

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: P472340

Luminaire Tested: **CCP-VA-4-830-U-T3**

Issue Date: 01/27/2021



Test Information

Test Method: LM-79-08
Report Number: P472340
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-VA-4-830-U-T3
Description: INVUE CLEARCURVE POLE MOUNT Wave Stream LUMINAIRE WITH T3
DISTRIBUTION LENS
Light Source: 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

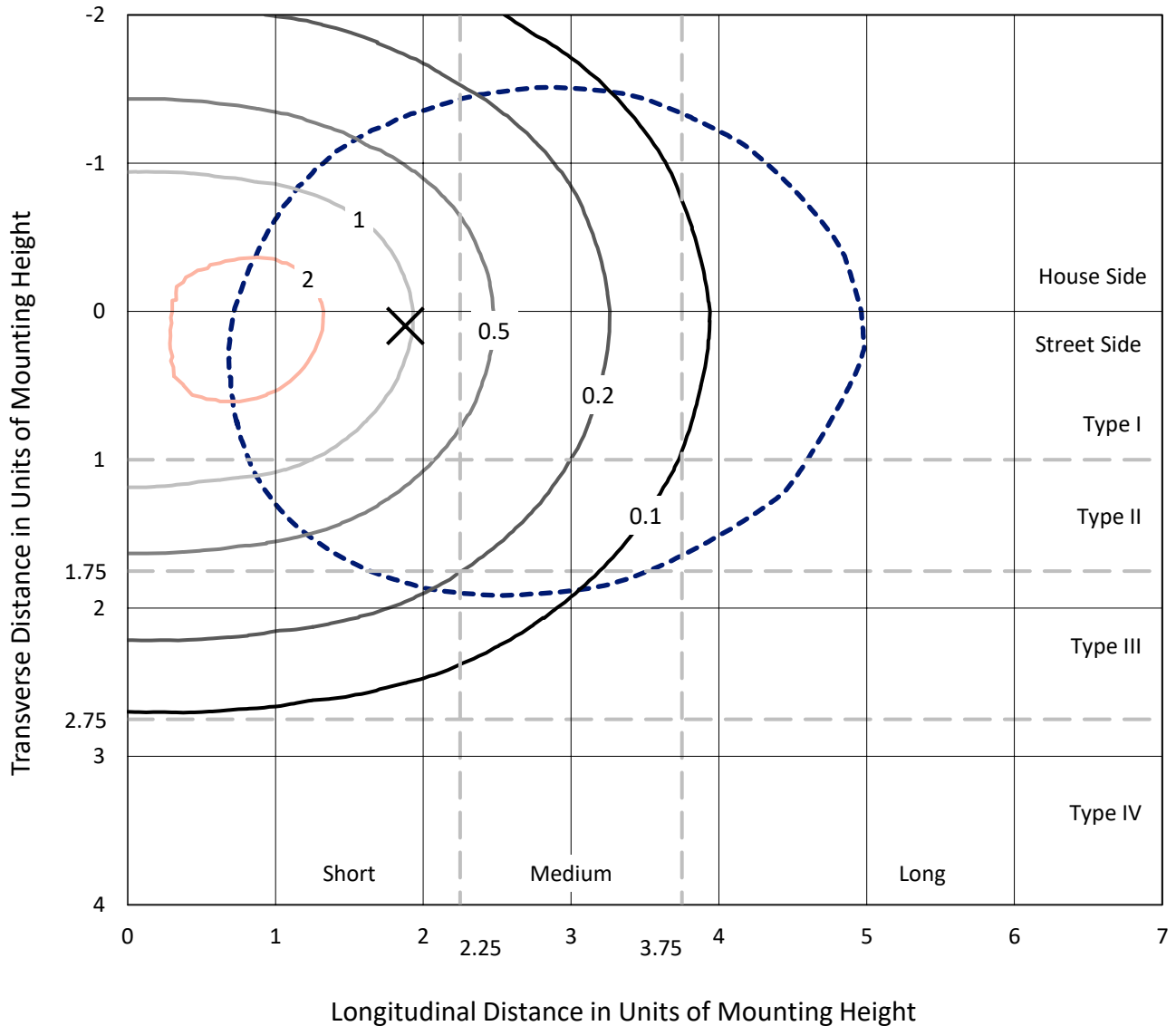
Lumens per Lamp: N/A
Luminaire Lumens: 5283.9 lumens
Efficiency: N/A
Efficacy: 81.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 64.6
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

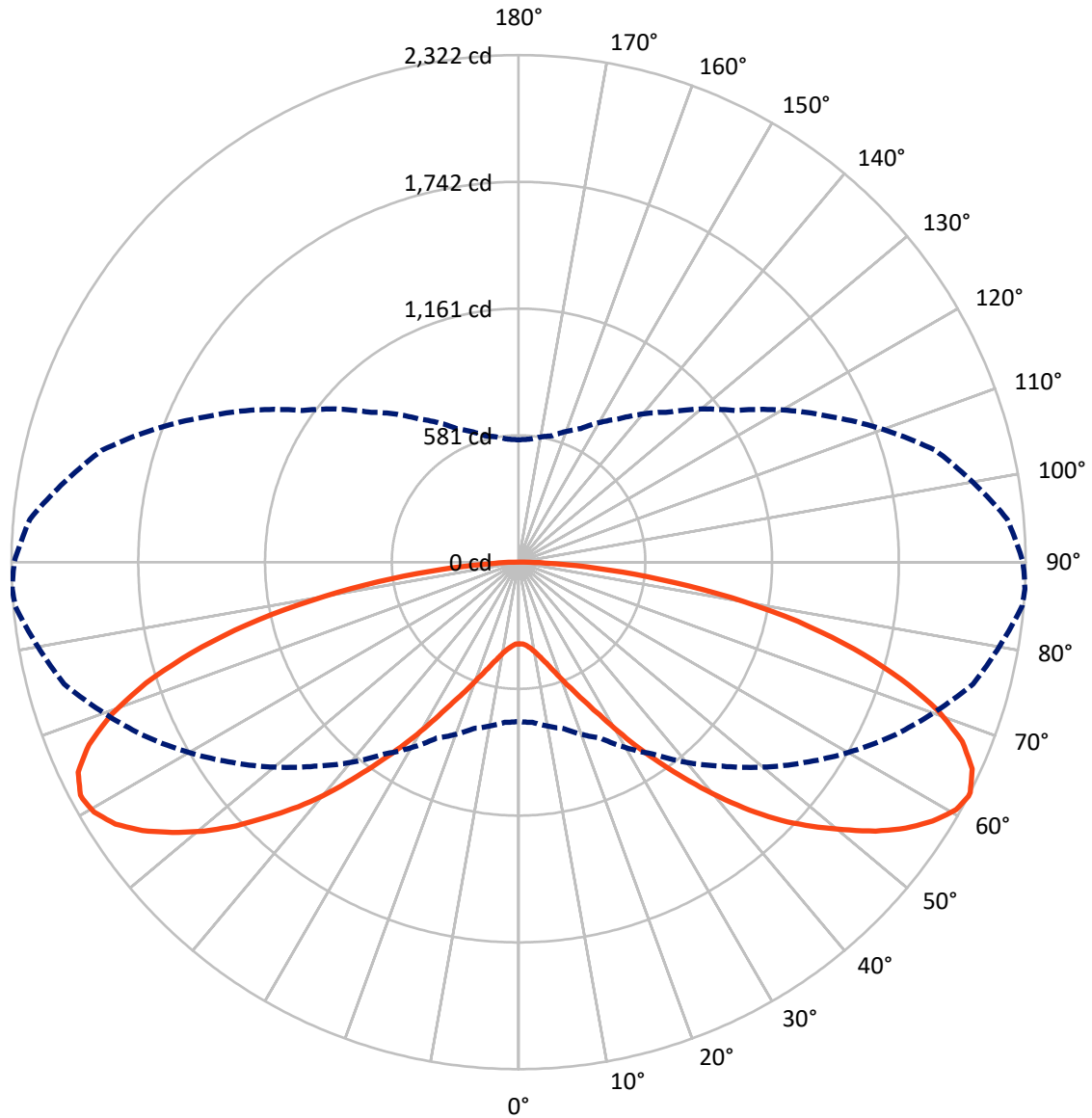
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 87-Deg Lateral - - - Horizontal Cone Through 62-Deg Vertical

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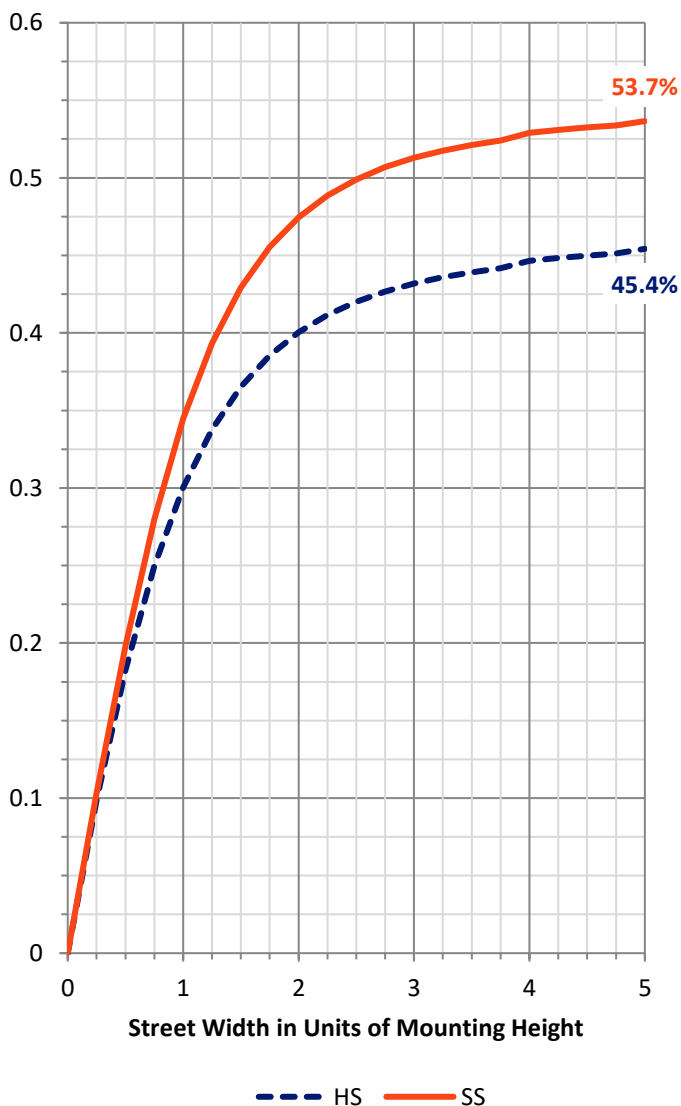
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2432.8	0.0	2432.8
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	2851.1	0.0	2851.1
	% Fixture	54.0	0.0	54.0
Total	Lumens	5283.9	0.0	5283.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.6	0.7
10°-20°	132.8	2.5
20°-30°	283.9	5.4
30°-40°	523.2	9.9
