

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: P672182

Luminaire Tested: **CCP-SA-2A-840-U-T2R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672182
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-T2R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T2R distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

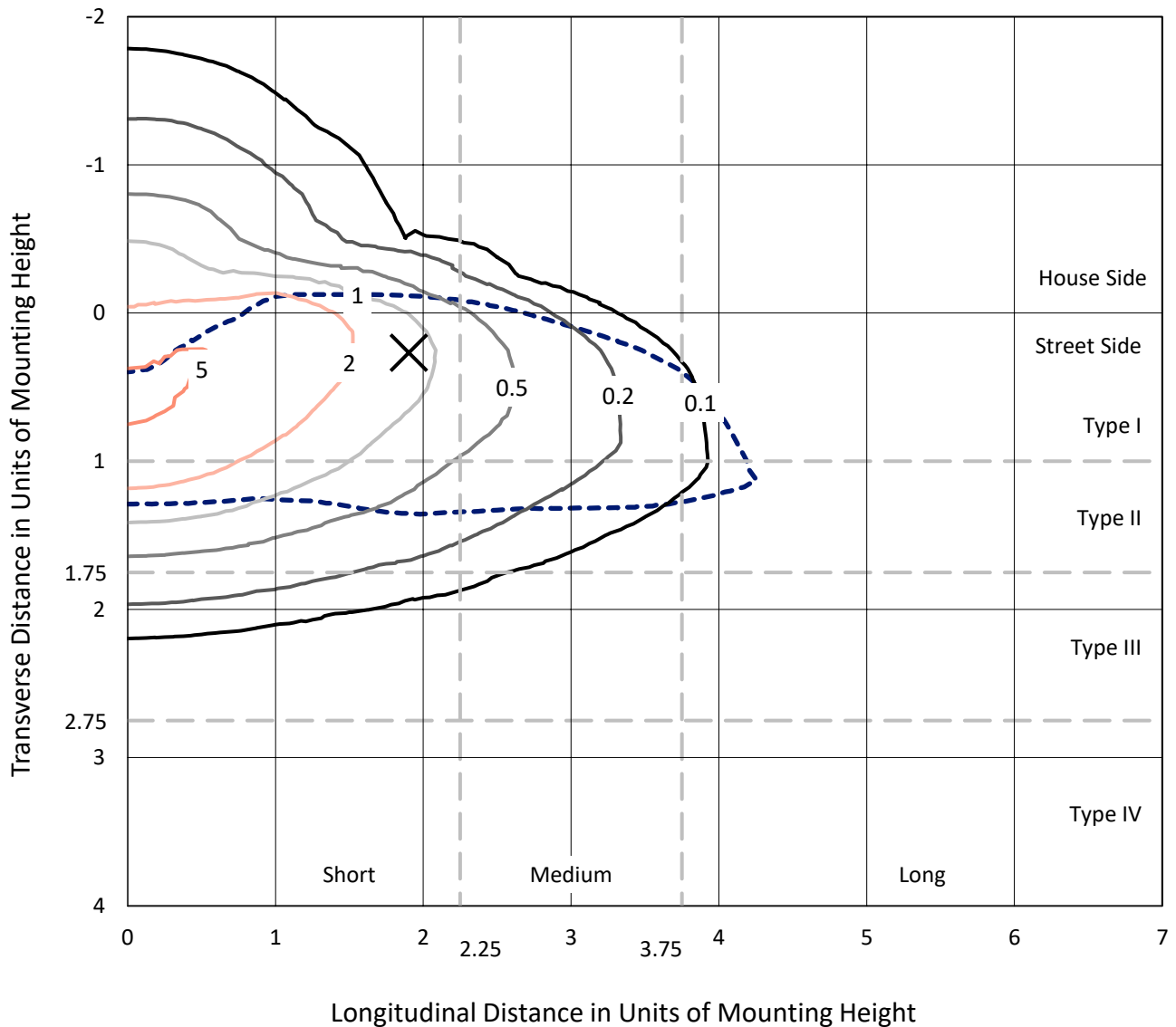
Lumens per Lamp: N/A
Luminaire Lumens: 4738.6 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 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

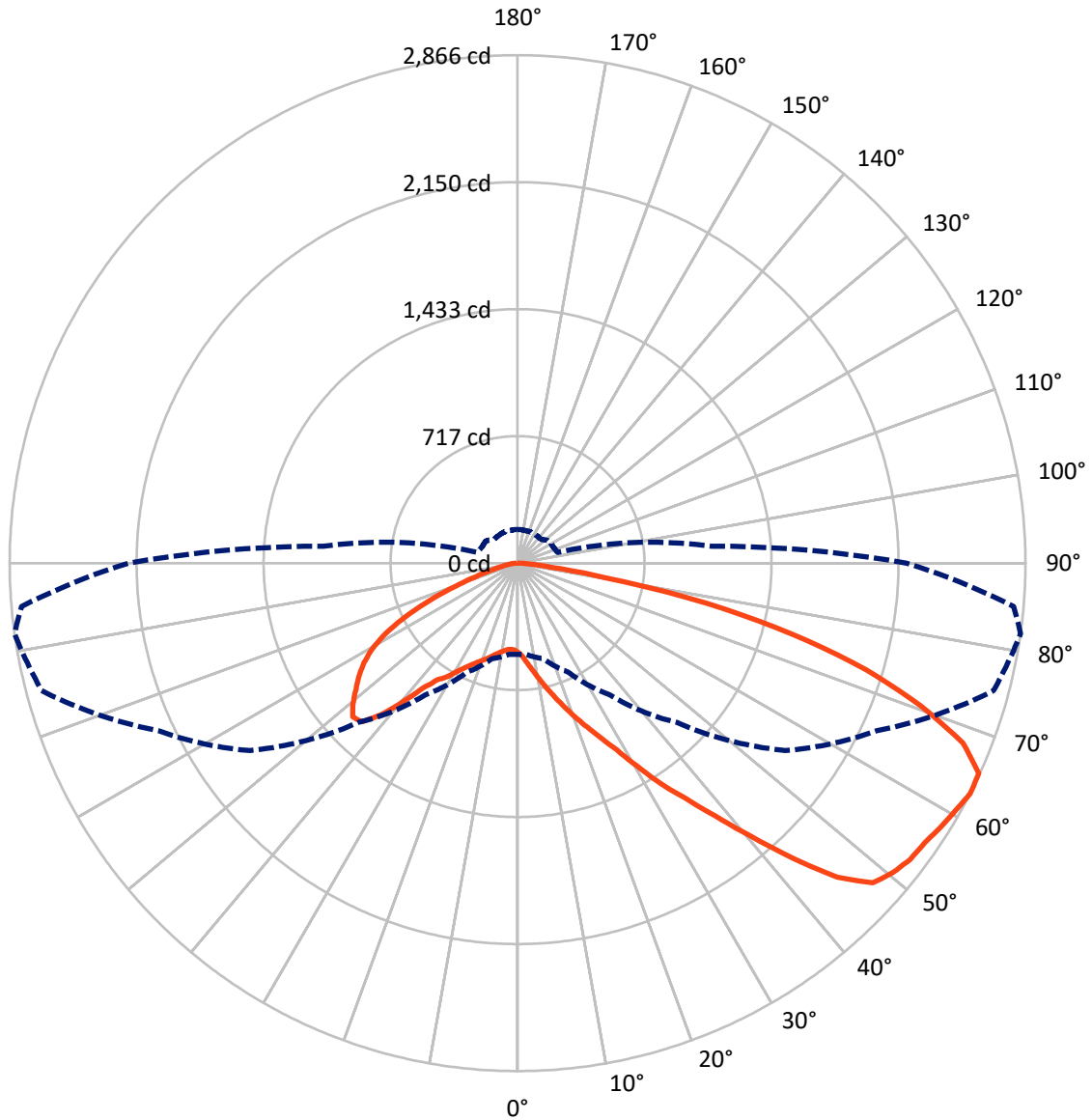
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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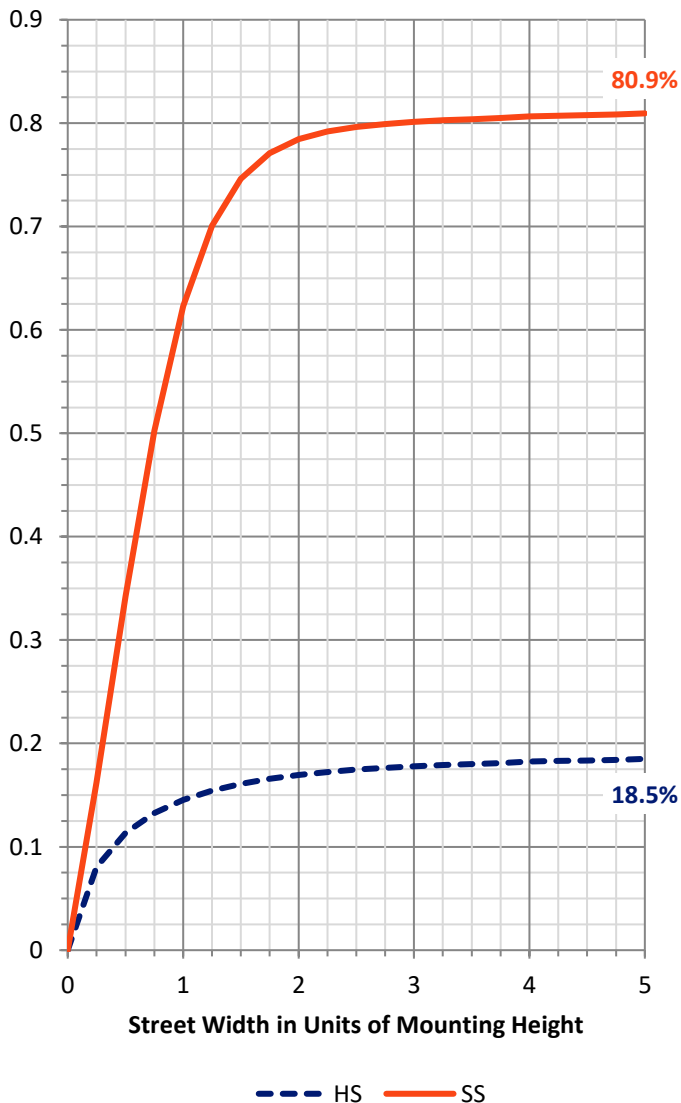
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	892.7	0.0	892.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3845.9	0.0	3845.9
	% Fixture	81.2	0.0	81.2
Total	Lumens	4738.6	0.0	4738.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.8	1.2
10°-20°	210.3	4.4
20°-30°	435.6	9.2
30°-40°	739.3	15.6
40°-50°	1006.7	21.2
50°-60°	1019.0	21.5
60°-70°	803.1	16.9
70°-80°	395.6	8.3
80°-90°	73.2	1.5
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°	4738.6	100.0
