

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: P674399

Luminaire Tested: **CCP-SA-2B-730-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674399
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2B-730-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

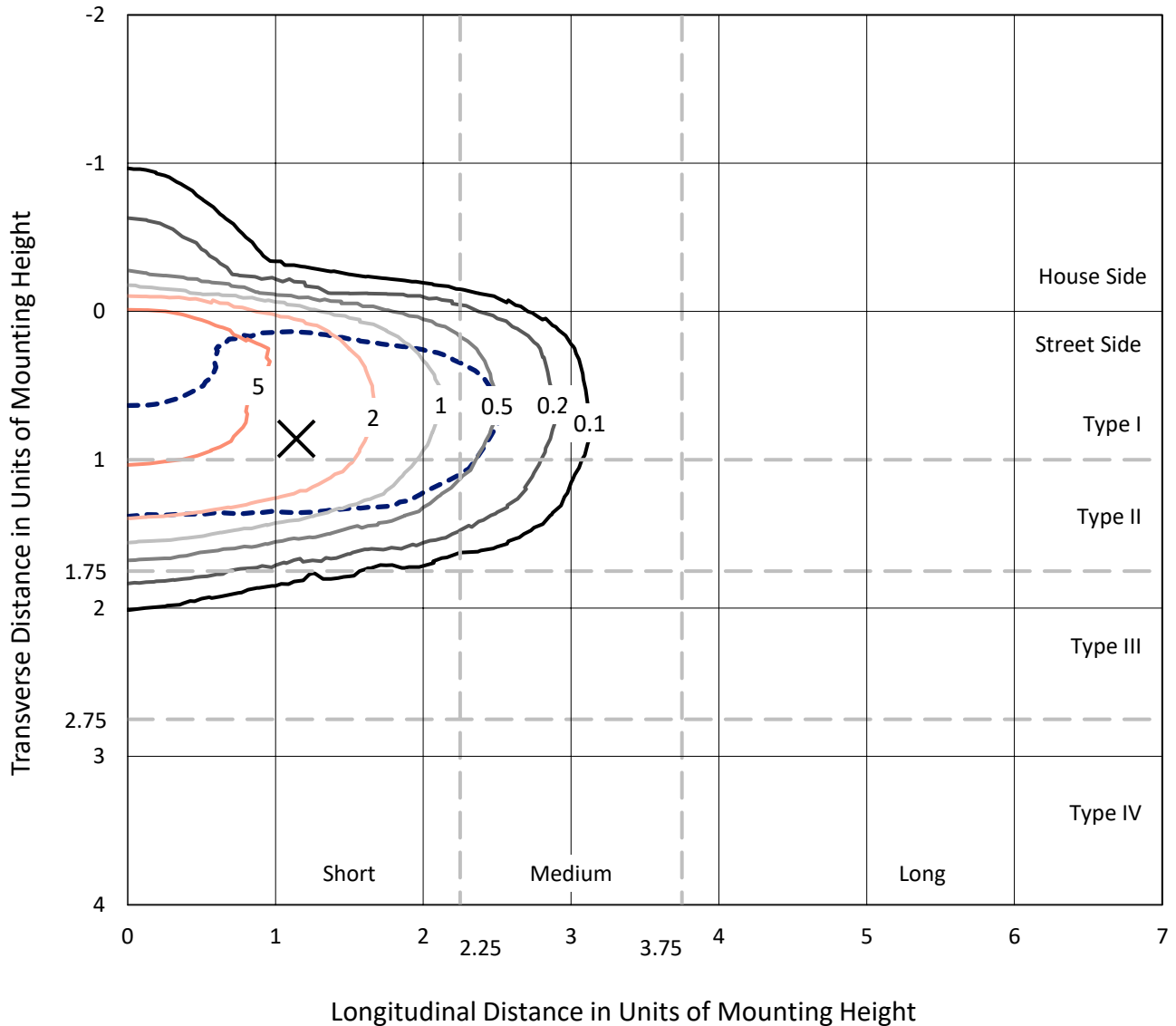
Lumens per Lamp: N/A
Luminaire Lumens: 5215 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 46
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

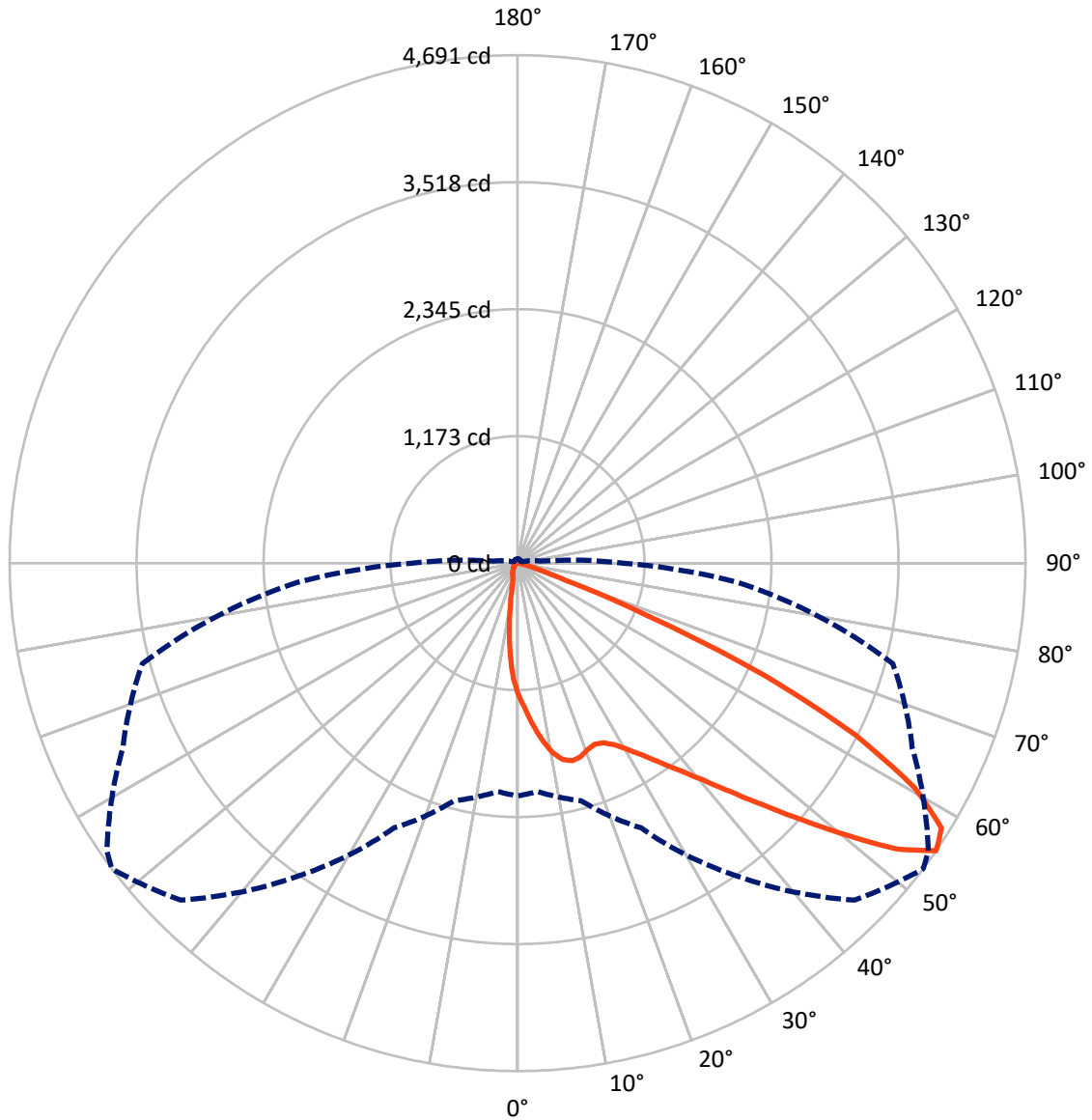
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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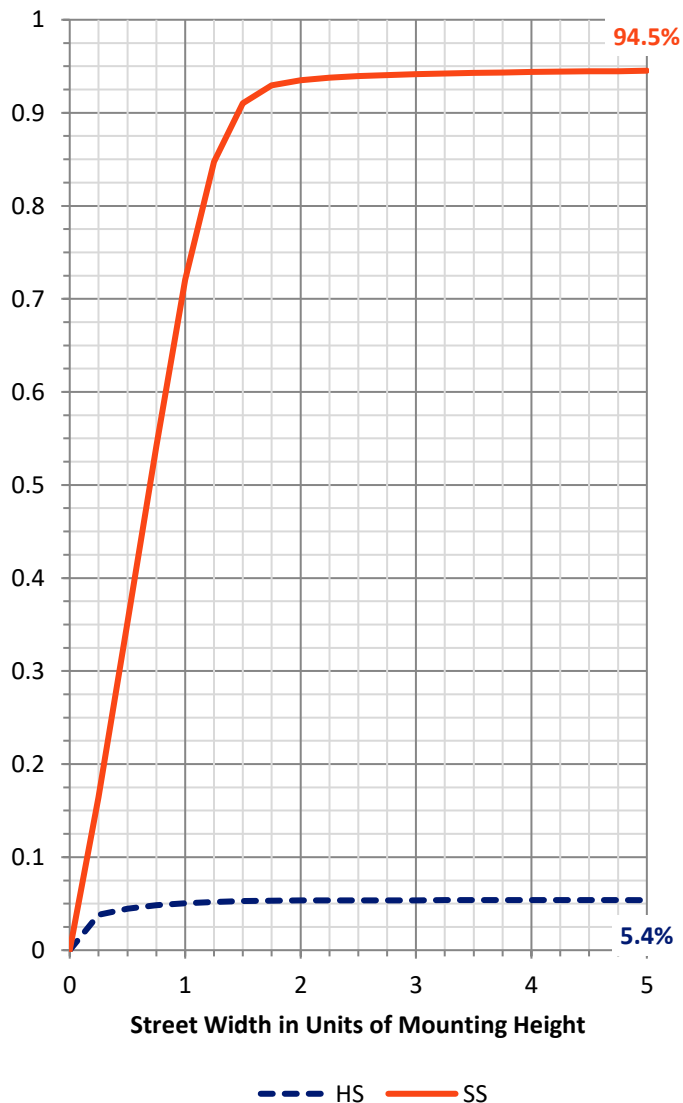
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	281.9	0.0	281.9
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	4933.1	0.0	4933.1
	% Fixture	94.6	0.0	94.6
Total	Lumens	5215.0	0.0	5215.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.1	2.1
10°-20°	285.1	5.5
20°-30°	477.2	9.2
30°-40°	780.7	15.0
40°-50°	1254.9	24.1
50°-60°	1416.9	27.2
60°-70°	755.8	14.5
70°-80°	124.2	2.4
80°-90°	11.1	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°	5215.0	100.0