40°-50°	834.4	15.8
50°-60°	1134.7	21.5
60°-70°	1229.3	23.3
70°-80°	878.4	16.6
80°-90°	229.6	4.3
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°	5283.9	100.0
0°-180°	5283.9	100.0



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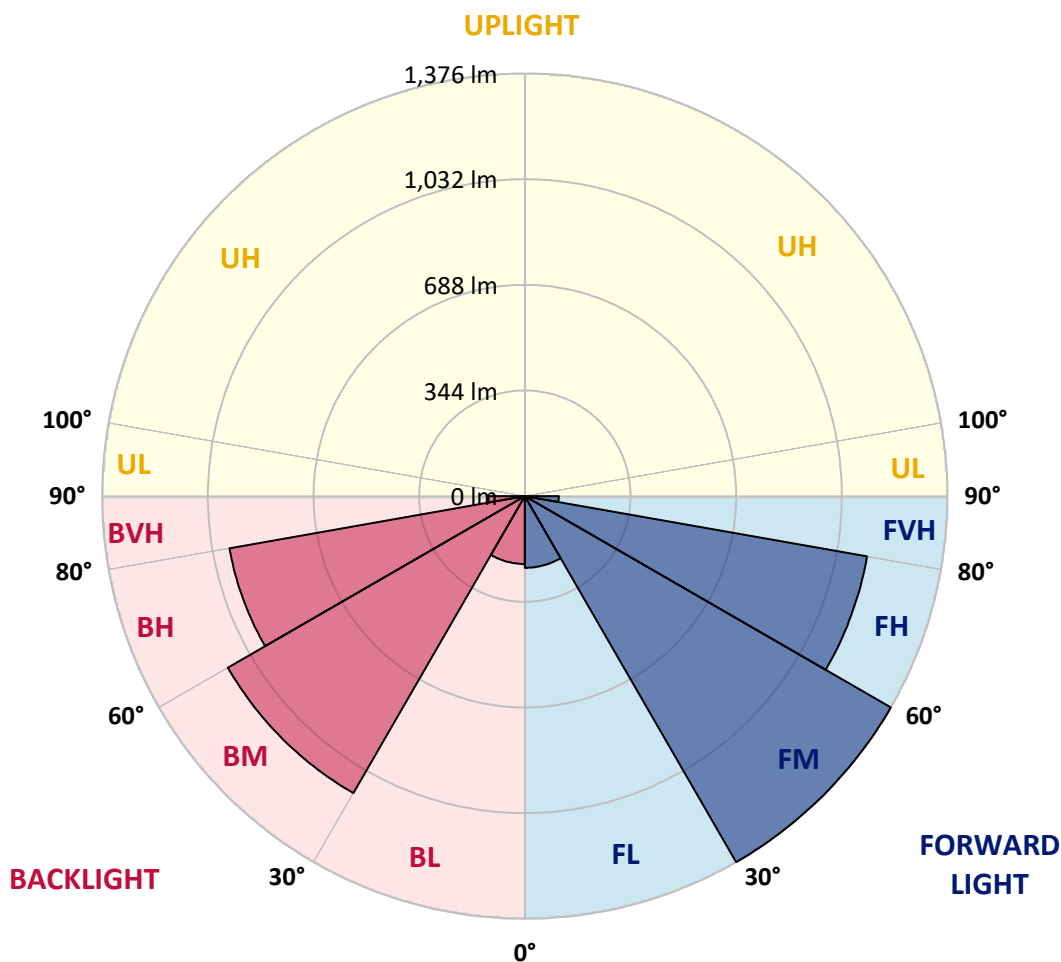
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	233.3	4.4			
FM (30°-60°)	1375.9	26.0			
FH (60°-80°)	1131.3	21.4			G1/1800
FVH (80°-90°)	110.6	2.1			G2/225
BL (0°-30°)	221.0	4.2	B1/500		
BM (30°-60°)	1116.4	21.1	B2/2500		
BH (60°-80°)	976.5	18.5	B2/1000		G2/1000
BVH (80°-90°)	119.0	2.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9
2.5°	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	374.8	375.6	375.6
5°	377.4	376.5	376.5	377.4	378.2	379.1	380.8	381.6	383.3	385.0	384.2
7.5°	385.0	385.0	385.0	385.9	388.4	390.1	392.7	395.2	397.8	399.5	398.6
10°	396.9	396.9	396.9	398.6	401.2	406.3	410.6	414.8	417.4	419.1	419.9
12.5°	409.7	409.7	411.4	414.8	419.9	426.8	434.4	440.4	444.6	446.3	447.2
15°	427.6	428.5	431.9	435.3	442.1	452.3	465.1	473.6	477.9	481.3	480.4
17.5°	454.9	454.0	456.6	464.2	471.9	486.4	501.7	516.2	524.7	524.7	524.7
20°	485.5	484.7	486.4	492.3	505.1	524.7	548.6	568.2	577.5	575.8	577.5
