

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: P672160

Luminaire Tested: **CCP-SA-2A-830-U-T2R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672160
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2A-830-U-T2R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T2R distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

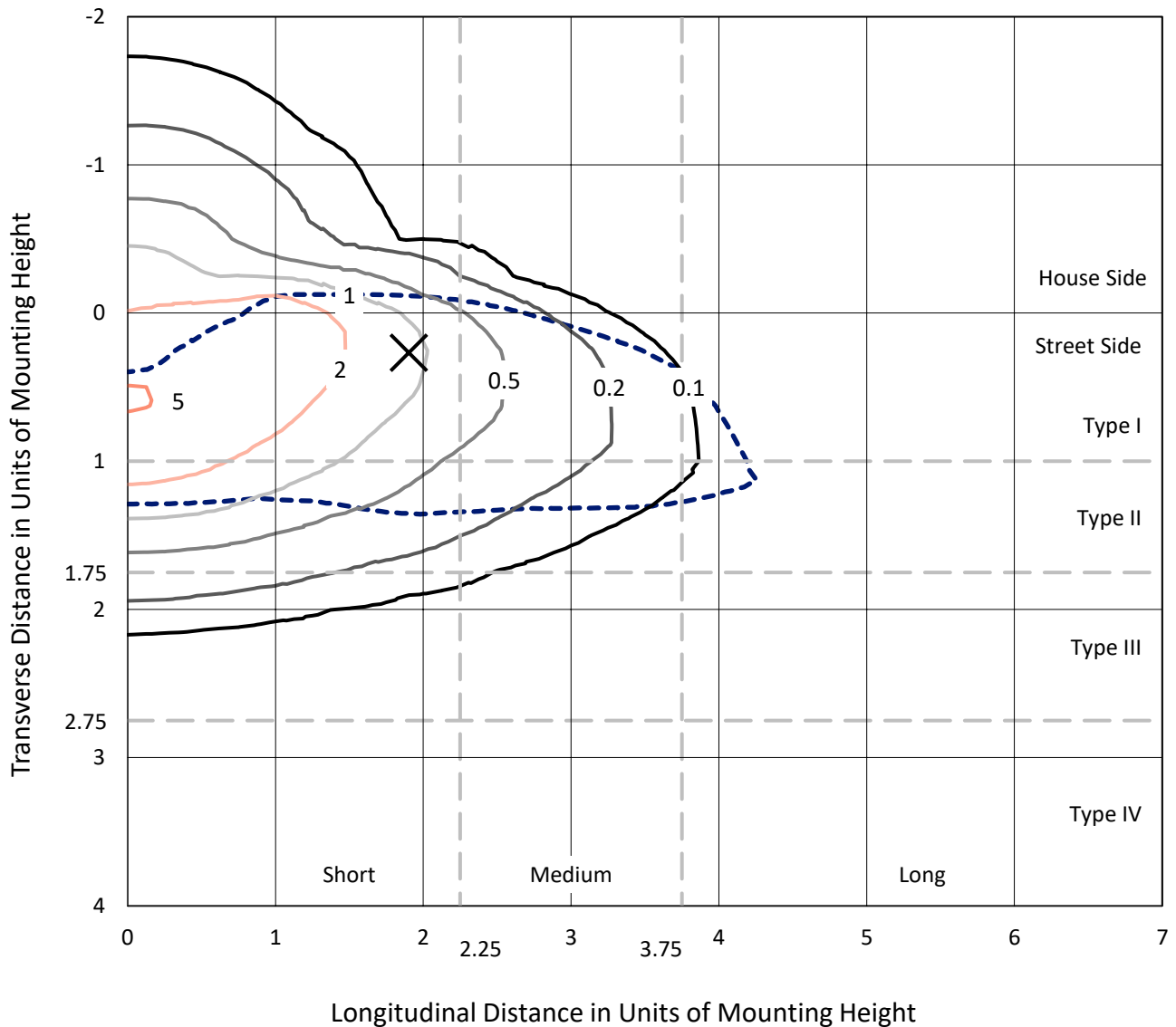
Lumens per Lamp: N/A
Luminaire Lumens: 4416.3 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

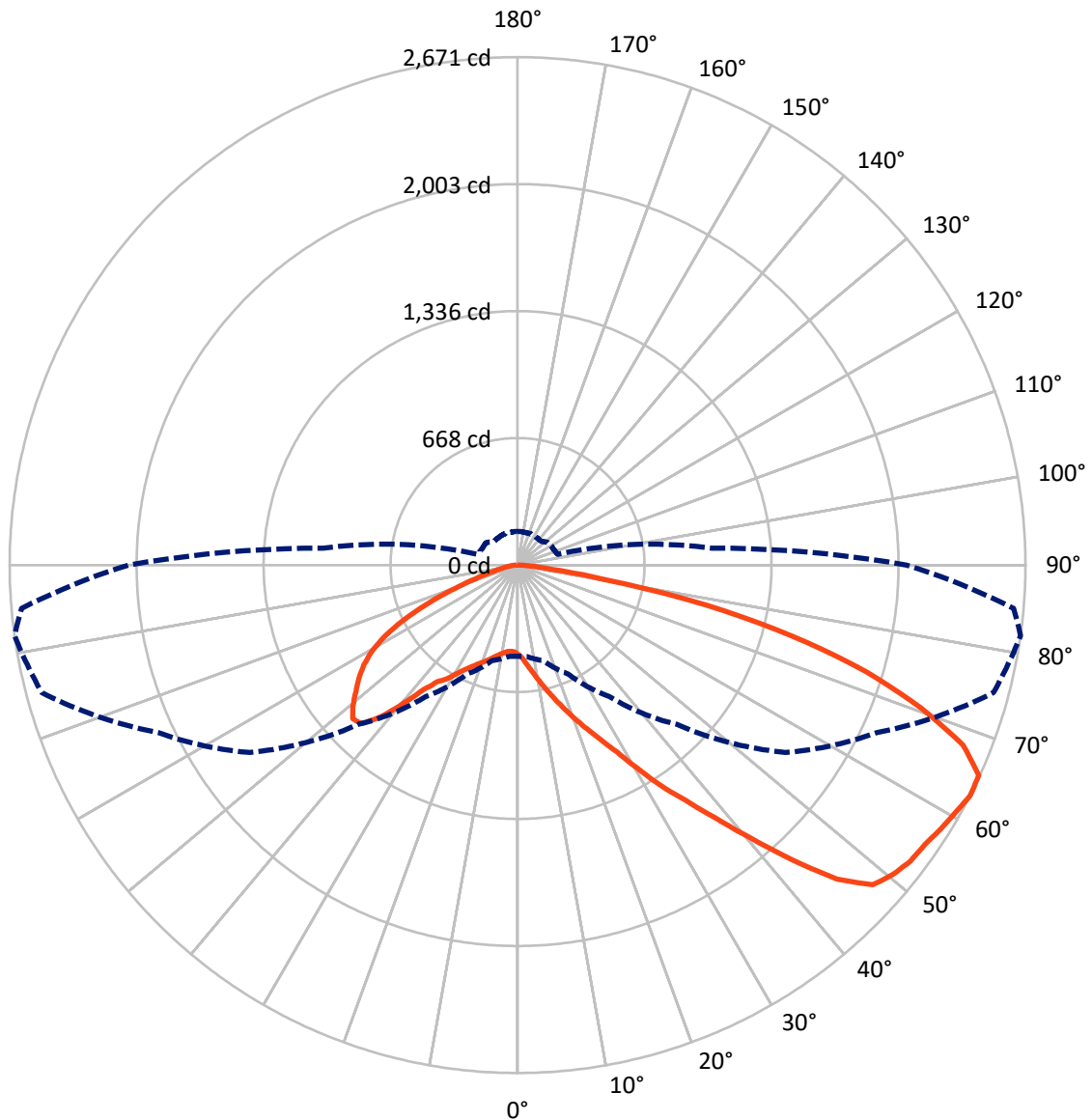
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.2 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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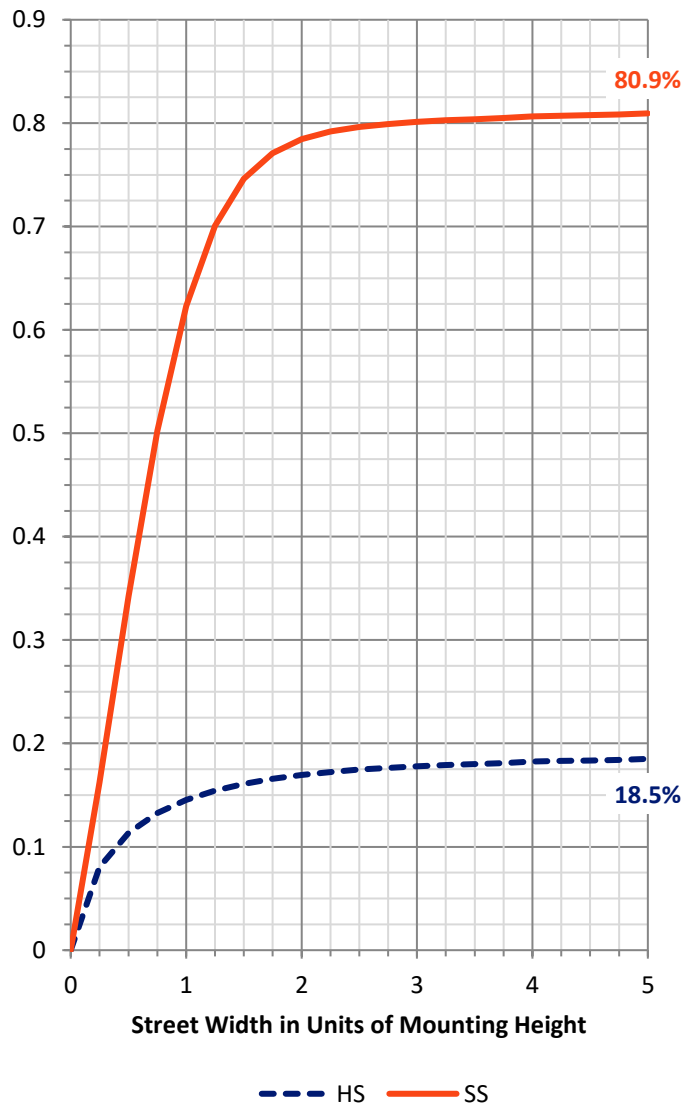
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	832.0	0.0	832.0
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	3584.3	0.0	3584.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	4416.3	0.0	4416.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.0	1.2
10°-20°	196.0	4.4
20°-30°	405.9	9.2
30°-40°	689.0	15.6
40°-50°	938.2	21.2
50°-60°	949.7	21.5
60°-70°	748.5	16.9
70°-80°	368.7	8.3
80°-90°	68.2	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°	4416.3	100.0
