

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: P472312

Luminaire Tested: **CCW-VA-4-727-U-T3**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472312
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-4-727-U-T3
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS
Light Source: 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5307.7 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

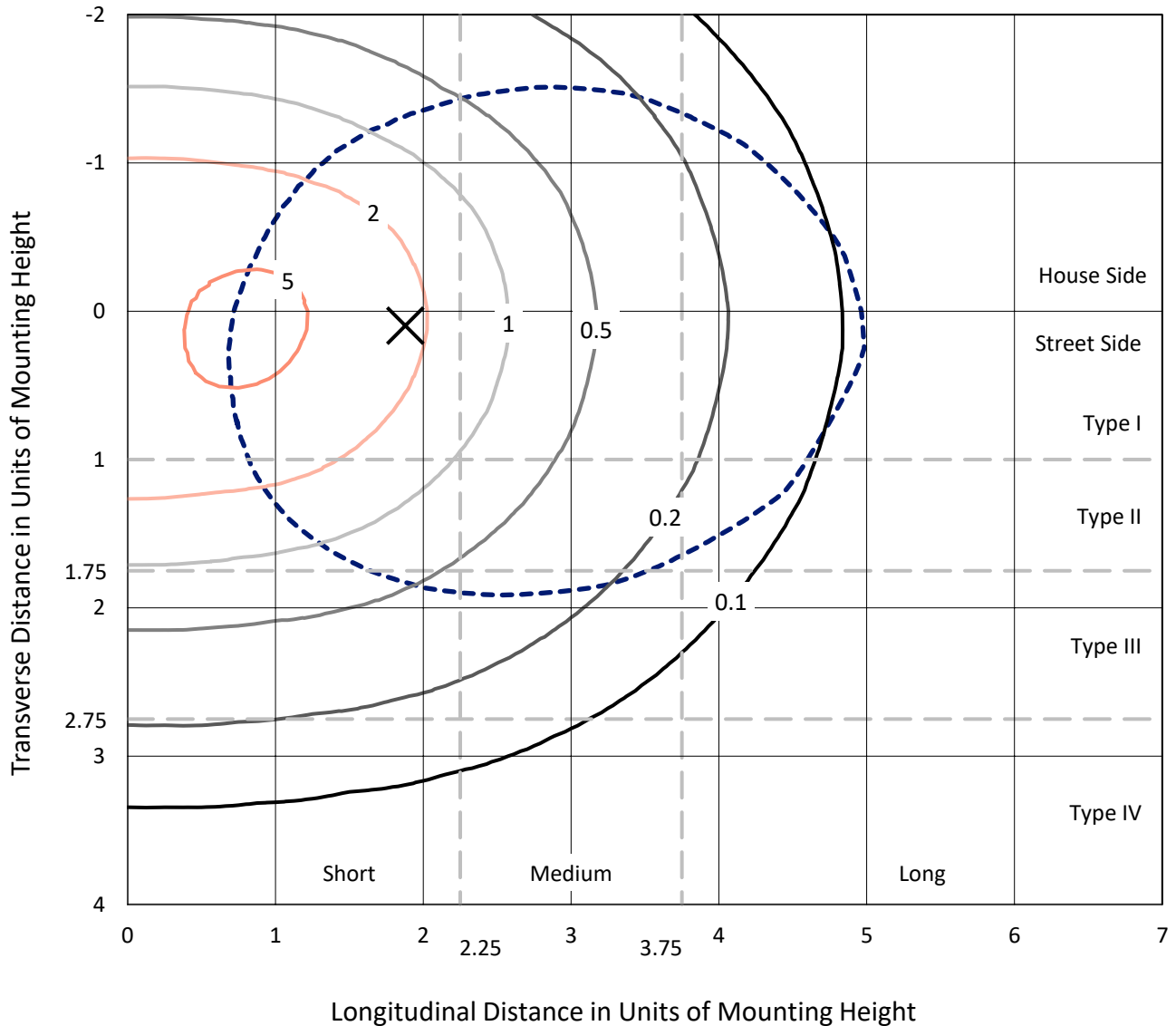
Input Watts (W): 64.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

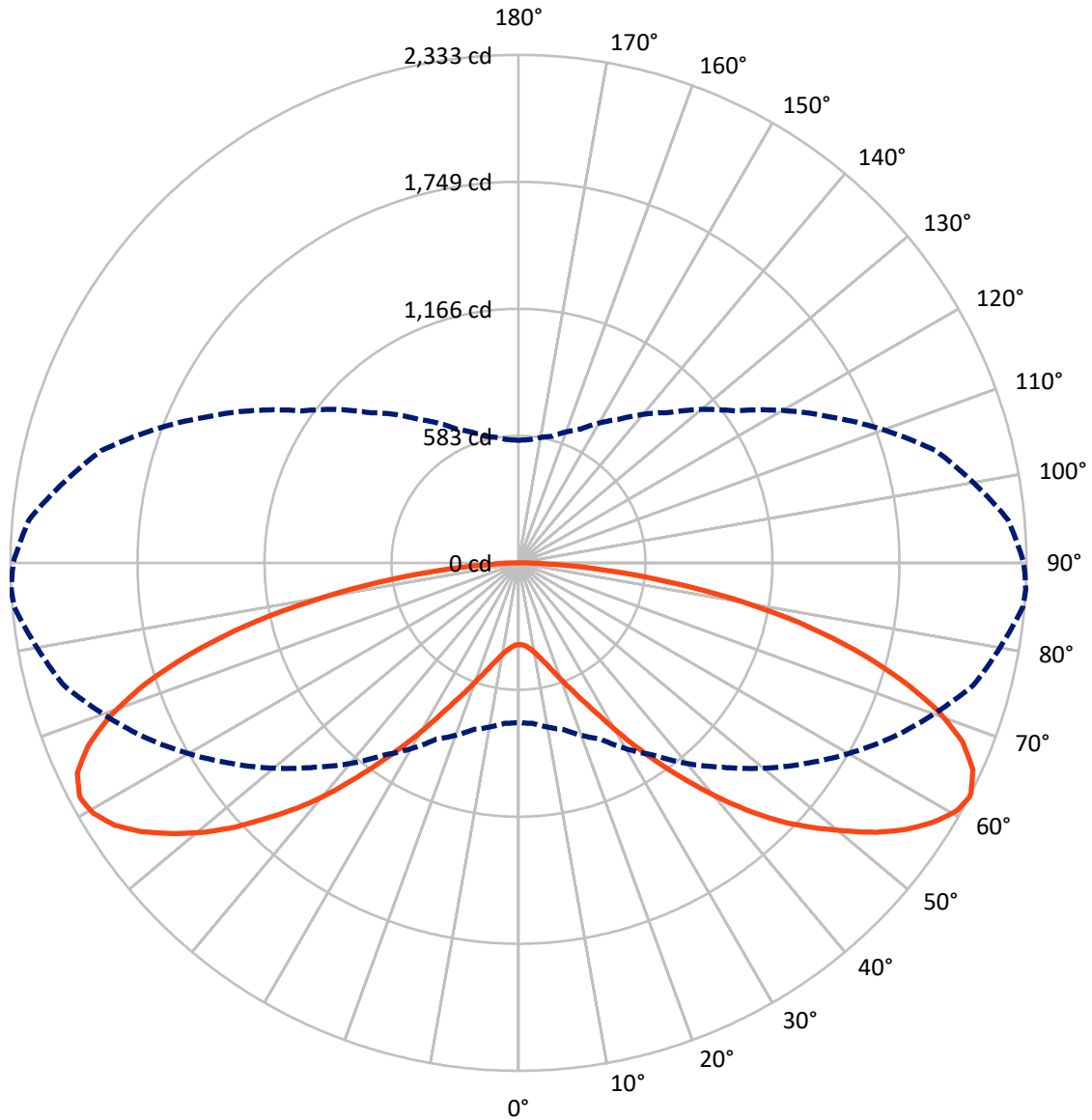
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.4 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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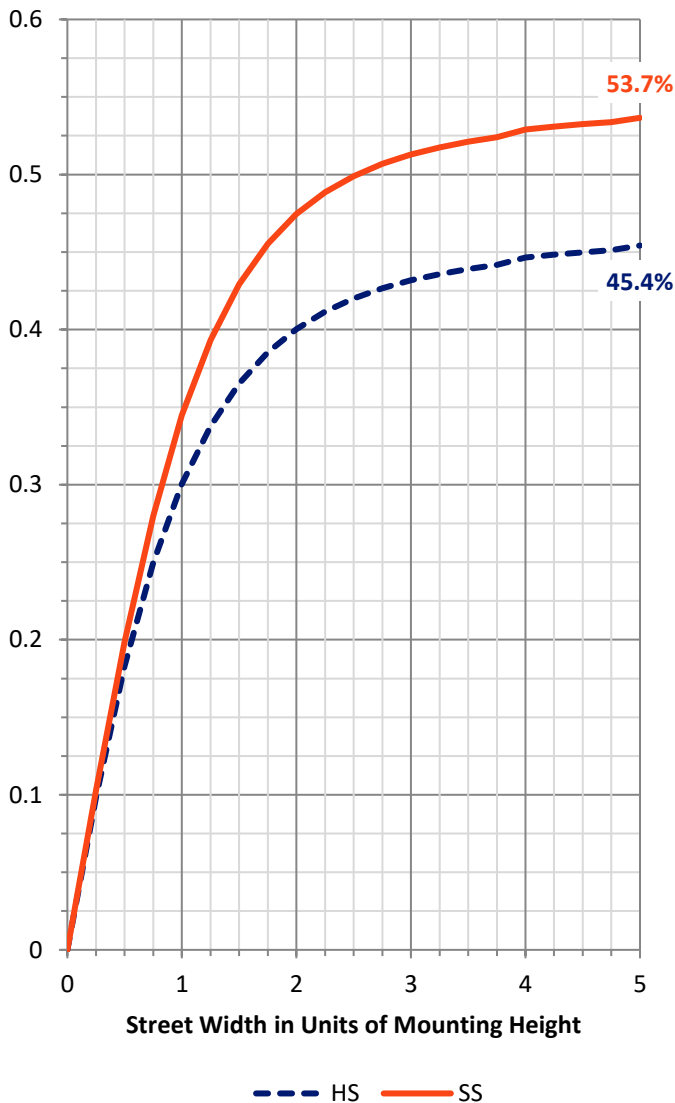
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2443.8	0.0	2443.8
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	2863.9	0.0	2863.9
	% Fixture	54.0	0.0	54.0
Total	Lumens	5307.7	0.0	5307.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.8	0.7
10°-20°	133.4	2.5
20°-30°	285.2	5.4
30°-40°	525.6	9.9
40°-50°	838.2	15.8
50°-60°	1139.8	21.5
60°-70°	1234.9	23.3
70°-80°	882.4	16.6
