

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: P671936

Luminaire Tested: **CCP-SA-1D-727-U-AFL**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671936  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1D-727-U-AFL  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ AFL distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

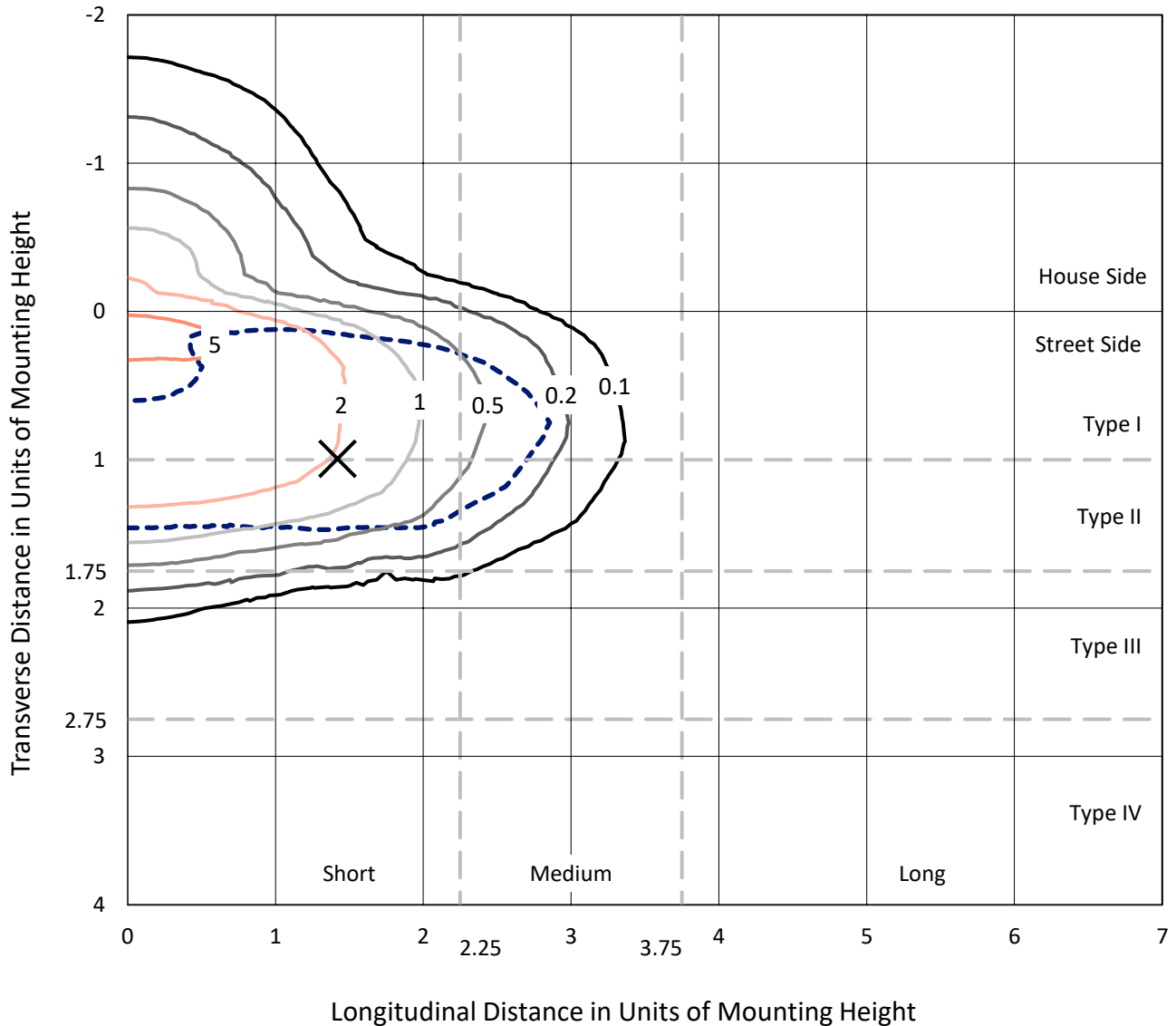
Lumens per Lamp: N/A  
Luminaire Lumens: 4706.7 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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