22.5°	519.6	519.6	521.3	526.4	539.2	567.3	600.5	629.5	642.3	638.0	636.3
25°	557.1	557.1	559.6	563.9	581.8	615.9	660.2	701.9	714.7	710.4	708.7
27.5°	600.5	597.1	602.2	606.5	628.6	673.8	731.7	784.5	812.6	798.1	793.0
30°	646.5	644.0	644.8	653.3	678.9	736.8	805.8	876.5	915.7	906.3	898.7
32.5°	686.6	688.3	690.8	705.3	734.3	804.1	884.2	977.0	1021.3	1018.8	1017.1
35°	731.7	731.7	736.8	750.4	793.0	875.7	972.8	1077.5	1143.1	1145.7	1140.6
37.5°	767.5	767.5	775.1	793.0	843.3	941.3	1060.5	1184.0	1263.2	1276.9	1272.6
40°	799.0	797.3	805.8	832.2	891.0	1011.1	1146.5	1289.6	1396.1	1419.1	1413.2
42.5°	817.7	819.4	831.4	864.6	937.0	1072.4	1230.9	1389.3	1513.7	1552.9	1552.9
45°	831.4	833.1	851.0	890.1	978.7	1132.9	1307.5	1491.5	1628.7	1685.7	1688.3
47.5°	837.3	839.9	862.0	909.7	1013.7	1188.3	1381.6	1583.5	1731.7	1812.7	1807.5
50°	837.3	840.7	867.1	924.2	1045.2	1235.1	1451.5	1671.3	1836.5	1926.8	1925.9
52.5°	832.2	836.5	868.8	935.3	1071.6	1280.3	1513.7	1746.2	1937.0	2043.5	2046.9
55°	822.0	827.1	864.6	942.1	1092.0	1316.0	1563.9	1816.1	2023.9	2144.0	2151.7
57.5°	801.6	806.7	849.3	936.1	1099.7	1334.8	1600.6	1865.5	2094.6	2235.2	2236.9
60°	767.5	773.4	819.4	916.5	1092.0	1335.6	1609.9	1887.6	2142.3	2296.5	2302.4
