

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: P674488

Luminaire Tested: **CCP-SA-2C-840-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674488
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2C-840-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @615mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

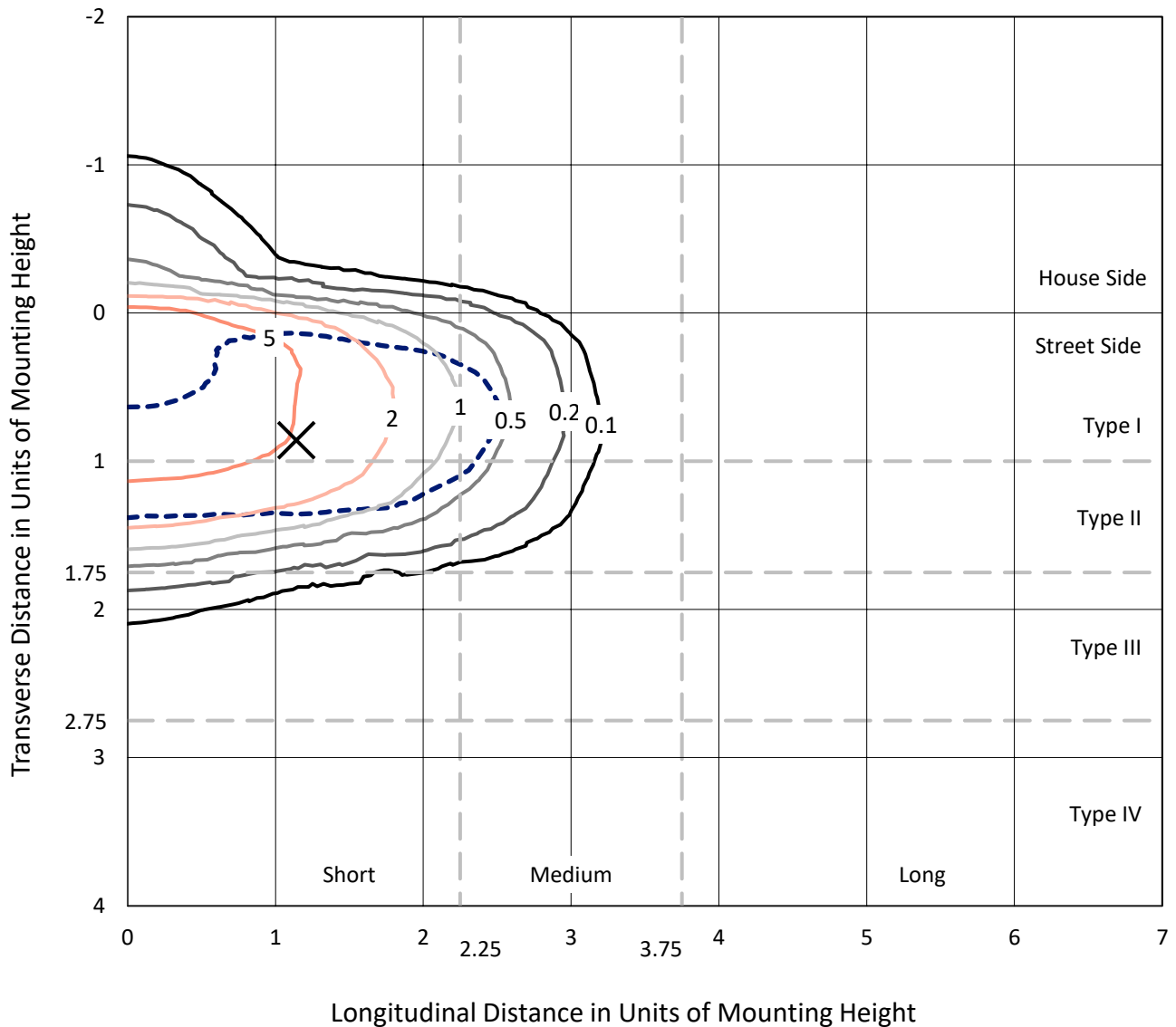
Lumens per Lamp: N/A
Luminaire Lumens: 6392.6 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 62.1
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

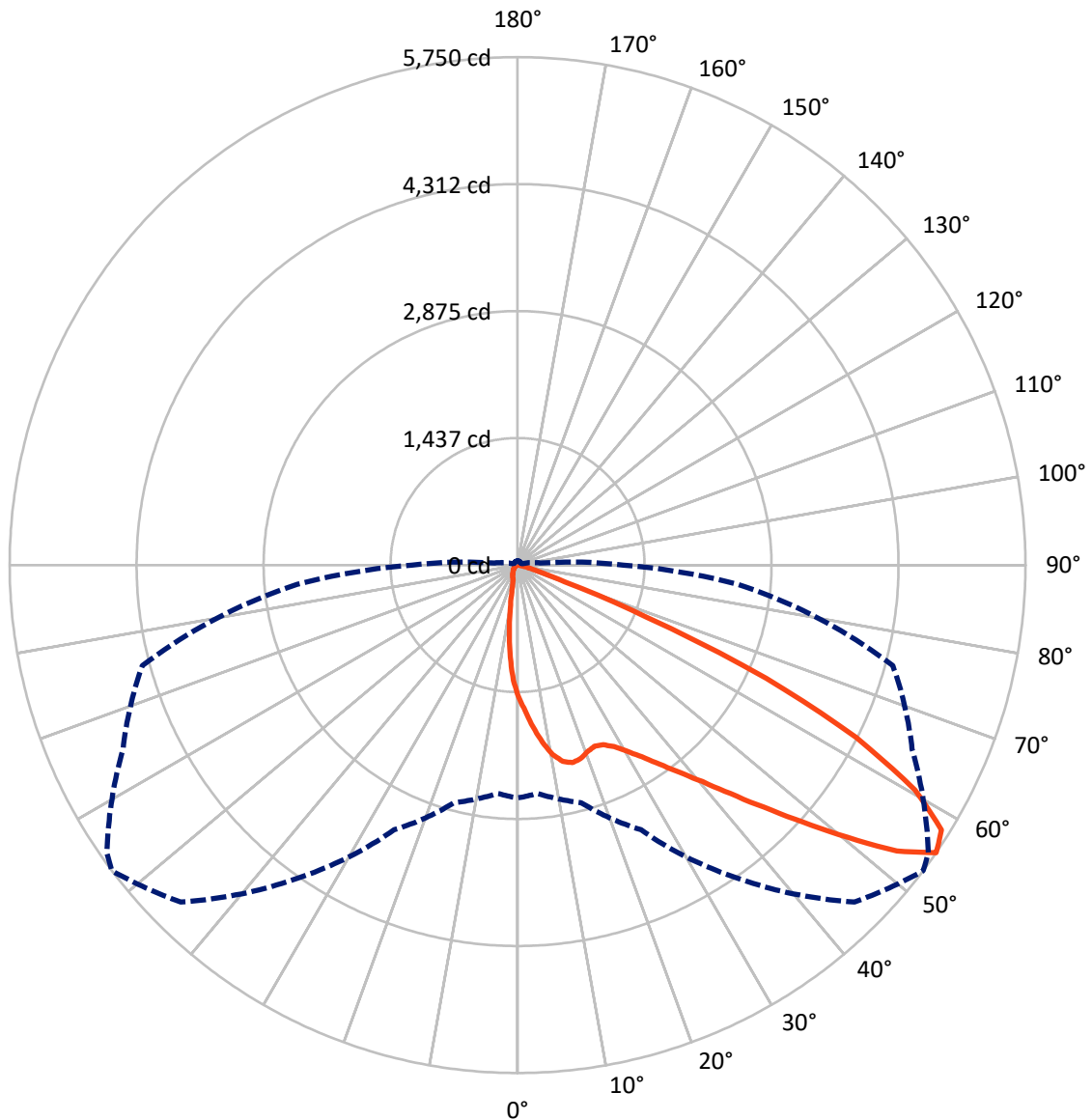
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 9.7 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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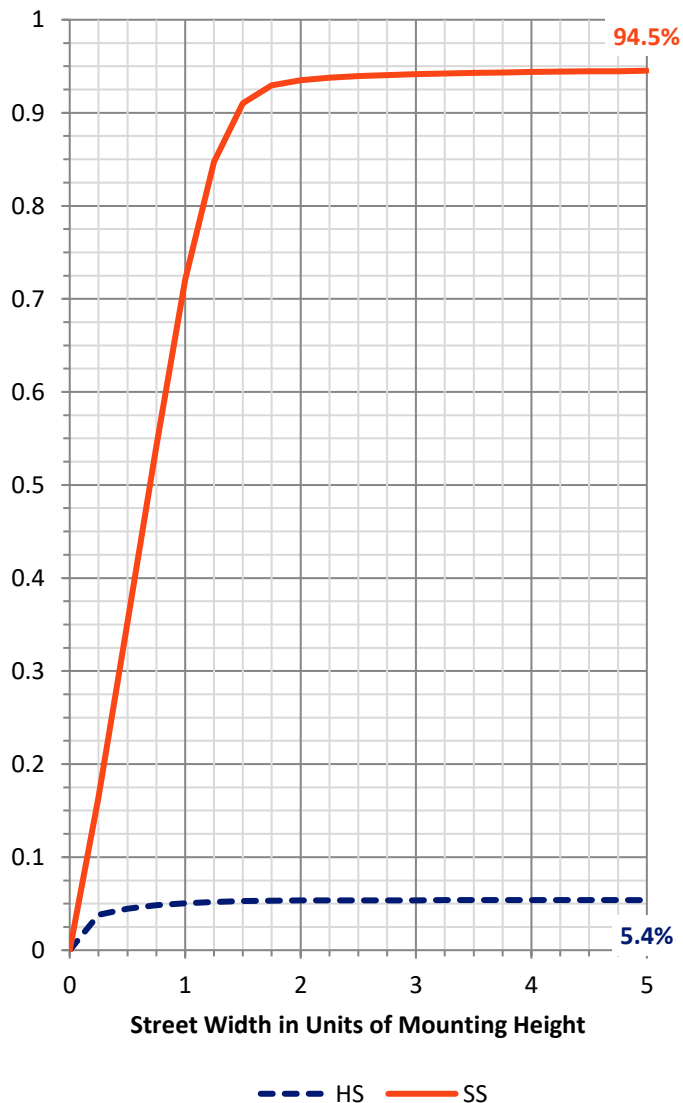
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	345.5	0.0	345.5
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	6047.0	0.0	6047.0
	% Fixture	94.6	0.0	94.6
Total	Lumens	6392.6	0.0	6392.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.8	2.1
10°-20°	349.5	5.5
20°-30°	584.9	9.2
30°-40°	957.0	15.0
40°-50°	1538.3	24.1
50°-60°	1736.8	27.2