0°-180°	4416.3	100.0



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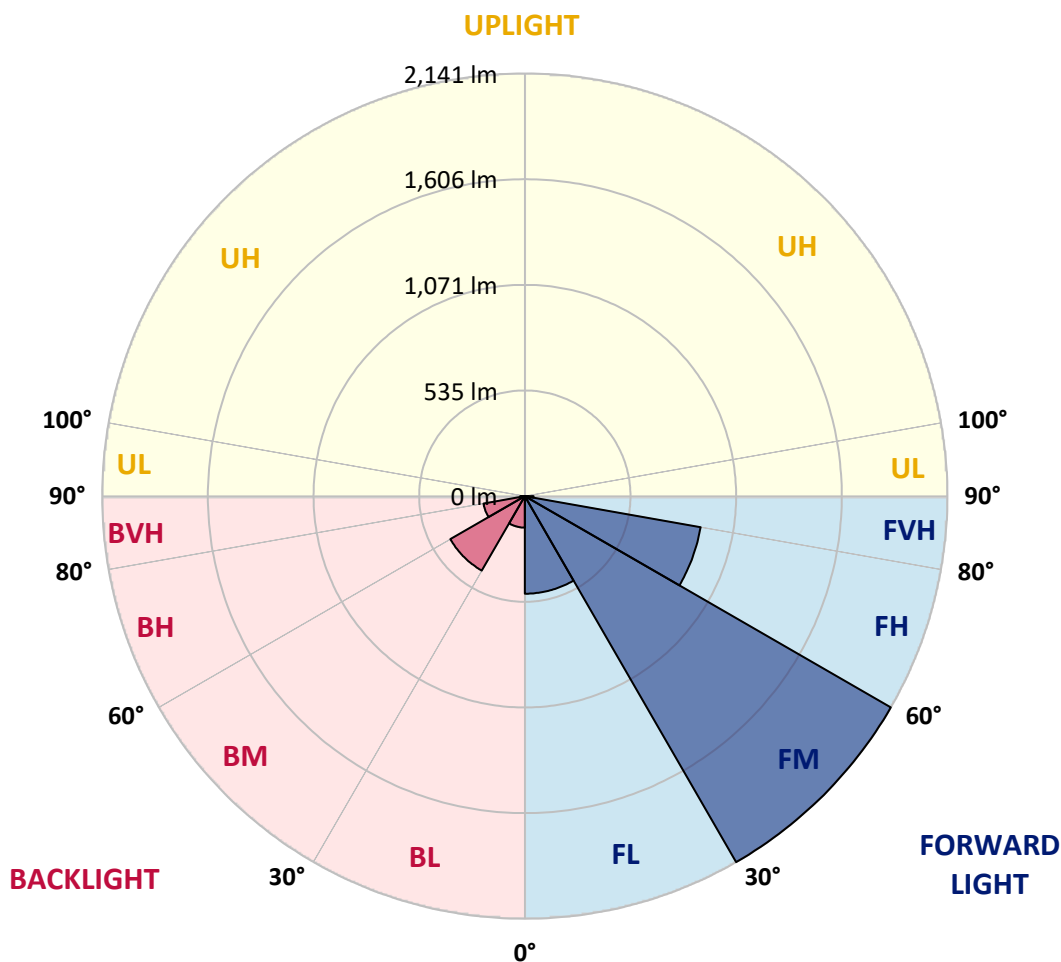
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	494.3	11.2			
FM (30°-60°)	2141.2	48.5			
FH (60°-80°)	904.5	20.5			G1/1800
FVH (80°-90°)	44.3	1.0			G1/100
BL (0°-30°)	159.6	3.6	B1/500		
BM (30°-60°)	435.8	9.9	B1/1000		
BH (60°-80°)	212.7	4.8	B1/500		G1/500
BVH (80°-90°)	23.9	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°	469.6	469.6	469.6	469.6	469.6	469.6	469.6	469.6	469.6	469.6	469.6
2.5°	625.4	615.9	610.8	605.1	589.2	579.0	559.9	537.7	511.9	490.0	485.9
5°	757.4	747.9	749.1	735.1	711.9	690.3	654.7	612.7	563.8	526.2	513.2
7.5°	850.6	840.1	842.6	836.9	818.1	794.3	749.1	695.1	623.5	567.9	546.9
10°	912.9	914.2	916.1	913.8	901.8	884.9	840.1	780.3	691.3	617.2	588.6
12.5°	983.5	987.0	986.3	987.3	980.9	967.6	923.7	867.4	763.4	670.3	633.1
15°	1073.5	1070.0	1072.8	1077.0	1070.0	1055.3	1016.6	949.8	839.1	729.4	683.3
17.5°	1172.0	1164.7	1172.4	1168.2	1163.1	1153.6	1111.0	1039.8	917.3	793.3	739.3
20°	1257.3	1252.5	1256.6	1257.3	1258.2	1256.3	1212.4	1136.7	999.4	863.0	799.7