REPORT NUMBER: P671936  
 CATALOG NUMBER: CCP-SA-1D-727-U-AFL

### Iso-Footcandle Lines of Horizontal Illumination

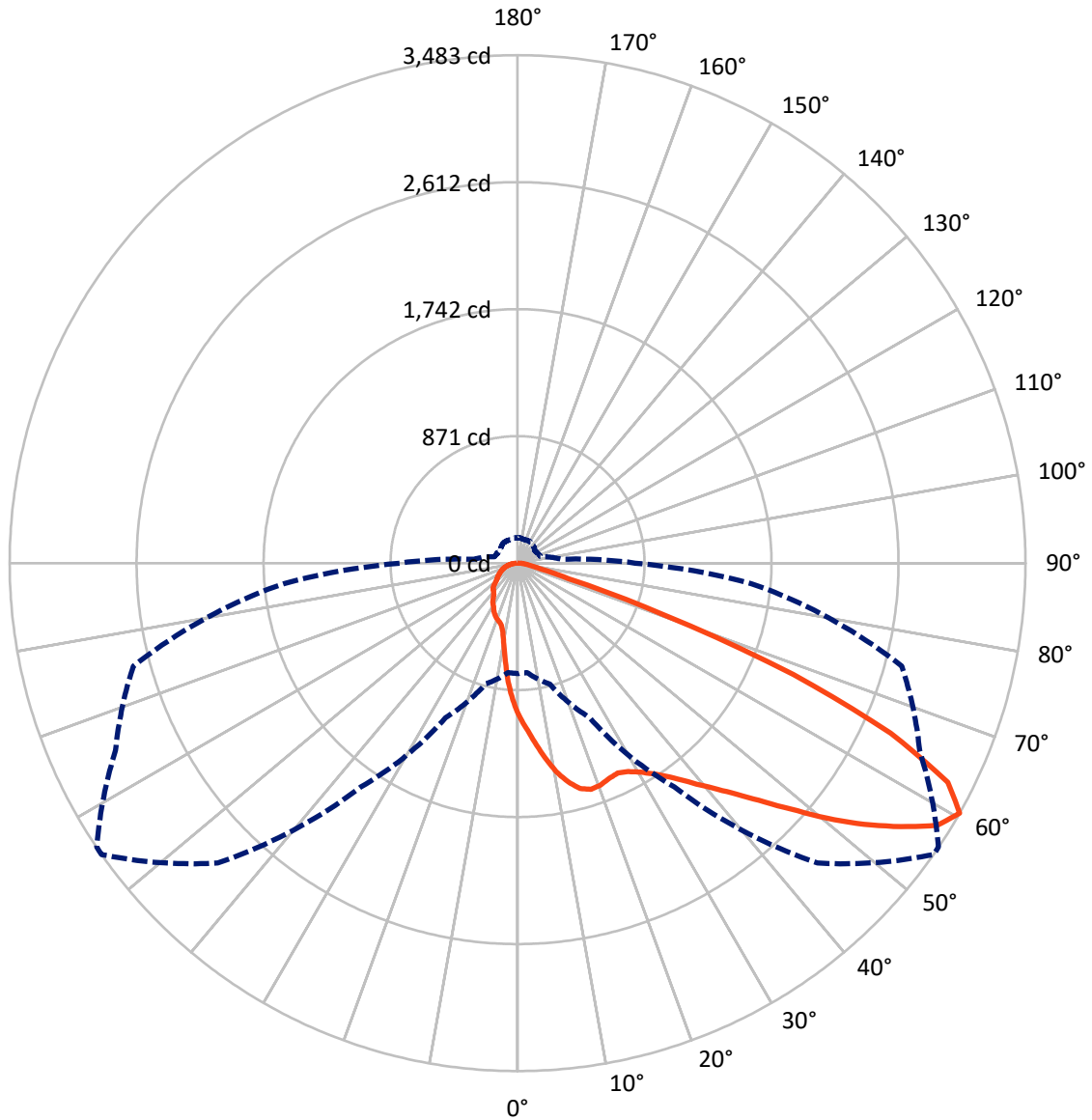
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.5 fc  
 Type II - Short - N/A