62°	730.0	736.8	788.8	889.3	1072.4	1322.0	1599.7	1886.8	2155.1	2314.4	2322.0
62.5°	720.6	726.6	779.4	879.9	1064.8	1315.2	1593.7	1882.5	2153.4	2315.2	2321.2
65°	662.7	668.7	722.3	828.8	1017.9	1273.5	1550.3	1845.0	2122.7	2281.2	2282.9
67.5°	598.8	604.8	658.5	759.0	950.6	1203.6	1477.0	1770.9	2040.9	2178.1	2190.9
70°	524.7	533.2	582.6	682.3	862.0	1103.1	1361.2	1653.4	1910.6	2027.3	2039.2
72.5°	451.5	457.4	496.6	584.3	747.0	971.1	1211.3	1475.3	1709.6	1820.3	1830.5
75°	366.3	371.4	409.7	482.1	618.4	809.2	1035.8	1266.6	1479.6	1579.3	1586.9
77.5°	288.8	290.5	317.7	375.6	480.4	634.6	822.0	1004.3	1197.6	1287.9	1308.4
80°	203.6	212.1	230.8	270.9	337.3	454.9	590.3	746.2	881.6	983.0	989.8
82.5°	132.0	133.7	145.7	160.1	207.8	287.1	375.6	471.9	592.9	658.5	653.3
85°	69.0	69.0	73.3	77.5	93.7	128.6	181.4	248.7	319.4	368.8	362.0
87.5°	11.9	11.1	11.9	11.1	14.5	20.4	38.3	62.2	93.7	110.7	121.8
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°	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9	373.9
2.5°	375.6	375.6	376.5	378.2	378.2	379.1	379.9	379.9	380.8	381.6	381.6
5°	385.9	385.9	386.7	388.4	389.3	389.3	390.1	391.0	391.0	391.0	391.8
7.5°	399.5	400.4	401.2	402.1	402.9	402.9	405.5	404.6	404.6	404.6	404.6