22.5°	1353.0	1350.7	1350.1	1350.4	1351.4	1353.6	1323.7	1242.9	1090.3	936.1	864.9
25°	1486.8	1484.6	1470.0	1453.8	1444.2	1451.2	1435.6	1363.5	1190.8	1018.1	936.4
27.5°	1636.9	1633.4	1614.0	1573.0	1542.5	1547.6	1546.0	1496.4	1306.5	1112.3	1022.3
30°	1792.7	1784.1	1757.4	1699.9	1651.9	1643.0	1647.4	1630.9	1452.2	1237.2	1141.8
32.5°	1931.7	1915.8	1880.5	1822.3	1765.1	1739.3	1739.9	1747.2	1610.5	1382.9	1267.1
35°	2016.6	2006.1	1979.7	1920.9	1856.9	1839.8	1835.0	1871.6	1755.8	1517.7	1379.4
37.5°	2062.4	2052.2	2023.9	1976.5	1928.2	1921.2	1930.1	1986.7	1920.9	1685.9	1532.0
40°	2054.1	2043.3	2024.8	1991.8	1960.0	1965.4	2004.8	2092.2	2101.1	1887.2	1749.5
42.5°	1986.0	1974.6	1973.0	1970.8	1955.8	1979.7	2050.9	2169.5	2266.8	2119.6	2012.8
45°	1865.9	1858.9	1867.1	1905.3	1924.0	1970.1	2072.5	2207.0	2412.4	2355.8	2261.7
47.5°	1713.5	1709.4	1728.2	1788.6	1849.3	1940.9	2086.8	2217.2	2512.6	2512.6	2424.8
50°	1543.1	1541.5	1566.3	1654.1	1749.2	1887.2	2085.3	2226.7	2556.5	2558.7	2482.4
52.5°	1305.3	1313.5	1379.7	1495.4	1624.5	1802.9	2063.0	2253.5	2581.3	2586.4	2520.9
55°	1031.2	1039.1	1139.0	1294.8	1460.1	1700.5	1996.5	2245.5	2586.1	2597.5	2542.8
57.5°	823.2	824.8	887.1	1072.2	1277.0	1569.5	1919.9	2192.7	2572.1	2622.0	2576.5
