

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: P674409

Luminaire Tested: **CCP-SA-2A-735-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674409
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-735-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @350mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

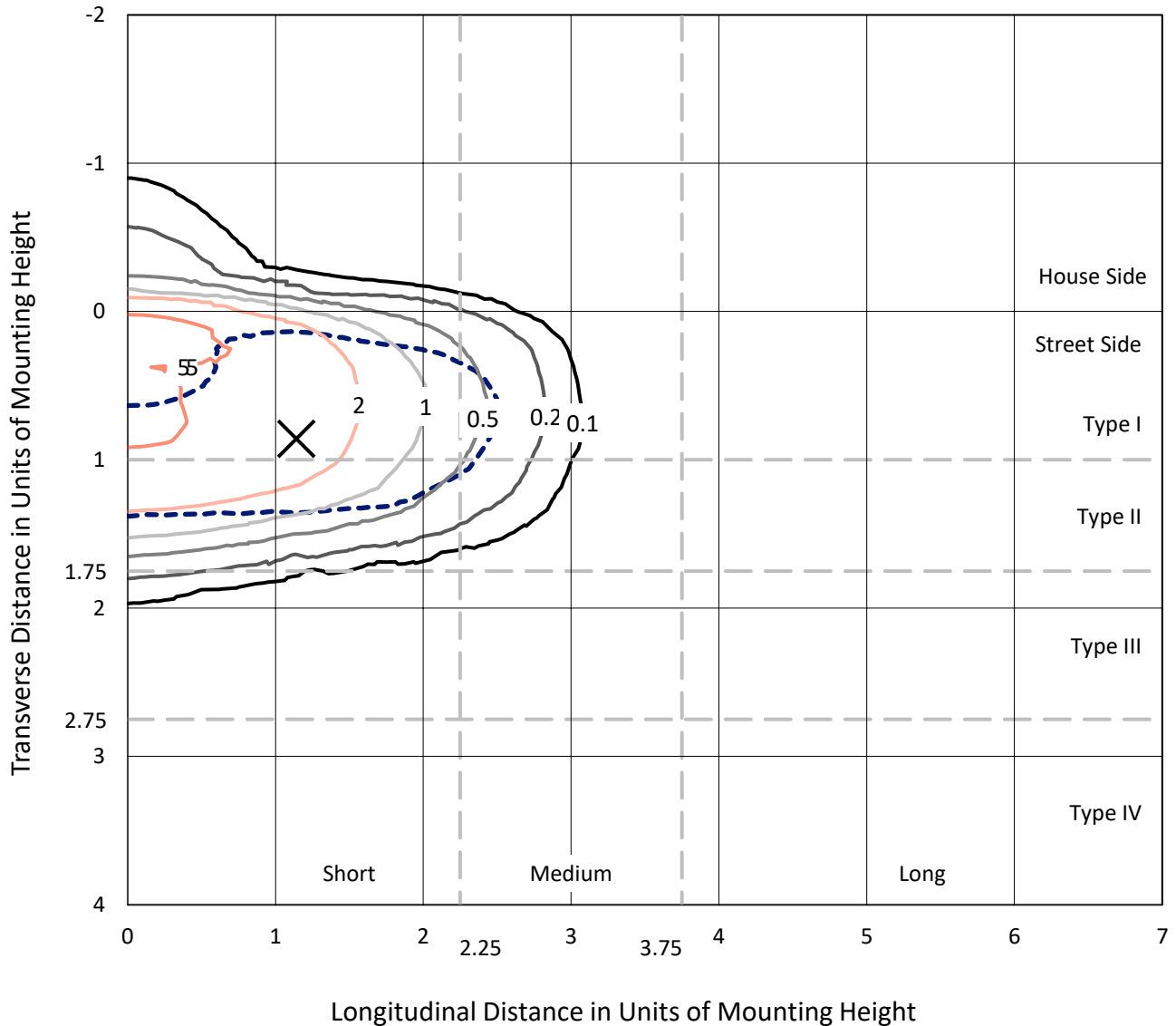
Lumens per Lamp: N/A
Luminaire Lumens: 4475.2 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

REPORT NUMBER: P674409
 CATALOG NUMBER: CCP-SA-2A-735-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

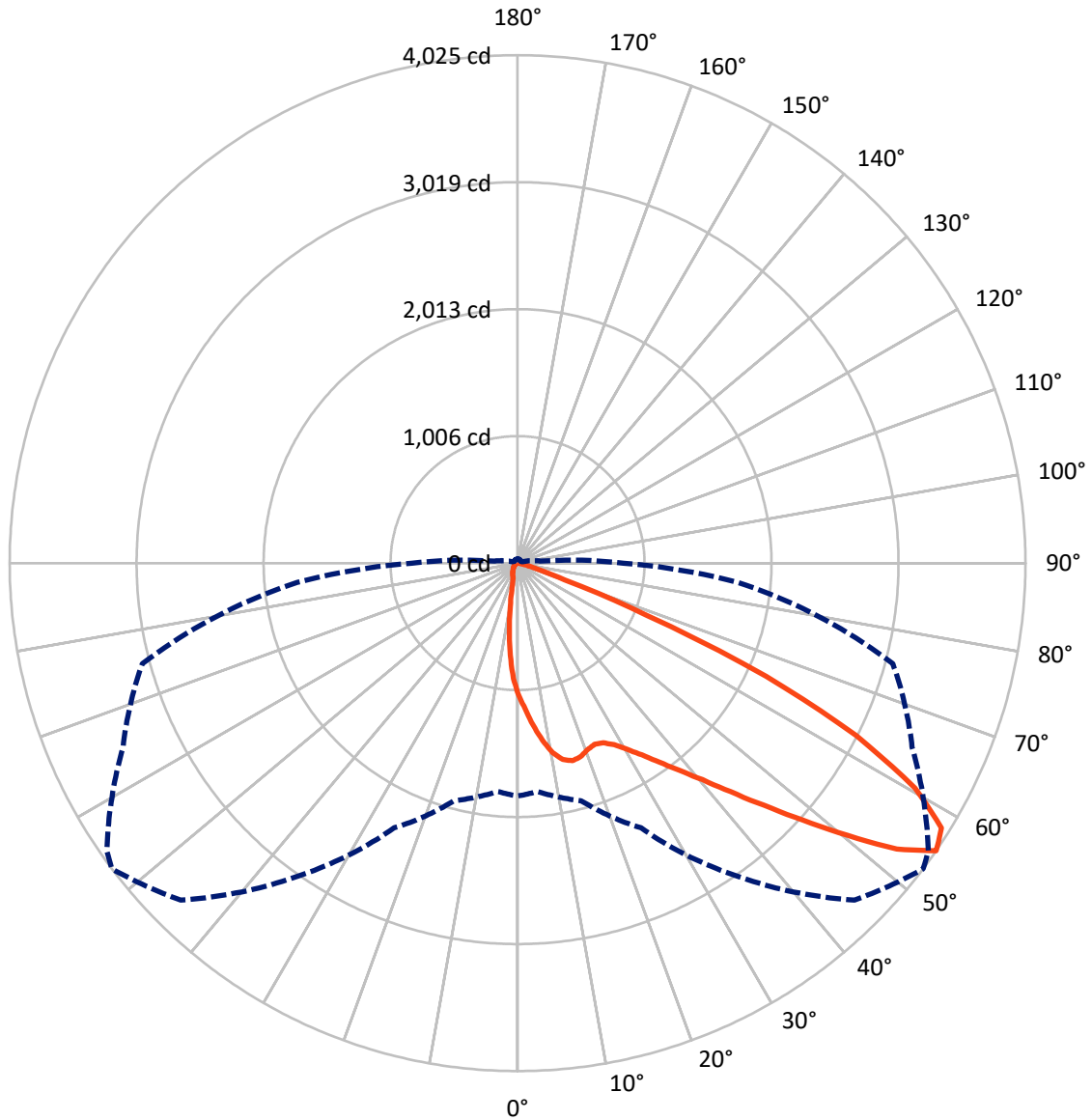
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.8 fc
 Type II - Short - N/A

REPORT NUMBER: P674409
CATALOG NUMBER: CCP-SA-2A-735-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P674409
 CATALOG NUMBER: CCP-SA-2A-735-U-AFL-HSS

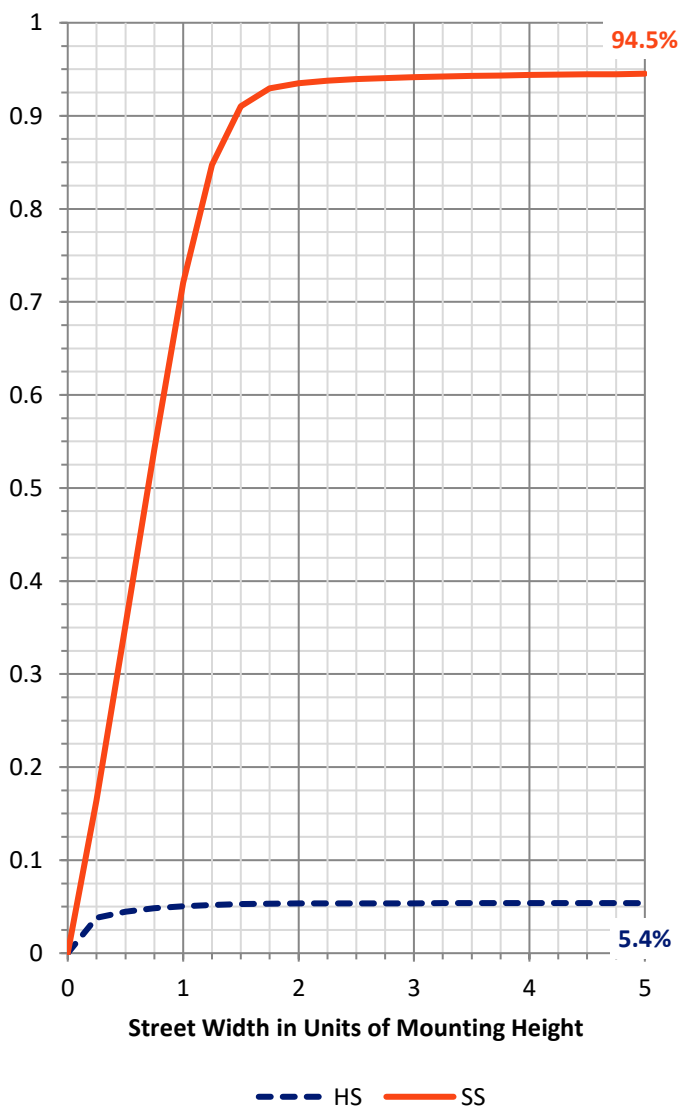
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	241.9	0.0	241.9
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	4233.3	0.0	4233.3
	% Fixture	94.6	0.0	94.6
Total	Lumens	4475.2	0.0	4475.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.6	2.1