80°-90°	230.6	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°	5307.7	100.0
0°-180°	5307.7	100.0

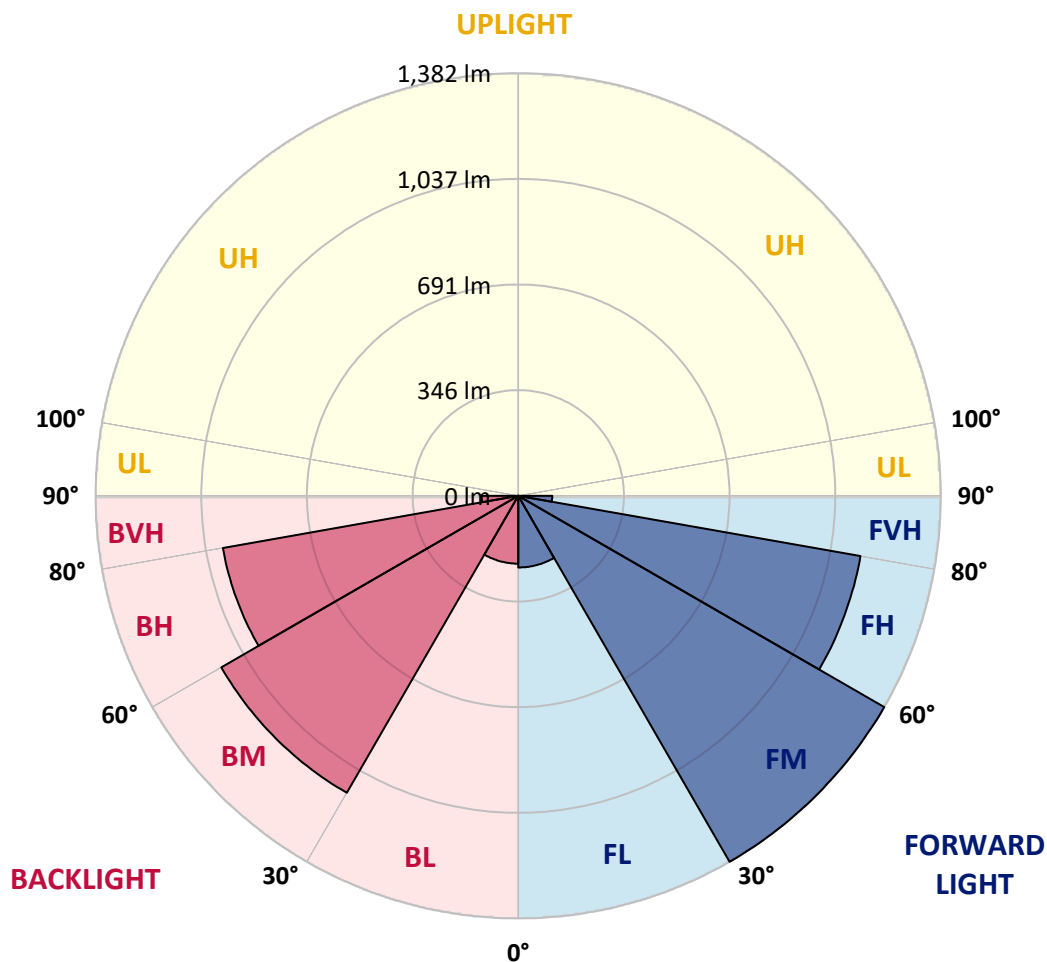


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	234.4	4.4			
FM (30°-60°)	1382.1	26.0			
FH (60°-80°)	1136.4	21.4			G1/1800
FVH (80°-90°)	111.1	2.1			G2/225
BL (0°-30°)	221.9	4.2	B1/500		
BM (30°-60°)	1121.4	21.1	B2/2500		
BH (60°-80°)	980.9	18.5	B2/1000		G2/1000
BVH (80°-90°)	119.5	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°	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6
2.5°	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	376.5	377.3	377.3
5°	379.1	378.2	378.2	379.1	379.9	380.8	382.5	383.3	385.0	386.8	385.9
7.5°	386.8	386.8	386.8	387.6	390.2	391.9	394.5	397.0	399.6	401.3	400.4
10°	398.7	398.7	398.7	400.4	403.0	408.1	412.4	416.7	419.3	421.0	421.8
12.5°	411.6	411.6	413.3	416.7	421.8	428.7	436.4	442.4	446.6	448.4	449.2
15°	429.5	430.4	433.8	437.2	444.1	454.4	467.2	475.7	480.0	483.4	482.6
17.5°	456.9	456.1	458.6	466.3	474.0	488.6	504.0	518.5	527.1	527.1	527.1
20°	487.7	486.9	488.6	494.6	507.4	527.1	551.0	570.7	580.1	578.4	580.1
22.5°	521.9	521.9	523.7	528.8	541.6	569.9	603.2	632.3	645.2	640.9	639.2
25°	559.6	559.6	562.2	566.4	584.4	618.6	663.1	705.1	717.9	713.6	711.9
