

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: P672038

Luminaire Tested: **CCP-SA-2A-840-U-AFL**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672038
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-840-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ AFL distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

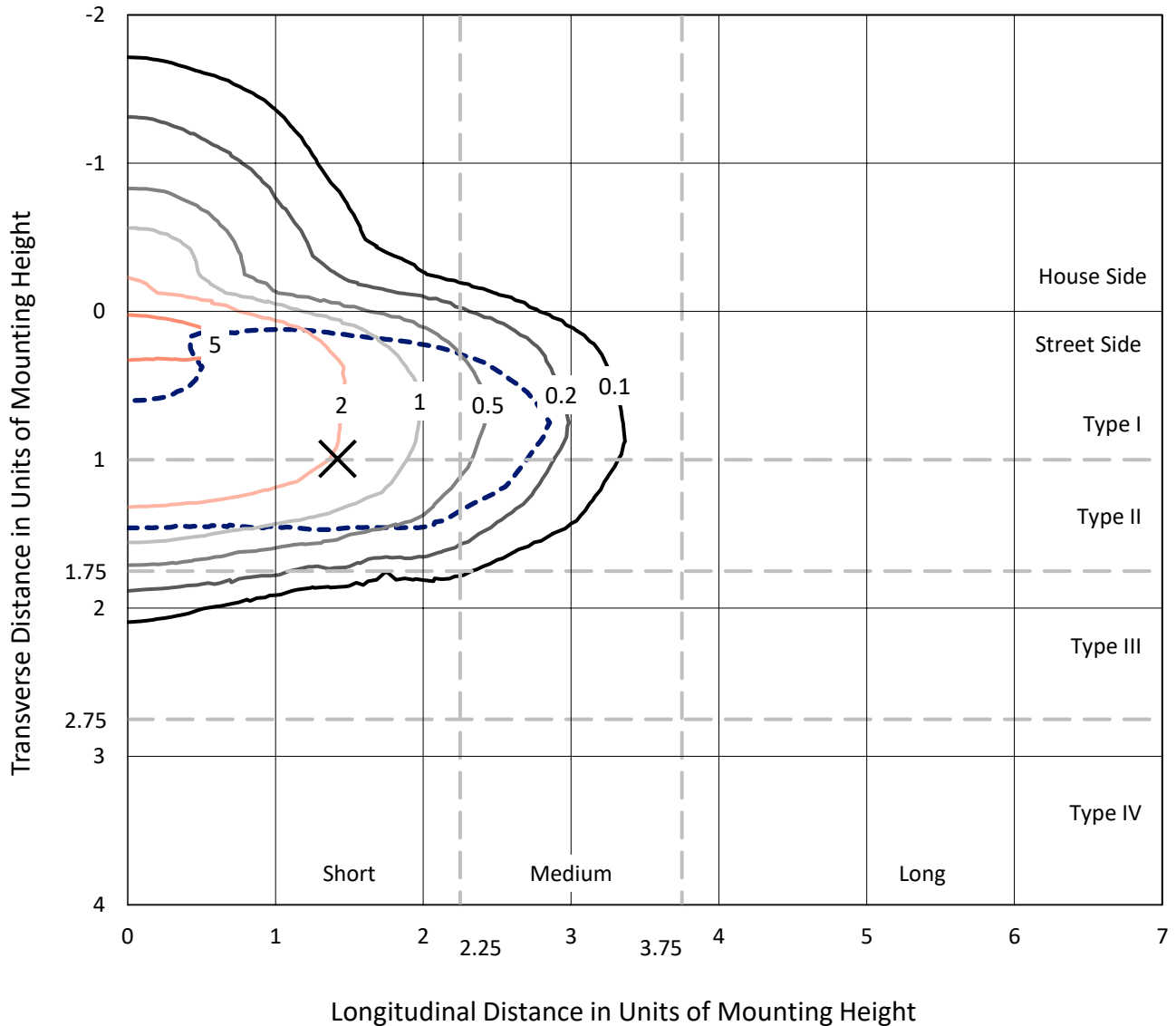
Lumens per Lamp: N/A
Luminaire Lumens: 4707.8 lumens
Efficiency: N/A
Efficacy: 130.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

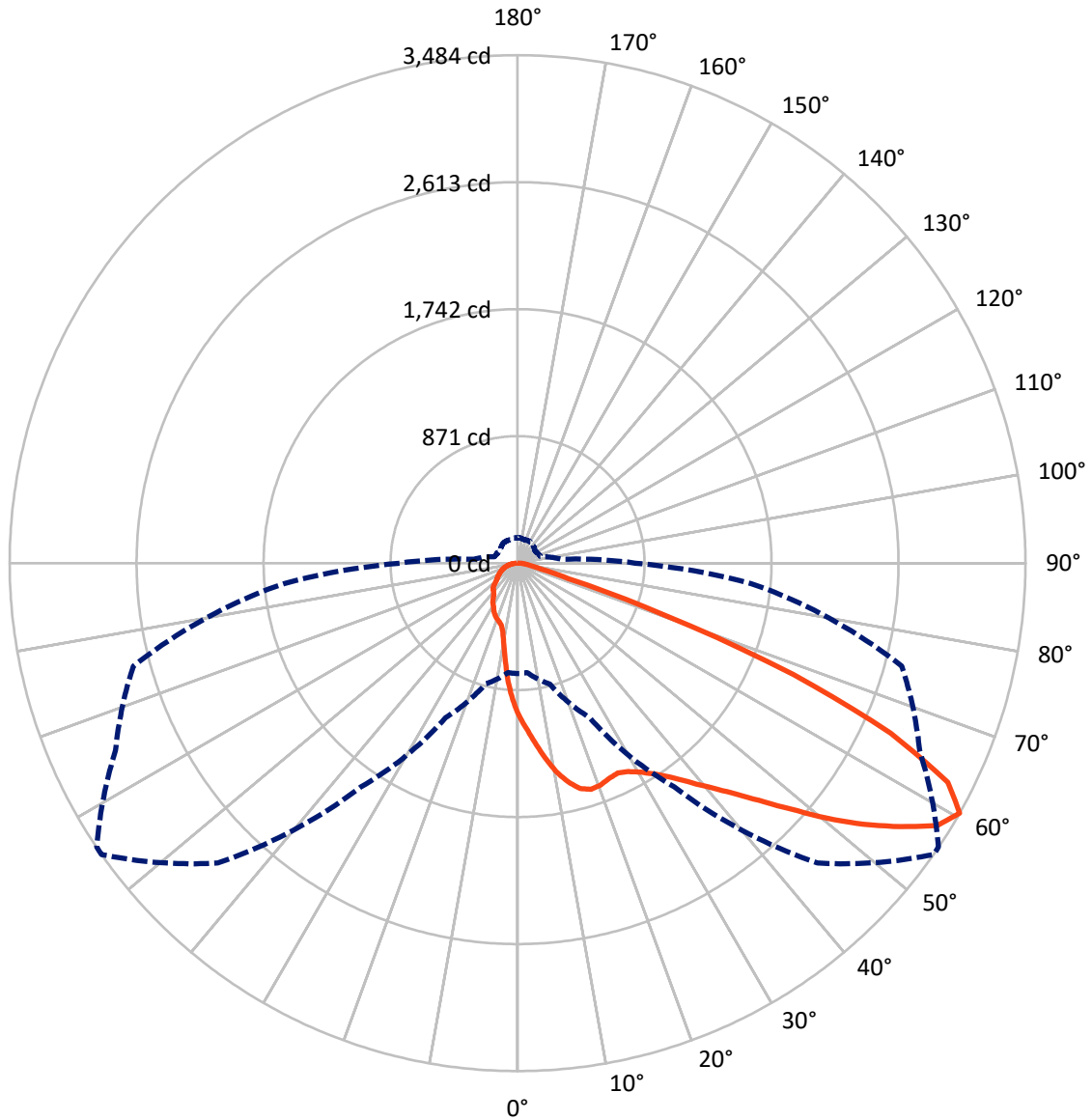
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.5 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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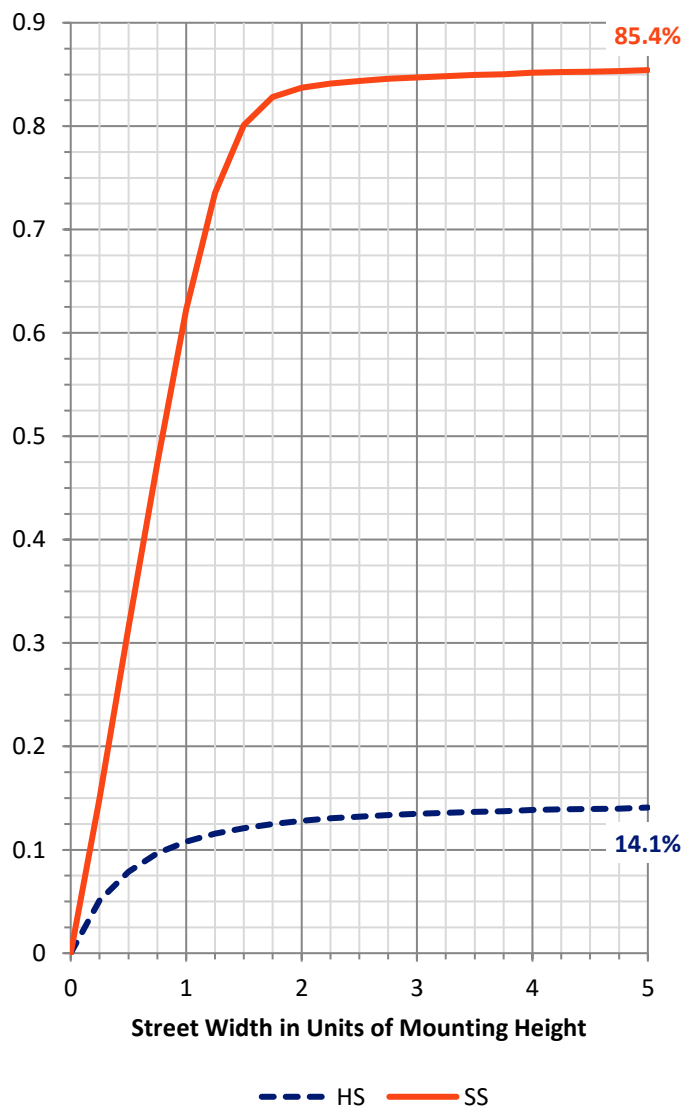
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	676.8	0.0	676.8
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	4031.0	0.0	4031.0
	% Fixture	85.6	0.0	85.6
Total	Lumens	4707.8	0.0	4707.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.7	2.1
10°-20°	276.8	5.9
20°-30°	450.7	9.6
30°-40°	673.7	14.3
40°-50°	990.1	21.0