0°-180°	5215.0	100.0

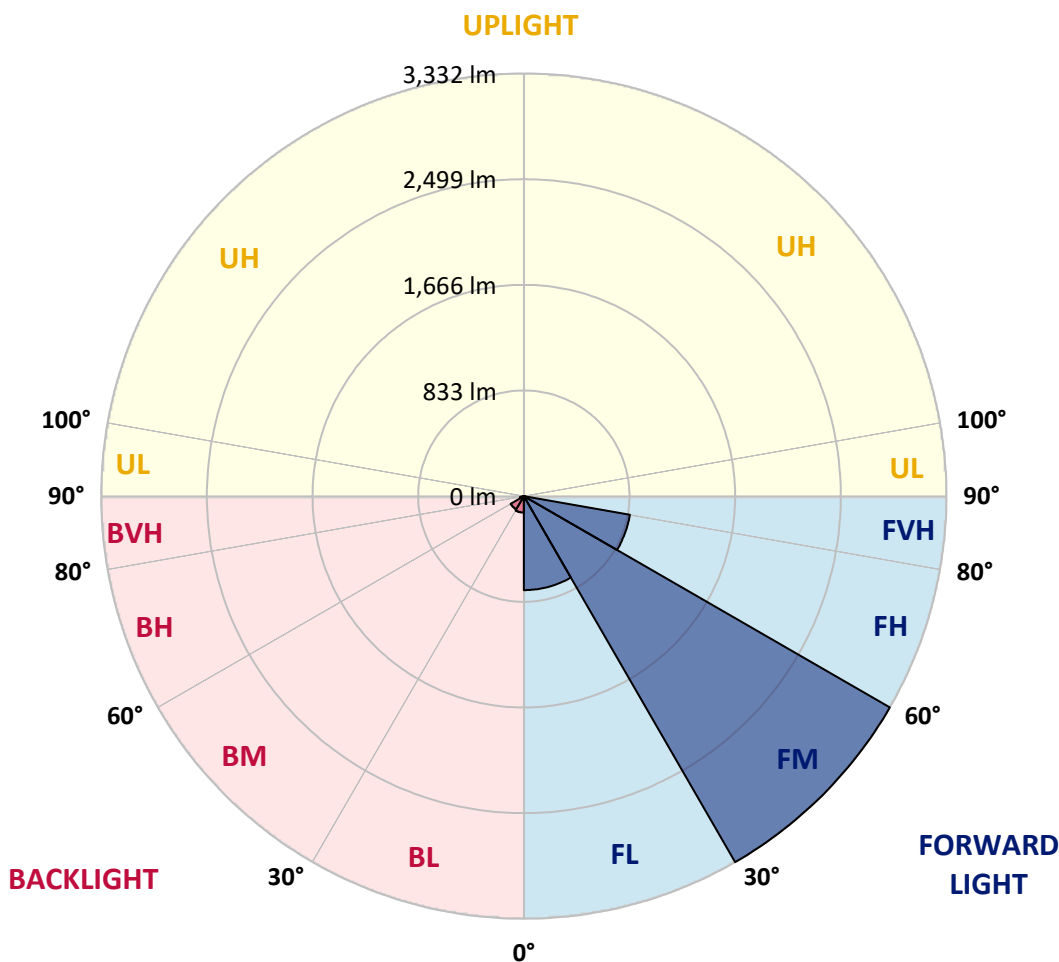


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	741.3	14.2			
FM (30°-60°)	3332.4	63.9			
FH (60°-80°)	849.1	16.3			G1/1800
FVH (80°-90°)	10.2	0.2			G1/100
BL (0°-30°)	130.1	2.5	B1/500		
BM (30°-60°)	120.1	2.3	B0/220		
BH (60°-80°)	30.8	0.6	B0/110		G0/110
BVH (80°-90°)	0.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4
2.5°	1463.5	1454.8	1459.9	1446.6	1422.4	1392.2	1347.0	1349.3	1313.6	1282.6	1239.6
5°	1705.2	1696.1	1693.4	1659.5	1625.7	1571.4	1504.2	1493.2	1427.9	1348.8	1258.8
7.5°	1832.7	1824.9	1830.9	1818.5	1785.2	1735.8	1650.9	1642.6	1541.7	1421.9	1289.4
10°	1774.2	1771.5	1796.6	1825.9	1852.8	1846.9	1778.8	1766.0	1652.7	1502.4	1321.0
12.5°	1617.0	1625.7	1657.7	1711.6	1794.8	1872.9	1862.0	1864.2	1766.0	1589.6	1355.7
15°	1524.7	1535.3	1553.5	1581.4	1683.8	1822.7	1893.5	1916.3	1874.7	1687.0	1396.8
17.5°	1517.0	1525.7	1528.4	1538.9	1598.8	1741.8	1880.7	1924.1	1971.6	1778.8	1443.0
20°	1576.8	1580.5	1578.2	1570.4	1591.9	1697.9	1840.5	1902.6	2051.6	1876.6	1483.6