REPORT NUMBER: P671936  
CATALOG NUMBER: CCP-SA-1D-727-U-AFL

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P671936

CATALOG NUMBER: CCP-SA-1D-727-U-AFL

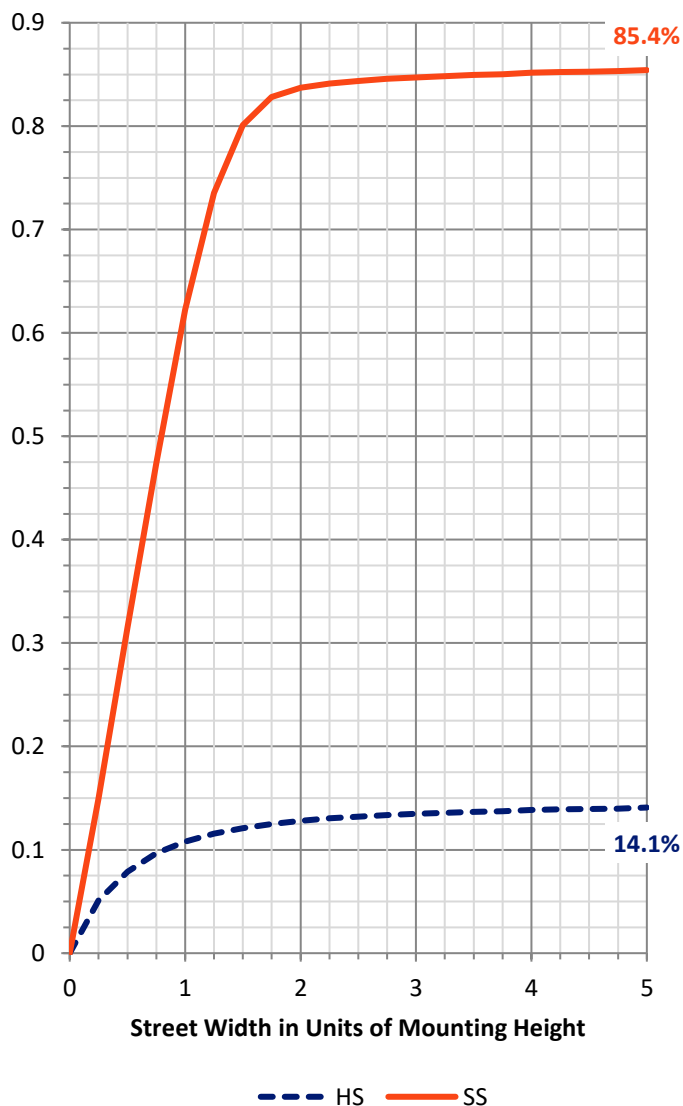
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	676.6	0.0	676.6
	% Fixture	14.4	0.0	14.4
<b>Street Side</b>	Lumens	4030.1	0.0	4030.1
	% Fixture	85.6	0.0	85.6
<b>Total</b>	Lumens	4706.7	0.0	4706.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	97.7	2.1
10°-20°	276.7	5.9
20°-30°	450.6	9.6
30°-40°	673.5	14.3
40°-50°	989.9	21.0
50°-60°	1160.2	24.6
60°-70°	765.0	16.3
70°-80°	243.6	5.2
80°-90°	49.5	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°	4706.7	100.0
0°-180°	4706.7	100.0