0°-180°	4738.6	100.0



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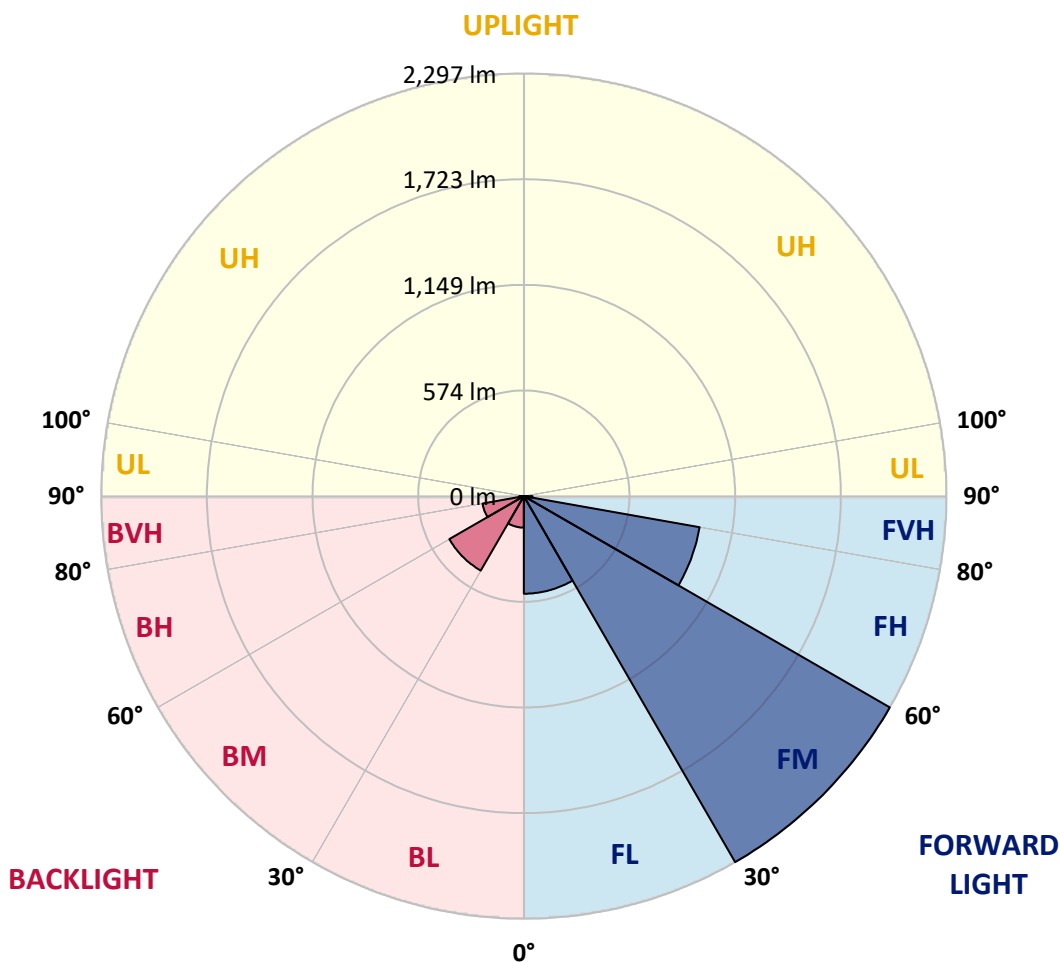
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	530.4	11.2			
FM (30°-60°)	2297.5	48.5			
FH (60°-80°)	970.5	20.5			G1/1800
FVH (80°-90°)	47.5	1.0			G1/100
BL (0°-30°)	171.3	3.6	B1/500		
BM (30°-60°)	467.6	9.9	B1/1000		
BH (60°-80°)	228.2	4.8	B1/500		G1/500
BVH (80°-90°)	25.6	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°	65°	75°	82°	85°
0°	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9
2.5°	671.1	660.9	655.4	649.3	632.2	621.3	600.8	576.9	549.3	525.8	521.3
5°	812.7	802.5	803.8	788.8	763.9	740.7	702.5	657.5	604.9	564.7	550.7
7.5°	912.7	901.4	904.1	898.0	877.9	852.3	803.8	745.8	669.1	609.3	586.8
10°	979.5	980.9	982.9	980.6	967.6	949.5	901.4	837.3	741.7	662.2	631.5
12.5°	1055.3	1059.0	1058.3	1059.4	1052.5	1038.2	991.1	930.7	819.2	719.2	679.3
15°	1151.8	1148.1	1151.1	1155.6	1148.1	1132.4	1090.8	1019.1	900.4	782.7	733.2
17.5°	1257.6	1249.7	1257.9	1253.5	1248.0	1237.8	1192.1	1115.7	984.3	851.2	793.2
20°	1349.0	1343.9	1348.3	1349.0	1350.0	1348.0	1300.9	1219.7	1072.3	926.0	858.1