27.5°	603.2	599.8	604.9	609.2	631.5	676.8	735.0	788.1	816.3	801.7	796.6
30°	649.4	646.9	647.7	656.3	682.0	740.1	809.4	880.5	919.8	910.4	902.7
32.5°	689.7	691.4	693.9	708.5	737.6	807.7	888.2	981.4	1025.9	1023.4	1021.6
35°	735.0	735.0	740.1	753.8	796.6	879.6	977.2	1082.4	1148.3	1150.8	1145.7
37.5°	770.9	770.9	778.6	796.6	847.1	945.5	1065.3	1189.4	1268.9	1282.6	1278.3
40°	802.6	800.9	809.4	836.0	895.0	1015.7	1151.7	1295.5	1402.4	1425.5	1419.5
42.5°	821.4	823.1	835.1	868.5	941.2	1077.3	1236.4	1395.6	1520.5	1559.9	1559.9
45°	835.1	836.8	854.8	894.2	983.1	1138.0	1313.4	1498.2	1636.0	1693.3	1695.9
47.5°	841.1	843.7	865.9	913.8	1018.2	1193.6	1387.9	1590.7	1739.5	1820.8	1815.7
50°	841.1	844.5	871.1	928.4	1049.9	1240.7	1458.0	1678.8	1844.8	1935.5	1934.6
52.5°	836.0	840.2	872.8	939.5	1076.4	1286.0	1520.5	1754.1	1945.7	2052.7	2056.1
55°	825.7	830.8	868.5	946.3	1096.9	1322.0	1571.0	1824.2	2033.0	2153.7	2161.4
57.5°	805.2	810.3	853.1	940.4	1104.6	1340.8	1607.8	1873.9	2104.0	2245.2	2246.9
60°	770.9	776.9	823.1	920.7	1096.9	1341.7	1617.2	1896.1	2152.0	2306.8	2312.8
62°	733.3	740.1	792.3	893.3	1077.3	1328.0	1606.9	1895.3	2164.8	2324.8	2332.5