50°-60°	1160.5	24.6
60°-70°	765.1	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°	4707.8	100.0
0°-180°	4707.8	100.0



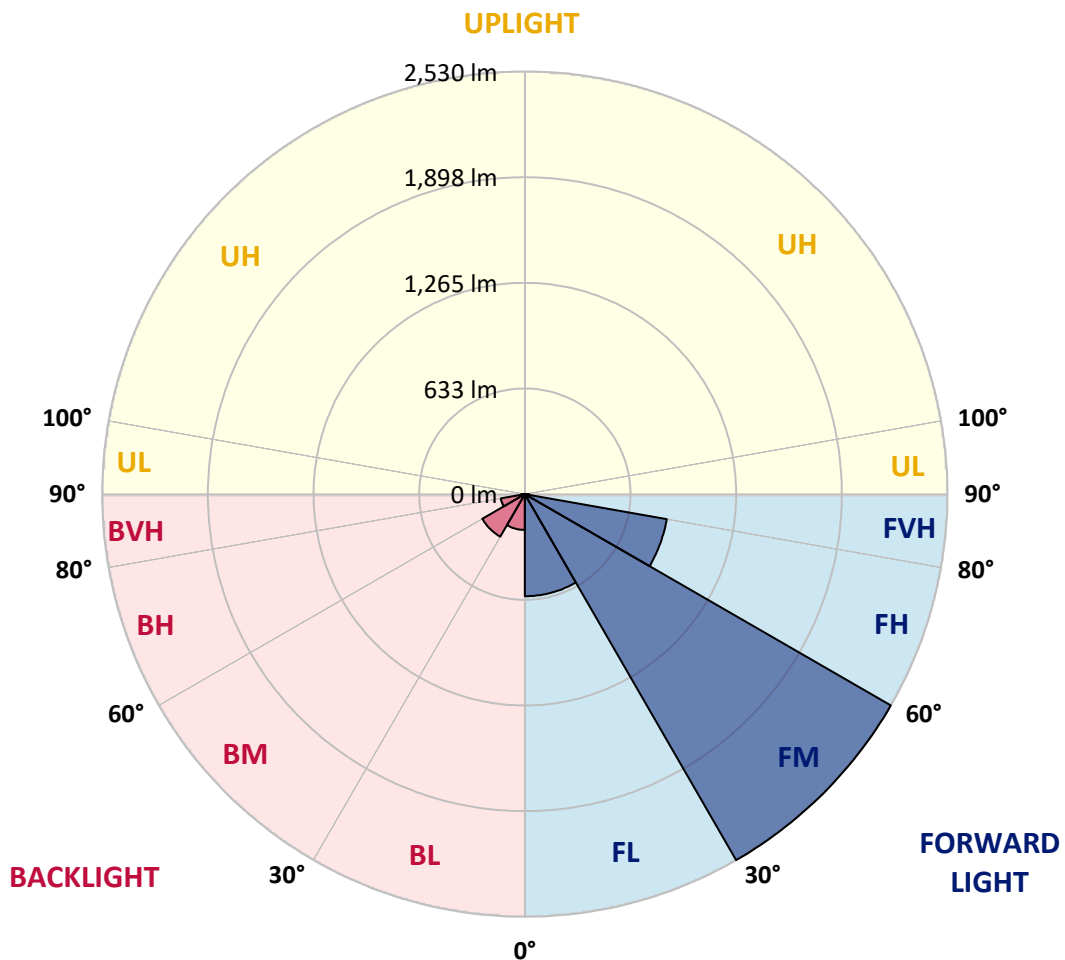
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	611.0	13.0			
FM (30°-60°)	2530.1	53.7			
FH (60°-80°)	862.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1
2.5°	1215.0	1210.6	1210.6	1199.3	1182.6	1159.4	1131.8	1125.0	1114.4	1087.4	1052.6
5°	1400.3	1395.5	1389.0	1369.3	1338.2	1291.8	1233.5	1222.9	1185.0	1129.4	1066.6
7.5°	1522.8	1520.1	1518.0	1501.0	1470.2	1424.5	1346.4	1334.4	1270.3	1178.2	1079.9
10°	1510.2	1518.4	1532.7	1544.6	1550.8	1527.2	1453.9	1439.9	1360.4	1234.8	1099.7
12.5°	1391.8	1403.4	1430.0	1478.8	1535.1	1580.5	1538.8	1531.0	1456.6	1294.9	1124.6
15°	1303.7	1308.5	1321.5	1357.7	1441.6	1562.7	1604.7	1597.5	1546.3	1372.0	1153.3
17.5°	1276.4	1278.5	1281.6	1293.5	1350.8	1493.5	1631.6	1638.5	1633.3	1452.2	1185.7
20°	1290.1	1291.5	1291.8	1293.8	1321.1	1435.4	1624.5	1636.1	1709.8	1532.3	1217.8
22.5°	1342.6	1340.9	1338.5	1330.7	1346.1	1425.2	1605.4	1623.8	1768.8	1605.4	1247.4