10°-20°	244.7	5.5
20°-30°	409.5	9.2
30°-40°	670.0	15.0
40°-50°	1076.9	24.1
50°-60°	1215.9	27.2
60°-70°	648.6	14.5
70°-80°	106.6	2.4
80°-90°	9.5	0.2
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°	4475.2	100.0
0°-180°	4475.2	100.0



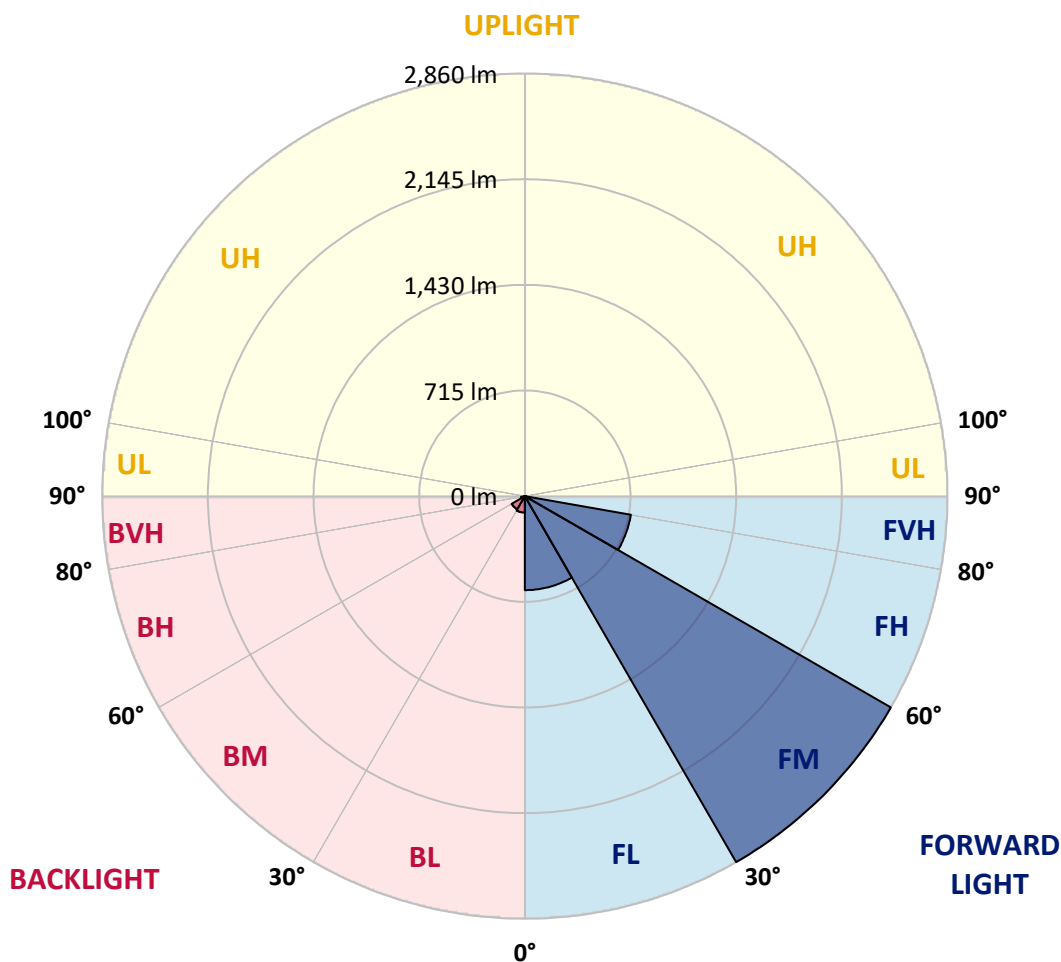
REPORT NUMBER: P674409
 CATALOG NUMBER: CCP-SA-2A-735-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	636.2	14.2			
FM (30°-60°)	2859.7	63.9			
FH (60°-80°)	728.7	16.3			G1/1800
FVH (80°-90°)	8.8	0.2			G0/10
BL (0°-30°)	111.6	2.5	B1/500		
BM (30°-60°)	103.1	2.3	B0/220		
BH (60°-80°)	26.4	0.6	B0/110		G0/110
BVH (80°-90°)	0.8	0.0			G0/10
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: P674409

CATALOG NUMBER: CCP-SA-2A-735-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3
2.5°	1255.9	1248.5	1252.8	1241.4	1220.6	1194.7	1155.9	1157.9	1127.3	1100.6	1063.8
5°	1463.3	1455.5	1453.1	1424.1	1395.1	1348.4	1290.8	1281.4	1225.3	1157.5	1080.2
7.5°	1572.7	1566.1	1571.2	1560.6	1531.9	1489.6	1416.7	1409.6	1323.0	1220.2	1106.5
10°	1522.5	1520.2	1541.8	1566.8	1590.0	1584.9	1526.5	1515.5	1418.2	1289.2	1133.6
12.5°	1387.7	1395.1	1422.6	1468.8	1540.2	1607.2	1597.8	1599.8	1515.5	1364.1	1163.4