62.5°	723.9	729.9	782.9	883.9	1069.6	1321.1	1600.9	1891.0	2163.1	2325.7	2331.6
65°	665.7	671.7	725.6	832.5	1022.5	1279.2	1557.3	1853.3	2132.3	2291.4	2293.1
67.5°	601.5	607.5	661.4	762.4	954.9	1209.0	1483.7	1778.9	2050.1	2187.9	2200.7
70°	527.1	535.6	585.3	685.4	865.9	1108.1	1367.3	1660.8	1919.2	2036.4	2048.4
72.5°	453.5	459.5	498.8	587.0	750.4	975.4	1216.7	1482.0	1717.3	1828.5	1838.8
75°	367.9	373.1	411.6	484.3	621.2	812.9	1040.5	1272.4	1486.3	1586.4	1594.1
77.5°	290.1	291.8	319.2	377.3	482.6	637.5	825.7	1008.8	1203.0	1293.7	1314.3
80°	204.5	213.1	231.9	272.1	338.8	456.9	593.0	749.5	885.6	987.4	994.3
82.5°	132.6	134.3	146.3	160.9	208.8	288.4	377.3	474.0	595.5	661.4	656.3
85°	69.3	69.3	73.6	77.9	94.1	129.2	182.3	249.8	320.9	370.5	363.7
87.5°	12.0	11.1	12.0	11.1	14.5	20.5	38.5	62.5	94.1	111.2	122.4
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°	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6	375.6
2.5°	377.3	377.3	378.2	379.9	379.9	380.8	381.6	381.6	382.5	383.3	383.3
5°	387.6	387.6	388.5	390.2	391.0	391.0	391.9	392.7	392.7	392.7	393.6
7.5°	401.3	402.2	403.0	403.9	404.7	404.7	407.3	406.4	406.4	406.4	406.4
10°	421.0	422.7	422.7	422.7	422.7	421.8	422.7	421.8	420.1	420.1	419.3