60°-70°	926.4	14.5
70°-80°	152.2	2.4
80°-90°	13.6	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°	6392.6	100.0
0°-180°	6392.6	100.0



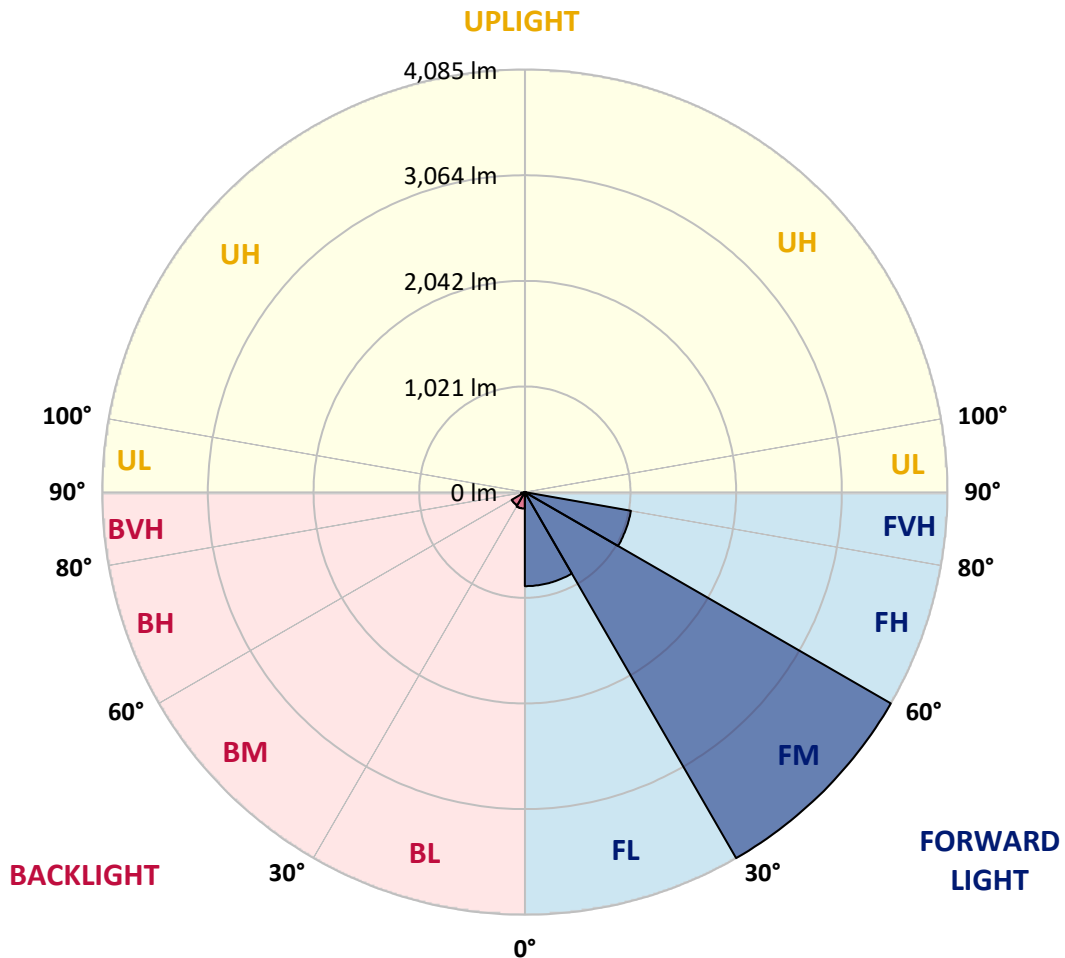
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	908.7	14.2			
FM (30°-60°)	4084.9	63.9			
FH (60°-80°)	1040.9	16.3			G1/1800
FVH (80°-90°)	12.5	0.2			G1/100
BL (0°-30°)	159.5	2.5	B1/500		
BM (30°-60°)	147.2	2.3	B0/220		
BH (60°-80°)	37.8	0.6	B0/110		G0/110
BVH (80°-90°)	1.1	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°	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0
2.5°	1794.0	1783.3	1789.5	1773.3	1743.6	1706.6	1651.2	1654.0	1610.3	1572.2	1519.5
5°	2090.3	2079.1	2075.7	2034.3	1992.8	1926.2	1843.8	1830.4	1750.3	1653.4	1543.1
7.5°	2246.5	2237.0	2244.3	2229.2	2188.3	2127.8	2023.6	2013.5	1889.8	1743.0	1580.6
10°	2174.8	2171.5	2202.3	2238.1	2271.2	2263.9	2180.4	2164.8	2025.9	1841.6	1619.2
12.5°	1982.2	1992.8	2032.0	2098.1	2200.1	2295.8	2282.4	2285.2	2164.8	1948.6	1661.8
15°	1869.0	1881.9	1904.3	1938.5	2063.9	2234.2	2321.0	2349.0	2298.1	2067.9	1712.2
17.5°	1859.5	1870.2	1873.5	1886.4	1959.8	2135.1	2305.4	2358.6	2416.8	2180.4	1768.8