25°	1434.4	1432.0	1415.3	1398.9	1405.4	1462.1	1595.1	1614.9	1814.9	1674.3	1269.3
27.5°	1543.6	1541.2	1524.2	1493.1	1486.3	1523.5	1619.0	1631.3	1848.6	1735.4	1278.8
30°	1656.9	1656.9	1635.7	1599.9	1578.1	1593.8	1663.0	1672.9	1874.2	1794.4	1285.0
32.5°	1780.4	1783.8	1751.1	1710.1	1685.9	1676.7	1724.8	1733.3	1911.4	1864.0	1297.9
35°	1939.1	1931.6	1891.6	1837.7	1798.8	1778.0	1801.2	1811.1	1966.0	1950.7	1318.8
37.5°	2117.5	2104.2	2055.1	1990.6	1922.7	1887.9	1903.2	1905.6	2046.9	2063.6	1356.6
40°	2264.9	2262.5	2220.9	2159.8	2074.2	2027.4	2019.9	2021.3	2159.1	2197.4	1414.0
42.5°	2389.1	2380.2	2372.7	2351.2	2260.5	2183.7	2153.0	2153.3	2281.0	2335.5	1471.6
45°	2444.0	2442.3	2464.5	2519.8	2454.6	2364.2	2320.5	2326.7	2420.5	2477.5	1527.2
47.5°	2420.5	2421.9	2481.2	2626.2	2664.8	2595.5	2518.1	2514.3	2555.6	2586.3	1576.4
50°	2210.3	2232.5	2393.2	2636.1	2802.7	2837.1	2749.8	2735.8	2674.0	2673.0	1606.4
52.5°	2051.7	2050.6	2149.2	2535.5	2851.4	3055.1	2976.7	2945.3	2771.9	2721.8	1608.8
55°	1837.4	1836.0	1909.4	2241.0	2754.5	3207.3	3190.6	3151.4	2861.7	2737.8	1592.4