22.5°	1451.7	1449.3	1448.7	1449.0	1450.0	1452.4	1420.3	1333.7	1169.9	1004.4	928.0
25°	1595.4	1593.0	1577.3	1559.9	1549.6	1557.1	1540.4	1463.0	1277.7	1092.5	1004.8
27.5°	1756.4	1752.6	1731.8	1687.8	1655.1	1660.5	1658.8	1605.6	1401.9	1193.4	1096.9
30°	1923.6	1914.4	1885.7	1823.9	1772.4	1762.9	1767.7	1749.9	1558.2	1327.5	1225.2
32.5°	2072.7	2055.6	2017.7	1955.3	1893.9	1866.3	1866.9	1874.8	1728.1	1483.8	1359.6
35°	2163.8	2152.5	2124.2	2061.1	1992.5	1974.1	1969.0	2008.2	1884.0	1628.5	1480.0
37.5°	2212.9	2202.0	2171.6	2120.8	2068.9	2061.4	2071.0	2131.7	2061.1	1808.9	1643.8
40°	2204.0	2192.4	2172.6	2137.2	2103.0	2108.8	2151.1	2245.0	2254.5	2024.9	1877.2
42.5°	2131.0	2118.7	2117.0	2114.6	2098.6	2124.2	2200.6	2327.9	2432.3	2274.3	2159.7
45°	2002.0	1994.5	2003.4	2044.4	2064.5	2114.0	2223.8	2368.1	2588.5	2527.8	2426.8
47.5°	1838.6	1834.2	1854.3	1919.1	1984.3	2082.6	2239.2	2379.0	2696.0	2696.0	2601.8
50°	1655.7	1654.0	1680.7	1774.8	1876.8	2024.9	2237.5	2389.3	2743.1	2745.5	2663.6
52.5°	1400.5	1409.4	1480.4	1604.6	1743.1	1934.5	2213.6	2417.9	2769.7	2775.2	2704.9
55°	1106.4	1115.0	1222.1	1389.3	1566.7	1824.6	2142.3	2409.4	2774.8	2787.1	2728.4
57.5°	883.3	885.0	951.9	1150.5	1370.2	1684.1	2060.0	2352.8	2759.8	2813.4	2764.6