20°	1932.9	1937.4	1934.6	1925.0	1951.4	2081.3	2256.1	2332.2	2514.8	2300.3	1818.6
22.5°	2071.2	2064.5	2056.1	2020.8	2019.1	2096.4	2229.2	2308.7	2573.1	2399.4	1851.7
25°	2242.6	2228.6	2216.9	2167.0	2143.5	2175.4	2253.3	2317.1	2625.7	2495.8	1875.2
27.5°	2429.7	2434.2	2405.0	2337.8	2300.9	2294.1	2327.8	2375.4	2676.7	2582.0	1888.1
30°	2629.6	2631.9	2593.8	2524.3	2490.7	2447.6	2445.4	2473.9	2731.6	2681.2	1900.4
32.5°	2857.6	2863.8	2801.6	2729.3	2670.5	2614.5	2587.1	2611.2	2830.2	2810.6	1925.6
35°	3186.9	3160.1	3076.0	2966.8	2883.4	2810.0	2768.0	2783.7	2961.2	2965.7	1976.0
37.5°	3526.4	3523.6	3430.6	3273.2	3136.5	3045.2	2973.5	2999.3	3145.5	3173.5	2056.7
40°	3842.8	3850.1	3769.4	3632.2	3456.3	3299.5	3222.8	3240.1	3390.3	3425.5	2154.7
42.5°	4049.5	4045.6	4051.7	4012.5	3836.1	3651.3	3535.9	3545.4	3674.8	3693.3	2277.3
45°	4144.7	4129.6	4182.2	4306.6	4236.6	4042.2	3910.6	3898.8	3970.0	3964.9	2388.8
47.5°	4062.4	4034.4	4155.3	4455.0	4590.5	4531.7	4343.5	4322.3	4261.8	4221.4	2504.7
50°	3652.9	3640.6	3899.4	4384.4	4812.9	4984.3	4845.9	4767.0	4522.2	4410.7	2565.8
52.5°	3263.7	3229.5	3404.3	4024.3	4713.8	5348.3	5376.9	5236.3	4738.4	4465.1	2545.1