15°	1308.4	1317.5	1333.2	1357.1	1444.9	1564.1	1624.9	1644.5	1608.8	1447.6	1198.7
17.5°	1301.8	1309.2	1311.6	1320.6	1372.0	1494.7	1613.9	1651.1	1691.9	1526.5	1238.3
20°	1353.1	1356.3	1354.3	1347.7	1366.1	1457.1	1579.4	1632.7	1760.5	1610.4	1273.2
22.5°	1450.0	1445.3	1439.4	1414.7	1413.5	1467.6	1560.6	1616.2	1801.3	1679.8	1296.3
25°	1570.0	1560.2	1551.9	1517.0	1500.6	1522.9	1577.4	1622.1	1838.2	1747.2	1312.8
27.5°	1700.9	1704.1	1683.7	1636.6	1610.8	1606.1	1629.6	1662.9	1873.9	1807.6	1321.8
30°	1840.9	1842.5	1815.8	1767.2	1743.7	1713.5	1711.9	1731.9	1912.3	1877.0	1330.4
32.5°	2000.5	2004.8	1961.3	1910.7	1869.5	1830.3	1811.1	1828.0	1981.3	1967.6	1348.1
35°	2231.1	2212.2	2153.4	2077.0	2018.5	1967.2	1937.8	1948.8	2073.1	2076.2	1383.3
37.5°	2468.7	2466.7	2401.6	2291.5	2195.8	2131.9	2081.7	2099.7	2202.1	2221.7	1439.8
40°	2690.2	2695.3	2638.9	2542.8	2419.7	2309.9	2256.2	2268.3	2373.4	2398.1	1508.4
42.5°	2834.9	2832.2	2836.5	2809.0	2685.5	2556.1	2475.3	2482.0	2572.6	2585.5	1594.3
45°	2901.6	2891.0	2927.8	3014.9	2965.9	2829.8	2737.7	2729.4	2779.2	2775.7	1672.3
47.5°	2843.9	2824.3	2909.0	3118.8	3213.7	3172.5	3040.8	3025.9	2983.5	2955.3	1753.5