22.5°	1689.7	1684.2	1677.4	1648.6	1647.2	1710.3	1818.5	1883.4	2099.1	1957.5	1510.6
25°	1829.5	1818.1	1808.5	1767.8	1748.6	1774.7	1838.2	1890.3	2142.0	2036.0	1529.8
27.5°	1982.1	1985.8	1962.0	1907.2	1877.0	1871.6	1899.0	1937.8	2183.6	2106.4	1540.3
30°	2145.2	2147.1	2116.0	2059.3	2031.9	1996.7	1994.9	2018.2	2228.4	2187.3	1550.3
32.5°	2331.2	2336.2	2285.5	2226.6	2178.6	2132.9	2110.5	2130.2	2308.8	2292.8	1570.9
35°	2599.9	2578.0	2509.4	2420.3	2352.2	2292.4	2258.1	2270.9	2415.7	2419.4	1612.0
37.5°	2876.8	2874.5	2798.6	2670.3	2558.8	2484.3	2425.8	2446.8	2566.1	2588.9	1677.8
40°	3134.9	3140.9	3075.1	2963.1	2819.7	2691.7	2629.1	2643.3	2765.7	2794.5	1757.8
42.5°	3303.5	3300.3	3305.4	3273.4	3129.5	2978.7	2884.5	2892.3	2997.9	3012.9	1857.8
45°	3381.2	3368.9	3411.8	3513.3	3456.2	3297.6	3190.2	3180.6	3238.7	3234.5	1948.8
47.5°	3314.1	3291.2	3389.9	3634.4	3744.9	3697.0	3543.4	3526.1	3476.7	3443.8	2043.4
50°	2980.0	2970.0	3181.1	3576.8	3926.3	4066.1	3953.3	3888.9	3689.2	3598.3	2093.2
52.5°	2662.5	2634.6	2777.2	3283.0	3845.5	4363.1	4386.4	4271.8	3865.6	3642.6	2076.3