57.5°	1391.4	1417.4	1490.4	1794.1	2447.5	3183.1	3395.0	3362.2	2949.4	2730.7	1589.3
60°	757.1	754.1	859.8	1169.3	1873.9	2908.1	3484.0	3482.3	3042.5	2727.9	1608.1
62.5°	349.1	345.6	366.8	520.7	1074.5	2329.7	3312.1	3336.6	3128.8	2703.0	1606.4
65°	261.0	252.1	223.5	242.3	411.2	1390.7	2813.2	2878.7	2995.8	2600.7	1532.0
67.5°	232.7	224.2	190.7	178.8	206.4	490.7	2040.7	2101.1	2505.1	2408.9	1411.6
70°	213.3	205.7	172.3	153.5	154.9	217.3	1068.3	1187.0	1836.0	2010.4	1203.1
72.5°	194.5	188.0	157.6	135.1	130.3	143.6	364.1	439.1	1142.0	1465.1	897.0
75°	174.7	168.6	141.9	121.1	111.9	106.5	173.3	186.6	603.9	809.0	481.4
77.5°	151.8	148.4	126.6	106.8	98.9	80.5	115.3	121.1	258.6	317.7	229.3
80°	132.0	129.3	112.9	96.9	88.7	62.1	79.5	83.6	127.6	158.7	128.3
82.5°	86.0	92.8	93.5	83.3	78.1	49.8	52.5	55.6	84.6	93.5	56.0
85°	35.5	43.0	64.5	57.3	54.3	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1	1044.1
2.5°	1043.1	1027.4	999.4	963.6	938.0	919.2	898.7	883.7	867.0	852.3	854.7
5°	1040.7	1010.3	947.5	881.0	816.2	762.9	718.6	685.8	652.0	638.7	637.0
7.5°	1042.7	991.2	888.2	779.3	680.7	612.8	561.3	530.2	510.8	499.5	500.2