10°	419.1	420.8	420.8	420.8	420.8	419.9	420.8	419.9	418.2	418.2	417.4
12.5°	448.1	448.1	446.3	444.6	442.1	441.2	440.4	437.8	434.4	432.7	432.7
15°	481.3	479.6	476.2	472.8	468.5	465.1	459.1	455.7	451.5	449.8	449.8
17.5°	523.9	521.3	511.9	505.1	494.9	487.2	480.4	473.6	468.5	466.8	465.9
20°	572.4	566.5	552.8	537.5	523.9	511.9	499.2	490.6	485.5	481.3	480.4
22.5°	633.7	625.2	601.4	577.5	552.8	535.8	519.6	507.7	498.3	494.1	492.3
25°	700.2	687.4	656.7	621.0	586.9	560.5	540.0	523.9	512.8	506.0	504.3
27.5°	784.5	765.8	720.6	667.0	621.8	588.6	560.5	541.8	527.3	517.0	515.3
30°	883.3	863.7	788.8	718.1	661.0	614.2	583.5	558.8	540.9	529.0	526.4
32.5°	1000.9	965.1	879.1	779.4	701.0	644.0	604.8	575.8	553.7	540.0	536.6
35°	1120.1	1083.5	970.2	844.1	743.6	674.6	627.8	592.9	568.2	551.1	549.4
37.5°	1253.9	1209.6	1076.7	917.4	789.6	707.0	649.1	609.0	579.2	561.3	559.6
40°	1397.8	1352.7	1190.8	1001.7	844.1	738.5	669.5	624.4	591.2	571.6	569.0
42.5°	1539.2	1485.6	1306.7	1086.1	899.5	773.4	693.4	640.6	601.4	580.9	577.5
45°	1661.9	1615.0	1424.2	1183.2	963.4	809.2	717.2	655.9	612.5	589.5	586.0
47.5°	1800.7	1750.5	1552.9	1272.6	1024.7	850.1	740.2	669.5	621.8	597.1	594.6
50°	1923.4	1878.2	1667.0	1355.2	1083.5	888.4	761.5	682.3	629.5	603.1	599.7