REPORT NUMBER: P671936

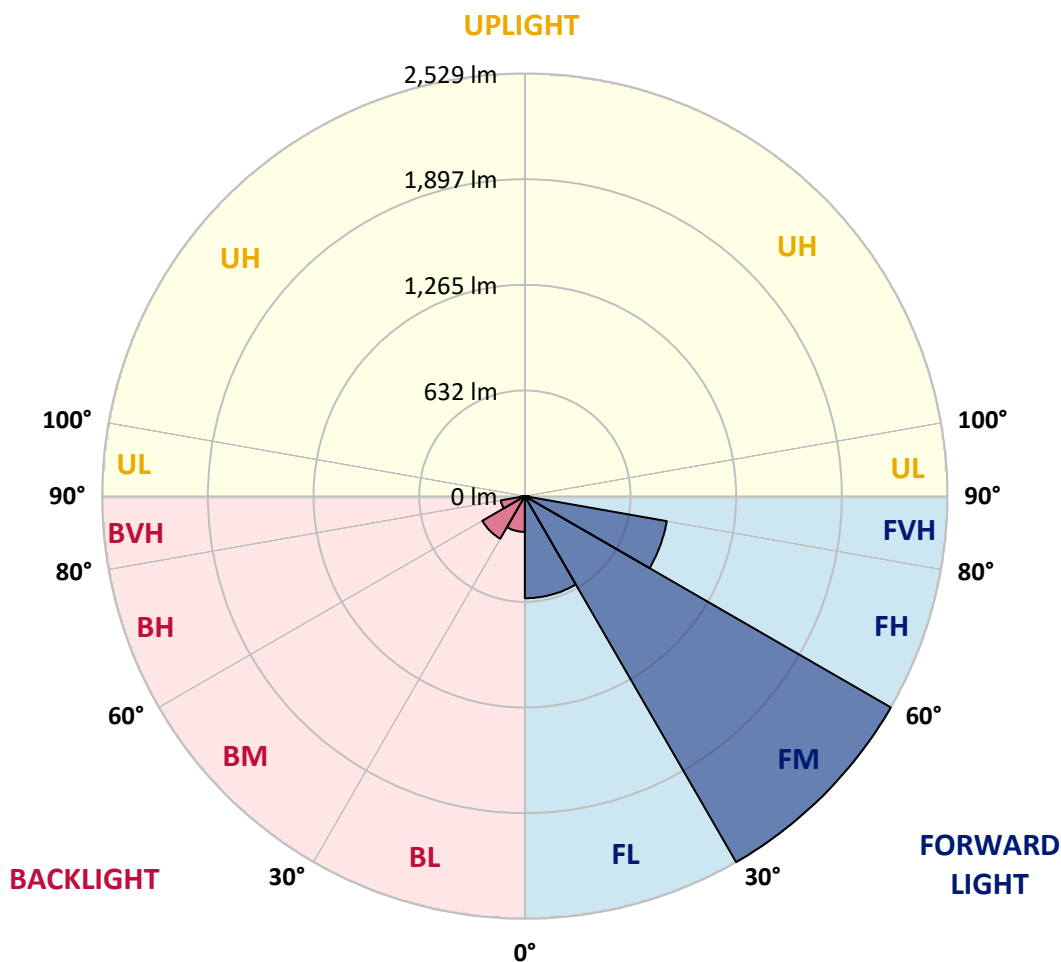
CATALOG NUMBER: CCP-SA-1D-727-U-AFL

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	610.9	13.0			
FM (30°-60°)	2529.5	53.7			
FH (60°-80°)	862.5	18.3			G1/1800
FVH (80°-90°)	27.2	0.6			G1/100
BL (0°-30°)	214.2	4.6	B1/500		
BM (30°-60°)	294.1	6.2	B1/1000		
BH (60°-80°)	146.0	3.1	B1/500		G1/500
BVH (80°-90°)	22.4	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