60°	644.2	649.3	690.9	837.5	1064.6	1400.7	1834.4	2140.6	2580.0	2645.2	2607.0
62.5°	479.8	481.1	519.9	633.4	845.8	1185.4	1718.3	2084.9	2591.1	2671.3	2619.4
65°	312.6	312.2	349.8	452.2	631.8	953.0	1536.1	1997.8	2592.1	2665.5	2562.5
67.5°	198.7	200.0	216.2	280.8	422.9	719.2	1288.1	1836.0	2546.9	2526.9	2355.2
70°	161.2	161.5	166.6	183.5	257.6	491.6	968.2	1582.9	2404.2	2250.6	2047.1
72.5°	143.7	144.0	146.6	148.5	171.7	295.4	635.3	1285.2	2150.4	1918.3	1698.3
75°	129.1	129.1	130.7	128.8	140.9	185.4	360.6	966.3	1771.1	1493.8	1283.0
77.5°	113.2	112.9	112.9	111.9	121.8	135.5	180.6	674.4	1275.7	1018.8	832.1
80°	96.0	95.4	96.3	95.7	105.2	102.7	105.2	416.2	691.6	467.1	354.2
82.5°	74.7	74.7	77.6	78.2	86.8	74.4	74.1	197.5	262.6	174.6	130.7
85°	39.1	43.9	59.1	61.7	65.5	46.7	54.4	92.2	105.2	66.8	47.7
87.5°	11.8	12.4	36.2	40.7	40.4	23.5	33.4	44.5	49.3	29.6	19.4
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°	469.6	469.6	469.6	469.6	469.6	469.6	469.6	469.6	469.6	469.6	469.6
2.5°	475.4	464.2	440.7	419.7	403.8	388.6	378.1	372.7	365.7	366.6	364.4
5°	490.0	467.1	425.4	391.7	369.2	352.0	341.5	336.1	331.0	328.5	330.4