52.5°	2035.0	1994.9	1771.8	1432.7	1133.8	924.2	781.1	691.7	634.6	605.6	601.4
55°	2147.4	2095.5	1862.9	1500.9	1173.8	952.3	797.3	695.9	633.7	603.9	599.7
57.5°	2231.7	2182.3	1929.4	1549.4	1203.6	971.1	806.7	695.1	628.6	596.3	591.2
60°	2288.8	2234.3	1968.5	1573.3	1213.8	977.0	806.7	687.4	615.9	580.9	575.8
62°	2310.1	2247.1	1976.2	1576.7	1209.6	971.1	800.7	674.6	598.8	564.8	559.6
62.5°	2311.0	2246.2	1973.6	1574.1	1207.0	968.5	797.3	670.4	594.6	559.6	554.5
65°	2273.5	2208.7	1943.0	1547.7	1178.1	945.5	773.4	645.7	564.8	530.7	525.6
67.5°	2166.2	2116.8	1869.7	1486.4	1128.7	902.9	738.5	609.9	529.8	494.1	491.5
70°	2017.1	1971.9	1750.5	1393.6	1057.1	841.6	686.6	562.2	485.5	453.2	447.2
72.5°	1829.7	1770.9	1581.0	1269.2	954.0	757.3	618.4	502.6	434.4	405.5	402.1
75°	1597.1	1526.4	1368.0	1104.8	830.5	655.9	539.2	436.1	375.6	350.9	353.5
77.5°	1300.7	1267.5	1105.7	880.8	676.3	542.6	442.1	369.7	317.7	297.3	295.6
80°	982.1	950.6	837.3	668.7	511.1	410.6	342.4	291.3	255.5	237.7	236.8
82.5°	666.1	636.3	550.3	448.9	348.4	290.5	247.9	214.7	192.5	184.0	184.0
85°	366.3	340.7	291.3	242.8	196.8	166.1	160.1	143.1	137.1	135.4	137.1
87.5°	114.1	113.3	96.3	79.2	69.0	69.8	63.0	64.7	61.3	60.5	64.7
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)