REPORT NUMBER: P671936  
 CATALOG NUMBER: CCP-SA-1D-727-U-AFL

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8
2.5°	1214.7	1210.3	1210.3	1199.0	1182.3	1159.1	1131.5	1124.7	1114.1	1087.1	1052.4
5°	1400.0	1395.2	1388.7	1368.9	1337.9	1291.5	1233.1	1222.6	1184.7	1129.1	1066.3
7.5°	1522.4	1519.7	1517.6	1500.6	1469.9	1424.2	1346.1	1334.1	1270.0	1177.9	1079.6
10°	1509.8	1518.0	1532.3	1544.2	1550.4	1526.9	1453.5	1439.5	1360.0	1234.5	1099.4
12.5°	1391.4	1403.0	1429.6	1478.4	1534.7	1580.1	1538.4	1530.6	1456.2	1294.5	1124.3
15°	1303.4	1308.2	1321.2	1357.3	1441.2	1562.3	1604.3	1597.1	1546.0	1371.6	1153.0
17.5°	1276.1	1278.2	1281.2	1293.2	1350.5	1493.1	1631.2	1638.1	1632.9	1451.8	1185.4
20°	1289.8	1291.1	1291.5	1293.5	1320.8	1435.1	1624.1	1635.7	1709.4	1532.0	1217.5
22.5°	1342.3	1340.6	1338.2	1330.4	1345.7	1424.9	1605.0	1623.4	1768.4	1605.0	1247.1
25°	1434.1	1431.7	1415.0	1398.6	1405.1	1461.7	1594.7	1614.5	1814.4	1673.9	1269.0
27.5°	1543.2	1540.8	1523.8	1492.7	1485.9	1523.1	1618.6	1630.9	1848.2	1734.9	1278.5
30°	1656.5	1656.5	1635.3	1599.5	1577.7	1593.4	1662.6	1672.5	1873.8	1793.9	1284.7
32.5°	1780.0	1783.4	1750.6	1709.7	1685.5	1676.3	1724.4	1732.9	1911.0	1863.5	1297.6
35°	1938.6	1931.1	1891.2	1837.3	1798.4	1777.6	1800.8	1810.7	1965.5	1950.2	1318.4
37.5°	2117.0	2103.7	2054.6	1990.1	1922.2	1887.4	1902.8	1905.2	2046.4	2063.1	1356.3
40°	2264.4	2262.0	2220.3	2159.3	2073.7	2026.9	2019.4	2020.8	2158.6	2196.8	1413.6
42.5°	2388.5	2379.7	2372.1	2350.7	2259.9	2183.2	2152.5	2152.8	2280.4	2335.0	1471.2
45°	2443.4	2441.7	2463.9	2519.2	2454.0	2363.6	2320.0	2326.1	2419.9	2476.9	1526.9
47.5°	2419.9	2421.3	2480.6	2625.6	2664.1	2594.9	2517.5	2513.7	2555.0	2585.7	1576.0
50°	2209.8	2231.9	2392.6	2635.5	2802.0	2836.4	2749.1	2735.1	2673.4	2672.3	1606.0
52.5°	2051.2	2050.1	2148.7	2534.9	2850.7	3054.4	2975.9	2944.5	2771.3	2721.1	1608.4
55°	1836.9	1835.6	1908.9	2240.5	2753.9	3206.5	3189.8	3150.6	2861.0	2737.1	1592.0
57.5°	1391.1	1417.0	1490.0	1793.6	2446.9	3182.3	3394.1	3361.4	2948.6	2730.0	1588.9
60°	756.9	753.9	859.6	1169.0	1873.4	2907.4	3483.2	3481.5	3041.8	2727.3	1607.7
62.5°	349.0	345.6	366.7	520.5	1074.2	2329.2	3311.2	3335.8	3128.1	2702.4	1606.0
65°	261.0	252.1	223.4	242.2	411.0	1390.4	2812.5	2878.0	2995.0	2600.0	1531.6
67.5°	232.6	224.1	190.7	178.7	206.4	490.5	2040.2	2100.6	2504.5	2408.3	1411.2
70°	213.2	205.7	172.3	153.5	154.9	217.3	1068.0	1186.8	1835.6	2009.9	1202.8
72.5°	194.4	188.0	157.6	135.1	130.3	143.6	364.0	439.0	1141.7	1464.8	896.8
75°	174.7	168.5	141.9	121.1	111.9	106.4	173.3	186.6	603.8	808.8	481.3
77.5°	151.8	148.4	126.6	106.8	98.9	80.5	115.3	121.1	258.6	317.6	229.2
80°	132.0	129.3	112.9	96.9	88.7	62.1	79.5	83.6	127.6	158.6	128.3
82.5°	86.0	92.8	93.5	83.2	78.1	49.8	52.5	55.6	84.6	93.5	55.9
85°	35.5	43.0	64.5	57.3	54.2	42.3	34.8	35.5	51.9	54.6	20.1
87.5°	16.0	17.7	31.7	32.1	28.0	16.0	17.4	19.1	26.6	26.3	8.9
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: P671936  
 CATALOG NUMBER: CCP-SA-1D-727-U-AFL

