97.5	102.4	218.7	268.6	193.9
80°	111.7	109.4	95.5	81.9	75.0	52.5	67.2	70.7	107.9	134.2	108.5
82.5°	72.7	78.5	79.1	70.4	66.1	42.1	44.4	47.0	71.6	79.1	47.3
85°	30.0	36.4	54.5	48.5	45.9	35.8	29.4	30.0	43.9	46.2	17.0
87.5°	13.6	15.0	26.8	27.1	23.7	13.6	14.7	16.2	22.5	22.2	7.5
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°	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0	883.0
2.5°	882.1	868.8	845.2	814.9	793.2	777.4	760.1	747.4	733.2	720.8	722.8
5°	880.1	854.4	801.3	745.0	690.2	645.2	607.7	580.0	551.4	540.2	538.7
7.5°	881.8	838.2	751.1	659.1	575.7	518.2	474.7	448.4	432.0	422.4	423.0
10°	881.2	823.0	696.9	569.9	478.7	426.2	399.6	391.0	389.5	390.7	392.4
12.5°	882.1	802.2	636.0	489.7	409.2	382.3	383.5	391.3	396.2	399.4	401.4
15°	885.9	785.2	573.6	426.5	372.8	373.7	386.1	398.2	405.4	408.9	410.6
17.5°	891.3	763.8	518.2	378.6	357.5	370.8	387.0	399.9	405.4	407.4	408.9
20°	891.9	739.3	462.3	345.7	347.4	364.7	378.9	389.3	396.2	398.5	399.6
22.5°	889.3	706.1	404.8	321.7	335.9	353.2	365.3	377.1	367.9	360.4	358.4
25°	878.4	664.3	355.8	302.1	321.4	337.6	351.5	338.5	334.1	328.4	329.0
27.5°	854.7	612.0	309.6	283.6	304.4	327.5	317.4	315.7	310.2	304.4	304.4
30°	823.5	556.9	271.0	264.3	283.9	295.5	297.8	295.2	292.0	284.5	285.1
32.5°	795.5	498.6	243.5	248.2	271.0	271.0	281.1	281.1	269.5	248.4	248.4
35°	767.8	443.8	223.3	234.6	249.6	254.5	268.4	250.2	233.7	224.2	223.6
37.5°	746.2	397.1	210.1	223.1	228.8	241.2	241.5	228.2	222.8	214.1	213.2
40°	733.5	357.8	202.0	217.3	217.9	229.4	210.4	214.1	213.0	206.3	205.5
42.5°	726.6	327.5	195.9	212.4	209.5	198.2	194.8	201.1	203.1	199.7	198.2
45°	721.1	303.8	191.0	195.4	202.9	182.4	180.9	185.8	190.2	189.9	188.7
47.5°	718.2	287.4	186.7	184.7	186.1	172.8	170.0	172.3	177.7	181.2	180.9
50°	707.0	274.7	180.3	173.7	164.5	164.5	163.0	163.0	169.7	176.6	177.2
52.5°	687.0	259.7	171.1	163.3	152.6	157.3	157.8	156.7	163.6	171.1	171.7
55°	665.1	248.4	158.7	153.8	142.8	150.6	153.2	152.1	156.7	161.9	161.6
57.5°	665.4	248.2	148.0	144.3	133.6	142.3	148.6	148.9	148.6	152.4	152.4
60°	682.1	253.9	139.7	131.6	122.9	133.3	143.7	143.7	141.7	147.2	147.7
62.5°	687.0	253.4	134.5	119.5	113.4	125.2	136.5	138.2	136.8	144.6	145.4
65°	643.8	239.8	129.3	108.5	104.7	116.3	127.5	132.4	131.0	141.1	142.3
67.5°	583.7	222.2	121.2	98.7	95.8	107.6	118.3	123.5	123.2	136.5	137.1
70°	503.2	200.5	111.1	88.6	87.1	97.5	107.1	112.5	115.1	130.4	130.1
72.5°	389.8	172.0	95.8	77.9	77.6	87.1	95.5	101.6	106.5	121.2	121.2
75°	251.3	135.3	78.2	67.5	66.4	75.3	84.0	90.9	105.9	129.3	129.0
77.5°	153.5	103.3	62.9	56.3	56.0	64.1	72.7	84.5	115.7	115.1	112.0
80°	92.0	74.2	50.2	45.0	45.0	52.5	62.0	90.6	96.1	109.7	103.6
82.5°	47.9	45.6	37.5	33.2	34.6	41.3	56.6	72.4	78.5	66.7	61.2
85°	19.6	24.2	23.1	21.1	21.9	28.6	54.5	58.0	46.5	48.8	49.1
87.5°	6.6	10.7	10.7	8.4	9.2	20.2	32.3	19.3	23.4	13.9	10.4
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)