55°	2636.4	2594.4	2784.8	3306.2	4321.1	5394.8	5749.9	5676.6	4927.7	4397.9	2503.1
57.5°	1601.3	1559.9	1839.9	2368.1	3455.8	5008.4	5658.1	5732.6	5073.3	4323.9	2475.6
60°	673.2	646.9	756.7	1130.3	2206.8	4116.1	5170.8	5356.7	5100.8	4222.6	2486.8
62.5°	350.1	338.3	344.5	452.6	892.2	2710.3	4303.8	4627.5	4824.1	4177.7	2498.0
65°	262.7	253.7	234.1	248.7	346.7	1171.7	3092.8	3526.4	4224.2	4064.0	2422.4
67.5°	215.6	207.2	193.2	188.8	204.4	406.6	1578.9	2142.4	3310.2	3579.6	2151.3
70°	171.9	169.1	164.7	156.3	153.5	197.2	566.3	873.2	2188.9	2524.3	1559.3
72.5°	143.4	143.9	138.9	131.6	121.5	127.1	225.7	298.5	1059.1	1210.4	653.1
75°	119.9	119.9	121.5	111.5	101.4	87.4	125.5	145.6	340.0	279.5	139.5
77.5°	94.1	95.2	102.5	94.1	81.2	54.9	68.3	77.9	100.8	80.7	51.0
80°	75.1	73.9	71.1	84.6	72.8	38.6	32.5	35.8	47.0	38.6	25.2
82.5°	52.6	52.1	49.8	57.1	56.6	28.6	21.3	21.8	28.6	24.6	15.7
85°	12.9	15.1	31.9	26.9	23.5	16.8	12.9	14.0	18.5	16.2	8.4
87.5°	5.6	5.6	14.6	17.4	11.2	7.3	5.6	6.2	9.5	9.5	5.0
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°	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0	1496.0