55°	2150.7	2116.5	2271.8	2697.2	3525.2	4401.1	4690.8	4630.9	4020.0	3587.7	2042.0
57.5°	1306.3	1272.5	1501.0	1931.9	2819.2	4085.8	4615.8	4676.6	4138.8	3527.4	2019.6
60°	549.2	527.7	617.3	922.1	1800.3	3357.9	4218.3	4370.0	4161.2	3444.7	2028.7
62.5°	285.6	276.0	281.0	369.2	727.9	2211.0	3511.0	3775.1	3935.5	3408.2	2037.9
65°	214.3	207.0	191.0	202.9	282.8	955.9	2523.1	2876.8	3446.1	3315.4	1976.2
67.5°	175.9	169.1	157.6	154.0	166.8	331.7	1288.1	1747.7	2700.4	2920.2	1755.0
70°	140.3	138.0	134.3	127.5	125.2	160.8	461.9	712.3	1785.7	2059.3	1272.1
72.5°	117.0	117.4	113.3	107.4	99.2	103.7	184.1	243.5	864.0	987.4	532.8
75°	97.8	97.8	99.2	90.9	82.7	71.3	102.4	118.8	277.4	228.0	113.8
77.5°	76.8	77.7	83.6	76.8	66.3	44.8	55.7	63.5	82.2	65.8	41.6
80°	61.2	60.3	58.0	69.0	59.4	31.5	26.5	29.2	38.4	31.5	20.6
82.5°	43.0	42.5	40.7	46.6	46.1	23.3	17.4	17.8	23.3	20.1	12.8
85°	10.5	12.3	26.0	21.9	19.2	13.7	10.5	11.4	15.1	13.3	6.9
87.5°	4.6	4.6	11.9	14.2	9.1	5.9	4.6	5.0	7.8	7.8	4.1
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°	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4	1220.4
2.5°	1224.6	1194.9	1157.4	1117.6	1077.0	1028.1	997.0	971.4	951.3	935.8	930.3