10°	1042.0	973.1	824.0	673.9	566.1	504.0	472.6	462.3	460.6	462.0	464.0
12.5°	1043.1	948.5	752.0	579.0	483.8	452.1	453.5	462.7	468.5	472.2	474.6
15°	1047.5	928.4	678.3	504.3	440.8	441.9	456.5	470.9	479.4	483.5	485.5
17.5°	1054.0	903.2	612.8	447.7	422.8	438.4	457.6	472.9	479.4	481.8	483.5
20°	1054.7	874.2	546.6	408.8	410.8	431.3	448.0	460.3	468.5	471.2	472.6
22.5°	1051.6	834.9	478.7	380.4	397.2	417.6	432.0	446.0	435.0	426.2	423.8
25°	1038.6	785.5	420.7	357.2	380.1	399.2	415.6	400.2	395.1	388.3	389.0
27.5°	1010.6	723.7	366.1	335.4	360.0	387.3	375.3	373.3	366.8	360.0	360.0
30°	973.8	658.5	320.4	312.5	335.7	349.4	352.1	349.1	345.3	336.4	337.1
32.5°	940.7	589.6	288.0	293.4	320.4	320.4	332.3	332.3	318.7	293.8	293.8
35°	907.9	524.8	264.1	277.4	295.1	300.9	317.3	295.8	276.4	265.1	264.4
37.5°	882.4	469.5	248.4	263.8	270.6	285.2	285.6	269.9	263.4	253.2	252.1
40°	867.3	423.1	238.8	256.9	257.6	271.3	248.7	253.2	251.8	244.0	242.9
42.5°	859.2	387.3	231.7	251.1	247.7	234.4	230.3	237.8	240.2	236.1	234.4
45°	852.7	359.3	225.9	231.0	239.9	215.6	213.9	219.7	224.9	224.5	223.1