2.5°	1501.1	1464.6	1418.7	1370.0	1320.1	1260.2	1222.1	1190.8	1166.1	1147.1	1140.4
5°	1506.7	1436.6	1332.5	1203.1	1071.5	948.2	853.0	782.5	724.2	692.3	678.3
7.5°	1506.1	1413.1	1224.9	1008.2	794.2	616.7	490.6	412.8	360.7	339.4	326.5
10°	1505.5	1382.3	1102.3	792.0	531.0	357.3	263.2	219.6	200.5	193.2	192.1
12.5°	1521.8	1347.0	965.0	583.1	333.3	222.4	183.2	173.1	168.6	166.3	165.8
15°	1530.7	1314.5	820.5	411.7	224.6	175.9	163.5	159.1	157.4	156.3	155.7
17.5°	1540.3	1264.1	683.3	298.0	179.8	159.6	152.3	149.5	148.4	148.4	148.4
20°	1541.9	1209.8	547.2	219.6	159.6	149.0	141.7	138.9	137.2	136.1	136.1
22.5°	1529.6	1145.4	430.2	178.1	147.9	138.9	131.1	126.6	123.8	123.2	123.2
25°	1498.8	1054.1	329.9	156.3	138.3	128.8	119.3	114.3	112.0	112.0	112.0
27.5°	1454.6	946.6	254.8	138.9	126.0	116.5	108.1	103.6	103.1	102.5	103.1
30°	1404.2	842.9	194.9	123.2	111.5	103.6	96.9	94.7	95.8	95.8	96.3
32.5°	1353.7	739.3	152.3	110.9	98.6	91.9	88.5	88.5	90.2	90.2	90.2
35°	1310.6	637.9	127.7	100.8	89.6	84.0	82.3	84.0	85.1	85.7	85.7
37.5°	1286.5	550.6	112.6	91.9	82.3	77.9	77.3	79.0	81.2	82.9	83.5
40°	1277.6	483.4	103.6	85.1	75.6	72.8	72.3	74.5	78.4	81.2	81.8