5°	1229.1	1172.0	1087.0	981.5	874.1	773.6	695.9	638.3	590.8	564.8	553.3
7.5°	1228.7	1152.8	999.3	822.5	647.9	503.1	400.3	336.8	294.3	276.9	266.4
10°	1228.2	1127.7	899.2	646.1	433.2	291.5	214.8	179.1	163.6	157.6	156.7
12.5°	1241.5	1098.9	787.3	475.7	271.9	181.4	149.4	141.2	137.5	135.7	135.2
15°	1248.8	1072.4	669.4	335.8	183.2	143.5	133.4	129.8	128.4	127.5	127.0
17.5°	1256.5	1031.3	557.4	243.1	146.7	130.2	124.3	122.0	121.1	121.1	121.1
20°	1257.9	987.0	446.4	179.1	130.2	121.5	115.6	113.3	111.9	111.0	111.0
22.5°	1247.9	934.4	350.9	145.3	120.6	113.3	106.9	103.3	101.0	100.5	100.5
25°	1222.7	859.9	269.1	127.5	112.9	105.1	97.3	93.2	91.4	91.4	91.4
27.5°	1186.6	772.2	207.9	113.3	102.8	95.0	88.2	84.5	84.1	83.6	84.1
30°	1145.5	687.7	159.0	100.5	90.9	84.5	79.0	77.2	78.1	78.1	78.6
32.5°	1104.4	603.1	124.3	90.5	80.4	74.9	72.2	72.2	73.6	73.6	73.6
35°	1069.2	520.4	104.2	82.2	73.1	68.5	67.2	68.5	69.5	69.9	69.9
37.5°	1049.5	449.2	91.8	74.9	67.2	63.5	63.1	64.4	66.3	67.6	68.1
40°	1042.2	394.3	84.5	69.5	61.7	59.4	58.9	60.8	64.0	66.3	66.7
42.5°	1042.7	345.9	78.1	64.0	58.0	54.8	54.8	57.6	60.8	63.1	63.1