7.5°	511.9	476.3	418.1	377.4	353.9	339.3	333.6	332.0	330.7	329.7	331.3
10°	540.2	492.5	416.9	372.3	350.7	341.8	339.6	338.6	337.4	336.1	337.0
12.5°	569.2	510.3	421.3	373.6	355.8	349.1	346.3	345.0	341.8	340.2	340.5
15°	605.4	532.0	427.4	378.7	362.5	353.9	350.1	346.6	341.5	339.3	340.2
17.5°	644.2	557.7	435.6	383.5	365.0	354.5	346.9	341.8	336.7	333.6	333.9
20°	688.1	583.2	442.9	385.1	363.8	349.1	339.9	333.9	327.2	323.7	322.7
22.5°	733.6	609.9	448.7	383.8	356.8	339.9	329.4	322.1	314.2	308.7	309.1
25°	788.9	646.1	453.4	379.3	347.5	327.8	316.1	306.8	298.6	293.5	293.8
27.5°	855.3	687.1	459.1	372.3	336.4	314.8	301.1	291.9	283.9	279.2	278.5
30°	944.1	740.6	465.5	363.8	322.4	300.5	287.1	277.6	270.0	265.5	265.5
32.5°	1043.9	805.7	470.0	353.6	306.8	285.2	273.1	265.5	259.8	253.7	253.1
35°	1130.7	856.3	483.6	345.6	293.2	270.9	262.6	257.2	248.7	242.9	242.0
37.5°	1258.2	945.3	524.0	343.4	276.6	259.8	258.2	248.0	238.2	227.3	226.4
40°	1463.6	1099.5	571.1	332.6	259.5	253.7	252.2	238.5	215.3	208.6	207.3
42.5°	1725.0	1285.2	576.2	301.1	247.4	248.7	243.9	217.2	207.0	201.9	200.6
45°	1960.9	1436.0	547.2	269.0	238.5	241.0	231.2	209.2	203.5	198.7	197.5
47.5°	2093.5	1482.4	492.5	244.8	231.8	234.3	210.8	205.4	199.7	194.9	193.6