50°	2557.3	2548.7	2729.8	3069.4	3369.3	3489.3	3392.5	3337.2	3165.8	3087.8	1796.2
52.5°	2284.8	2260.9	2383.2	2817.3	3299.9	3744.2	3764.2	3665.8	3317.2	3125.8	1781.7
55°	1845.6	1816.2	1949.5	2314.6	3025.1	3776.7	4025.3	3974.0	3449.7	3078.8	1752.3
57.5°	1121.0	1092.0	1288.1	1657.8	2419.3	3506.2	3961.0	4013.2	3551.7	3027.0	1733.1
60°	471.3	452.9	529.7	791.3	1544.9	2881.6	3619.9	3750.1	3570.9	2956.1	1740.9
62.5°	245.1	236.8	241.1	316.8	624.6	1897.4	3012.9	3239.6	3377.2	2924.7	1748.8
65°	183.9	177.6	163.9	174.1	242.7	820.3	2165.2	2468.7	2957.2	2845.1	1695.8
67.5°	151.0	145.1	135.3	132.1	143.1	284.7	1105.3	1499.8	2317.3	2505.9	1506.1
70°	120.4	118.4	115.3	109.4	107.4	138.0	396.4	611.3	1532.3	1767.2	1091.6
72.5°	100.4	100.8	97.2	92.1	85.1	89.0	158.0	209.0	741.5	847.3	457.2
75°	83.9	83.9	85.1	78.0	71.0	61.2	87.8	101.9	238.0	195.7	97.6
77.5°	65.9	66.7	71.8	65.9	56.9	38.4	47.8	54.5	70.6	56.5	35.7
80°	52.5	51.8	49.8	59.2	51.0	27.1	22.7	25.1	32.9	27.1	17.6
82.5°	36.9	36.5	34.9	40.0	39.6	20.0	14.9	15.3	20.0	17.3	11.0
85°	9.0	10.6	22.3	18.8	16.5	11.8	9.0	9.8	12.9	11.4	5.9
87.5°	3.9	3.9	10.2	12.2	7.8	5.1	3.9	4.3	6.7	6.7	3.5
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: P674409