60°	691.2	696.7	741.4	898.7	1142.3	1502.9	1968.3	2296.8	2768.3	2838.3	2797.3
62.5°	514.8	516.2	557.8	679.6	907.5	1271.9	1843.7	2237.1	2780.3	2866.3	2810.6
65°	335.4	335.0	375.3	485.2	677.9	1022.5	1648.2	2143.6	2781.3	2860.1	2749.6
67.5°	213.2	214.6	232.0	301.3	453.8	771.7	1382.1	1970.0	2732.9	2711.4	2527.1
70°	173.0	173.3	178.8	196.9	276.4	527.5	1038.9	1698.4	2579.7	2414.9	2196.5
72.5°	154.2	154.6	157.3	159.3	184.2	317.0	681.7	1379.0	2307.4	2058.3	1822.2
75°	138.5	138.5	140.2	138.2	151.1	198.9	386.9	1036.8	1900.4	1602.9	1376.7
77.5°	121.5	121.1	121.1	120.1	130.7	145.3	193.8	723.6	1368.8	1093.1	892.9
80°	103.0	102.4	103.4	102.7	112.9	110.2	112.9	446.6	742.1	501.2	380.1
82.5°	80.2	80.2	83.2	83.9	93.1	79.8	79.5	211.9	281.8	187.3	140.2
85°	42.0	47.1	63.5	66.2	70.3	50.2	58.3	98.9	112.9	71.6	51.2
87.5°	12.6	13.3	38.9	43.7	43.3	25.2	35.8	47.8	52.9	31.7	20.8
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°	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9	503.9
2.5°	510.1	498.1	472.9	450.4	433.3	416.9	405.7	399.9	392.4	393.4	391.0
5°	525.8	501.2	456.5	420.3	396.1	377.7	366.4	360.6	355.2	352.4	354.5