50°	2130.7	1442.0	428.9	230.8	226.7	227.7	205.4	202.2	197.1	193.3	191.4
52.5°	2138.0	1381.6	370.1	222.6	222.9	214.3	200.6	198.1	194.9	188.9	186.6
55°	2141.2	1327.2	317.3	217.5	220.4	197.1	195.6	193.6	191.1	184.7	183.5
57.5°	2149.5	1257.6	276.0	213.7	217.2	189.2	189.8	188.6	185.4	182.5	181.9
60°	2126.0	1161.2	244.2	209.9	212.7	182.5	183.2	183.8	180.9	180.3	180.0
62.5°	2047.1	1024.5	217.2	204.8	203.5	175.8	175.8	178.4	175.8	176.8	176.8
65°	1884.6	850.3	193.0	195.2	189.2	168.5	168.2	172.7	168.8	173.0	173.3
67.5°	1607.7	643.6	168.2	180.3	174.2	160.9	162.2	165.7	160.6	169.2	169.2
70°	1272.5	437.8	142.5	159.3	159.0	152.3	156.4	156.1	150.4	163.1	160.9
72.5°	947.9	281.1	116.1	133.5	139.0	143.1	150.7	144.0	138.6	145.9	139.3
75°	662.3	176.2	91.6	105.6	115.7	132.9	143.7	130.4	122.4	120.2	118.3
77.5°	396.5	112.6	72.2	80.4	90.3	120.8	134.8	116.1	104.0	102.7	98.9
80°	182.8	73.5	55.0	60.1	64.2	103.7	122.7	99.2	84.6	83.3	78.9
82.5°	82.7	48.3	41.0	42.9	43.2	82.4	103.7	78.5	64.5	104.6	90.6
85°	38.5	31.2	26.7	25.4	25.8	55.0	75.4	54.1	73.5	57.2	43.6
87.5°	16.5	15.9	13.7	10.8	9.9	11.8	28.9	22.6	32.1	12.7	8.6
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)