 CATALOG NUMBER: CCP-SA-2A-735-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3	1047.3
2.5°	1050.8	1025.4	993.2	959.1	924.2	882.2	855.6	833.6	816.4	803.0	798.3
5°	1054.8	1005.7	932.8	842.2	750.1	663.8	597.2	547.8	507.0	484.6	474.8
7.5°	1054.4	989.3	857.5	705.8	556.0	431.7	343.5	289.0	252.5	237.6	228.6
10°	1054.0	967.7	771.7	554.4	371.7	250.2	184.3	153.7	140.4	135.3	134.5
12.5°	1065.3	943.0	675.6	408.2	233.3	155.7	128.2	121.2	118.0	116.5	116.1
15°	1071.6	920.3	574.4	288.2	157.2	123.1	114.5	111.4	110.2	109.4	109.0
17.5°	1078.3	885.0	478.4	208.6	125.9	111.7	106.7	104.7	103.9	103.9	103.9
20°	1079.5	846.9	383.1	153.7	111.7	104.3	99.2	97.2	96.1	95.3	95.3
22.5°	1070.8	801.9	301.1	124.7	103.5	97.2	91.8	88.6	86.7	86.3	86.3
25°	1049.3	737.9	230.9	109.4	96.8	90.2	83.5	80.0	78.4	78.4	78.4
27.5°	1018.3	662.7	178.4	97.2	88.2	81.6	75.7	72.5	72.1	71.8	72.1
30°	983.0	590.1	136.5	86.3	78.0	72.5	67.8	66.3	67.0	67.0	67.4
32.5°	947.7	517.6	106.7	77.6	69.0	64.3	62.0	62.0	63.1	63.1	63.1
35°	917.5	446.6	89.4	70.6	62.7	58.8	57.6	58.8	59.6	60.0	60.0
37.5°	900.7	385.4	78.8	64.3	57.6	54.5	54.1	55.3	56.9	58.0	58.4
40°	894.4	338.4	72.5	59.6	52.9	51.0	50.6	52.1	54.9	56.9	57.2