7.5°	549.3	511.1	448.7	405.0	379.7	364.0	357.9	356.2	354.8	353.8	355.5
10°	579.7	528.5	447.3	399.5	376.3	366.8	364.4	363.4	362.0	360.6	361.7
12.5°	610.7	547.6	452.1	400.9	381.8	374.6	371.5	370.2	366.8	365.1	365.4
15°	649.6	570.8	458.5	406.3	388.9	379.7	375.6	371.9	366.4	364.0	365.1
17.5°	691.2	598.4	467.4	411.5	391.7	380.4	372.2	366.8	361.3	357.9	358.2
20°	738.3	625.7	475.3	413.2	390.3	374.6	364.7	358.2	351.1	347.3	346.3
22.5°	787.1	654.4	481.4	411.8	382.8	364.7	353.5	345.6	337.1	331.3	331.6
25°	846.5	693.3	486.5	407.0	372.9	351.8	339.1	329.2	320.4	314.9	315.3
27.5°	917.8	737.3	492.7	399.5	361.0	337.8	323.1	313.2	304.7	299.6	298.9
30°	1013.0	794.6	499.5	390.3	346.0	322.4	308.1	297.9	289.7	284.9	284.9
32.5°	1120.1	864.6	504.3	379.4	329.2	306.0	293.1	284.9	278.7	272.3	271.6
35°	1213.2	918.8	518.9	370.9	314.6	290.7	281.8	276.0	266.8	260.7	259.6
37.5°	1350.0	1014.3	562.3	368.5	296.8	278.7	277.0	266.1	255.5	243.9	242.9
40°	1570.5	1179.8	612.8	356.9	278.4	272.3	270.6	255.9	231.0	223.8	222.4
42.5°	1850.9	1379.0	618.2	323.1	265.4	266.8	261.7	233.0	222.1	216.6	215.3
45°	2104.1	1540.8	587.2	288.6	255.9	258.6	248.0	224.5	218.4	213.2	211.9
47.5°	2246.3	1590.6	528.5	262.7	248.7	251.4	226.2	220.4	214.3	209.1	207.8