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8	1043.8
2.5°	1042.8	1027.1	999.1	963.3	937.7	919.0	898.5	883.5	866.8	852.1	854.5
5°	1040.4	1010.1	947.3	880.8	816.0	762.7	718.4	685.7	651.9	638.6	636.9
7.5°	1042.5	991.0	887.9	779.1	680.5	612.7	561.1	530.1	510.7	499.4	500.1
10°	1041.8	972.9	823.8	673.7	565.9	503.8	472.5	462.2	460.5	461.9	463.9
12.5°	1042.8	948.3	751.8	578.9	483.7	452.0	453.3	462.6	468.4	472.1	474.5
15°	1047.2	928.2	678.1	504.2	440.7	441.7	456.4	470.7	479.3	483.4	485.4
17.5°	1053.7	902.9	612.7	447.5	422.6	438.3	457.4	472.8	479.3	481.7	483.4
20°	1054.4	873.9	546.5	408.7	410.7	431.2	447.9	460.2	468.4	471.1	472.5
22.5°	1051.3	834.7	478.6	380.3	397.1	417.5	431.9	445.8	434.9	426.1	423.7
25°	1038.4	785.3	420.6	357.2	380.0	399.1	415.5	400.1	395.0	388.2	388.9
27.5°	1010.4	723.5	366.0	335.3	359.9	387.2	375.2	373.2	366.7	359.9	359.9
30°	973.6	658.4	320.3	312.5	335.7	349.3	352.0	349.0	345.2	336.3	337.0
32.5°	940.5	589.5	287.9	293.4	320.3	320.3	332.3	332.3	318.6	293.7	293.7
35°	907.7	524.6	264.0	277.3	295.1	300.9	317.2	295.8	276.3	265.0	264.4
37.5°	882.1	469.4	248.3	263.7	270.5	285.2	285.5	269.8	263.3	253.1	252.1
40°	867.1	423.0	238.8	256.9	257.5	271.2	248.7	253.1	251.7	243.9	242.9
42.5°	858.9	387.2	231.6	251.1	247.7	234.3	230.3	237.8	240.1	236.1	234.3
45°	852.5	359.2	225.8	230.9	239.8	215.6	213.9	219.7	224.8	224.5	223.1
47.5°	849.0	339.8	220.7	218.3	220.0	204.3	200.9	203.6	210.1	214.2	213.9
50°	835.7	324.7	213.2	205.4	194.4	194.4	192.7	192.7	200.6	208.8	209.4
52.5°	812.2	307.0	202.3	193.1	180.5	185.9	186.6	185.2	193.4	202.3	203.0
55°	786.3	293.7	187.6	181.8	168.9	178.1	181.1	179.8	185.2	191.4	191.0
57.5°	786.6	293.4	175.0	170.6	157.9	168.2	175.7	176.0	175.7	180.1	180.1
60°	806.4	300.2	165.1	155.6	145.3	157.6	169.9	169.9	167.5	174.0	174.7
62.5°	812.2	299.5	159.0	141.2	134.1	148.0	161.3	163.4	161.7	170.9	171.9
65°	761.0	283.5	152.8	128.3	123.8	137.5	150.8	156.6	154.9	166.8	168.2
67.5°	690.1	262.7	143.3	116.7	113.3	127.2	139.9	146.0	145.7	161.3	162.0
70°	594.9	237.1	131.3	104.7	103.0	115.3	126.6	133.0	136.1	154.2	153.8
72.5°	460.9	203.3	113.3	92.1	91.8	103.0	112.9	120.1	125.9	143.3	143.3
75°	297.1	160.0	92.4	79.8	78.5	89.0	99.3	107.5	125.2	152.8	152.5
77.5°	181.5	122.1	74.4	66.5	66.2	75.7	86.0	99.9	136.8	136.1	132.4
80°	108.8	87.7	59.4	53.2	53.2	62.1	73.3	107.1	113.6	129.6	122.5
82.5°	56.6	53.9	44.3	39.2	40.9	48.8	66.9	85.6	92.8	78.8	72.3
85°	23.2	28.7	27.3	24.9	25.9	33.8	64.5	68.6	54.9	57.6	58.0
87.5°	7.8	12.6	12.6	9.9	10.9	23.9	38.2	22.9	27.6	16.4	12.3
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)