12.5°	450.1	450.1	448.4	446.6	444.1	443.2	442.4	439.8	436.4	434.7	434.7
15°	483.4	481.7	478.3	474.9	470.6	467.2	461.2	457.8	453.5	451.8	451.8
17.5°	526.2	523.7	514.2	507.4	497.1	489.4	482.6	475.7	470.6	468.9	468.0
20°	575.0	569.0	555.3	539.9	526.2	514.2	501.4	492.9	487.7	483.4	482.6
22.5°	636.6	628.0	604.1	580.1	555.3	538.2	521.9	510.0	500.6	496.3	494.6
25°	703.3	690.5	659.7	623.8	589.5	563.0	542.5	526.2	515.1	508.3	506.5
27.5°	788.1	769.2	723.9	670.0	624.6	591.3	563.0	544.2	529.6	519.4	517.7
30°	887.3	867.6	792.3	721.3	664.0	616.9	586.1	561.3	543.3	531.4	528.8
32.5°	1005.4	969.5	883.0	782.9	704.2	646.9	607.5	578.4	556.2	542.5	539.1
35°	1125.2	1088.4	974.6	847.9	747.0	677.7	630.6	595.5	570.7	553.6	551.9
37.5°	1259.5	1215.0	1081.5	921.5	793.2	710.2	652.0	611.8	581.8	563.9	562.2
40°	1404.1	1358.8	1196.2	1006.2	847.9	741.8	672.5	627.2	593.8	574.1	571.6
42.5°	1546.2	1492.3	1312.6	1091.0	903.6	776.9	696.5	643.4	604.1	583.6	580.1
45°	1669.4	1622.3	1430.6	1188.5	967.7	812.9	720.5	658.9	615.2	592.1	588.7
47.5°	1808.8	1758.4	1559.9	1278.3	1029.3	853.9	743.6	672.5	624.6	599.8	597.2
50°	1932.1	1886.7	1674.5	1361.3	1088.4	892.4	765.0	685.4	632.3	605.8	602.4
52.5°	2044.1	2003.9	1779.8	1439.2	1138.9	928.4	784.6	694.8	637.5	608.4	604.1