42.5°	894.8	296.8	67.0	54.9	49.8	47.1	47.1	49.4	52.1	54.1	54.1
45°	897.5	261.1	61.6	50.2	47.1	42.3	42.7	45.9	47.8	49.8	49.8
47.5°	899.9	232.5	55.7	45.1	40.8	38.4	39.2	41.6	44.3	47.4	47.4
50°	886.2	212.1	49.8	39.6	35.7	34.9	36.5	38.4	42.3	45.5	45.9
52.5°	853.2	193.7	44.7	35.3	32.2	32.5	34.5	35.7	38.8	39.2	39.6
55°	838.7	184.3	40.8	32.2	29.4	30.6	31.8	32.2	31.4	29.4	29.4
57.5°	835.6	178.0	36.9	29.0	27.1	28.6	28.2	25.9	23.5	21.2	20.8
60°	838.7	169.4	33.7	25.1	24.7	25.1	23.9	19.6	16.5	14.9	14.1
62.5°	820.7	156.8	31.0	21.6	21.6	21.2	18.0	13.3	10.6	9.4	9.0
65°	761.1	132.1	28.2	18.0	17.6	16.9	12.2	9.0	7.1	5.9	5.5
67.5°	643.8	102.3	25.5	14.9	14.1	11.8	7.8	5.9	3.9	3.5	3.1
70°	439.2	63.5	21.6	11.8	10.6	7.4	4.7	3.5	2.4	2.0	1.6
72.5°	159.2	36.9	18.0	9.0	7.1	4.7	2.7	1.6	1.2	1.2	0.8
75°	37.6	25.9	13.7	6.7	4.7	2.7	1.6	1.2	0.8	0.8	0.4
77.5°	17.3	20.0	9.0	3.9	3.1	2.0	1.2	0.8	0.4	0.4	0.0
80°	9.8	14.1	4.3	2.7	2.4	1.6	0.8	0.4	0.4	0.0	0.0
82.5°	5.1	7.8	3.1	2.4	2.0	1.2	0.8	0.0	0.0	0.0	0.0
85°	3.5	3.9	2.4	2.0	1.6	1.2	0.8	0.0	0.0	0.0	0.0
87.5°	2.7	2.7	2.4	2.0	1.6	1.2	0.4	0.0	0.0	0.0	0.0
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)