50°	2286.2	1547.3	460.3	247.7	243.3	244.3	220.4	217.0	211.5	207.4	205.4
52.5°	2294.1	1482.4	397.1	238.8	239.2	230.0	215.3	212.6	209.1	202.7	200.3
55°	2297.5	1424.1	340.5	233.4	236.4	211.5	209.8	207.8	205.0	198.2	196.9
57.5°	2306.4	1349.4	296.1	229.3	233.0	203.0	203.7	202.3	198.9	195.8	195.2
60°	2281.1	1246.0	262.0	225.2	228.2	195.8	196.5	197.2	194.1	193.4	193.1
62.5°	2196.5	1099.3	233.0	219.7	218.4	188.7	188.7	191.4	188.7	189.7	189.7
65°	2022.2	912.3	207.1	209.5	203.0	180.8	180.5	185.3	181.2	185.6	185.9
67.5°	1725.0	690.5	180.5	193.4	187.0	172.6	174.0	177.8	172.3	181.5	181.5
70°	1365.4	469.8	152.8	170.9	170.6	163.4	167.9	167.5	161.4	175.0	172.6
72.5°	1017.1	301.6	124.5	143.3	149.1	153.5	161.7	154.6	148.8	156.6	149.4
75°	710.7	189.0	98.3	113.3	124.2	142.6	154.2	139.9	131.4	129.0	126.9
77.5°	425.5	120.8	77.4	86.3	96.9	129.6	144.7	124.5	111.6	110.2	106.1
80°	196.2	78.8	59.0	64.5	68.9	111.2	131.7	106.4	90.8	89.4	84.6
82.5°	88.7	51.9	44.0	46.1	46.4	88.4	111.2	84.3	69.3	112.2	97.2
85°	41.3	33.4	28.7	27.3	27.6	59.0	80.9	58.0	78.8	61.4	46.7
87.5°	17.7	17.1	14.7	11.6	10.6	12.6	31.0	24.2	34.5	13.6	9.2
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)