42.5°	1278.1	424.0	95.8	78.4	71.1	67.2	67.2	70.6	74.5	77.3	77.3
45°	1282.1	373.0	87.9	71.7	67.2	60.5	61.1	65.5	68.3	71.1	71.1
47.5°	1285.4	332.1	79.5	64.4	58.2	54.9	56.0	59.4	63.3	67.8	67.8
50°	1265.8	303.0	71.1	56.6	51.0	49.8	52.1	54.9	60.5	65.0	65.5
52.5°	1218.8	276.7	63.9	50.4	45.9	46.5	49.3	51.0	55.4	56.0	56.6
55°	1198.0	263.2	58.2	45.9	42.0	43.7	45.4	45.9	44.8	42.0	42.0
57.5°	1193.6	254.3	52.6	41.4	38.6	40.9	40.3	37.0	33.6	30.2	29.7
60°	1198.0	242.0	48.2	35.8	35.3	35.8	34.2	28.0	23.5	21.3	20.2
62.5°	1172.3	224.0	44.2	30.8	30.8	30.2	25.8	19.0	15.1	13.4	12.9
65°	1087.1	188.8	40.3	25.8	25.2	24.1	17.4	12.9	10.1	8.4	7.8
67.5°	919.7	146.2	36.4	21.3	20.2	16.8	11.2	8.4	5.6	5.0	4.5
70°	627.3	90.7	30.8	16.8	15.1	10.6	6.7	5.0	3.4	2.8	2.2
72.5°	227.4	52.6	25.8	12.9	10.1	6.7	3.9	2.2	1.7	1.7	1.1
75°	53.8	37.0	19.6	9.5	6.7	3.9	2.2	1.7	1.1	1.1	0.6
77.5°	24.6	28.6	12.9	5.6	4.5	2.8	1.7	1.1	0.6	0.6	0.0
80°	14.0	20.2	6.2	3.9	3.4	2.2	1.1	0.6	0.6	0.0	0.0
82.5°	7.3	11.2	4.5	3.4	2.8	1.7	1.1	0.0	0.0	0.0	0.0
85°	5.0	5.6	3.4	2.8	2.2	1.7	1.1	0.0	0.0	0.0	0.0
87.5°	3.9	3.9	3.4	2.8	2.2	1.7	0.6	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)