45°	1045.9	304.3	71.7	58.5	54.8	49.3	49.8	53.5	55.7	58.0	58.0
47.5°	1048.6	271.0	64.9	52.5	47.5	44.8	45.7	48.4	51.6	55.3	55.3
50°	1032.6	247.2	58.0	46.1	41.6	40.7	42.5	44.8	49.3	53.0	53.5
52.5°	994.3	225.7	52.1	41.1	37.5	37.9	40.2	41.6	45.2	45.7	46.1
55°	977.4	214.8	47.5	37.5	34.3	35.6	37.0	37.5	36.6	34.3	34.3
57.5°	973.7	207.4	43.0	33.8	31.5	33.4	32.9	30.2	27.4	24.7	24.2
60°	977.4	197.4	39.3	29.2	28.8	29.2	27.9	22.8	19.2	17.4	16.4
62.5°	956.3	182.8	36.1	25.1	25.1	24.7	21.0	15.5	12.3	11.0	10.5
65°	886.9	154.0	32.9	21.0	20.6	19.6	14.2	10.5	8.2	6.9	6.4
67.5°	750.3	119.3	29.7	17.4	16.4	13.7	9.1	6.9	4.6	4.1	3.7
70°	511.8	74.0	25.1	13.7	12.3	8.7	5.5	4.1	2.7	2.3	1.8
72.5°	185.5	43.0	21.0	10.5	8.2	5.5	3.2	1.8	1.4	1.4	0.9
75°	43.9	30.2	16.0	7.8	5.5	3.2	1.8	1.4	0.9	0.9	0.5
77.5°	20.1	23.3	10.5	4.6	3.7	2.3	1.4	0.9	0.5	0.5	0.0
80°	11.4	16.4	5.0	3.2	2.7	1.8	0.9	0.5	0.5	0.0	0.0
82.5°	5.9	9.1	3.7	2.7	2.3	1.4	0.9	0.0	0.0	0.0	0.0
85°	4.1	4.6	2.7	2.3	1.8	1.4	0.9	0.0	0.0	0.0	0.0
87.5°	3.2	3.2	2.7	2.3	1.8	1.4	0.5	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)