47.5°	849.3	339.8	220.8	218.4	220.1	204.4	201.0	203.7	210.2	214.3	213.9
50°	836.0	324.8	213.3	205.4	194.5	194.5	192.8	192.8	200.6	208.8	209.5
52.5°	812.4	307.1	202.3	193.1	180.5	186.0	186.6	185.3	193.5	202.3	203.0
55°	786.5	293.8	187.7	181.9	168.9	178.1	181.2	179.8	185.3	191.4	191.1
57.5°	786.8	293.4	175.0	170.6	158.0	168.2	175.7	176.1	175.7	180.2	180.2
60°	806.6	300.3	165.1	155.6	145.4	157.6	169.9	169.9	167.5	174.0	174.7
62.5°	812.4	299.6	159.0	141.3	134.1	148.1	161.4	163.4	161.7	170.9	172.0
65°	761.2	283.5	152.9	128.3	123.9	137.5	150.8	156.6	154.9	166.8	168.2
67.5°	690.3	262.7	143.3	116.7	113.3	127.3	139.9	146.0	145.7	161.4	162.1
70°	595.1	237.1	131.4	104.7	103.0	115.3	126.6	133.1	136.1	154.2	153.9
72.5°	461.0	203.4	113.3	92.1	91.8	103.0	112.9	120.1	125.9	143.3	143.3
75°	297.2	160.0	92.5	79.8	78.5	89.1	99.3	107.5	125.2	152.9	152.5
77.5°	181.5	122.2	74.4	66.5	66.2	75.7	86.0	100.0	136.8	136.1	132.4
80°	108.8	87.7	59.4	53.2	53.2	62.1	73.4	107.1	113.6	129.7	122.5
82.5°	56.6	53.9	44.4	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	57.7	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)