55°	2157.1	2104.9	1871.3	1507.7	1179.1	956.6	800.9	699.1	636.6	606.7	602.4
57.5°	2241.8	2192.2	1938.0	1556.4	1209.0	975.4	810.3	698.2	631.5	599.0	593.8
60°	2299.1	2244.4	1977.4	1580.4	1219.3	981.4	810.3	690.5	618.6	583.6	578.4
62°	2320.5	2257.2	1985.1	1583.8	1215.0	975.4	804.3	677.7	601.5	567.3	562.2
62.5°	2321.4	2256.3	1982.5	1581.2	1212.5	972.9	800.9	673.4	597.2	562.2	557.0
65°	2283.7	2218.7	1951.7	1554.7	1183.4	949.8	776.9	648.6	567.3	533.1	527.9
67.5°	2175.9	2126.3	1878.2	1493.1	1133.7	907.0	741.8	612.6	532.2	496.3	493.7
70°	2026.2	1980.8	1758.4	1399.8	1061.9	845.4	689.7	564.7	487.7	455.2	449.2
72.5°	1837.9	1778.9	1588.1	1274.9	958.3	760.7	621.2	504.8	436.4	407.3	403.9
75°	1604.3	1533.3	1374.2	1109.8	834.3	658.9	541.6	438.1	377.3	352.5	355.1
77.5°	1306.6	1273.2	1110.6	884.7	679.4	545.0	444.1	371.4	319.2	298.6	296.9
80°	986.6	954.9	841.1	671.7	513.4	412.4	344.0	292.6	256.7	238.7	237.9
82.5°	669.1	639.2	552.8	450.9	350.0	291.8	249.0	215.6	193.4	184.8	184.8
85°	367.9	342.3	292.6	243.9	197.7	166.9	160.9	143.7	137.8	136.0	137.8
87.5°	114.7	113.8	96.7	79.6	69.3	70.2	63.3	65.0	61.6	60.8	65.0
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)