

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: P472328

Luminaire Tested: **CCW-VA-4-750-U-T3**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472328
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-4-750-U-T3
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS
Light Source: 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5807.1 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

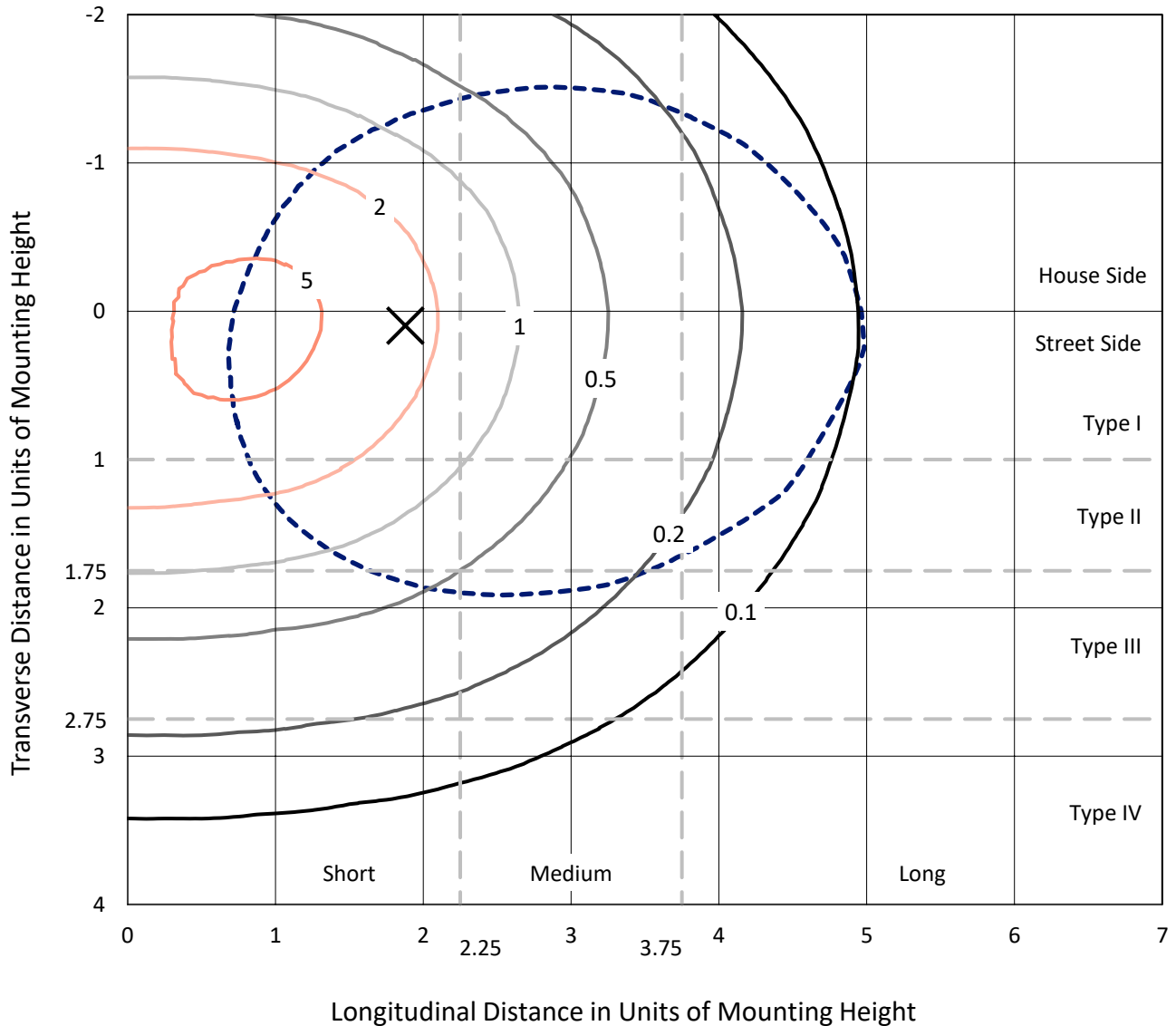
Input Watts (W): 64.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P472328
 CATALOG NUMBER: CCW-VA-4-750-U-T3

Iso-Footcandle Lines of Horizontal Illumination

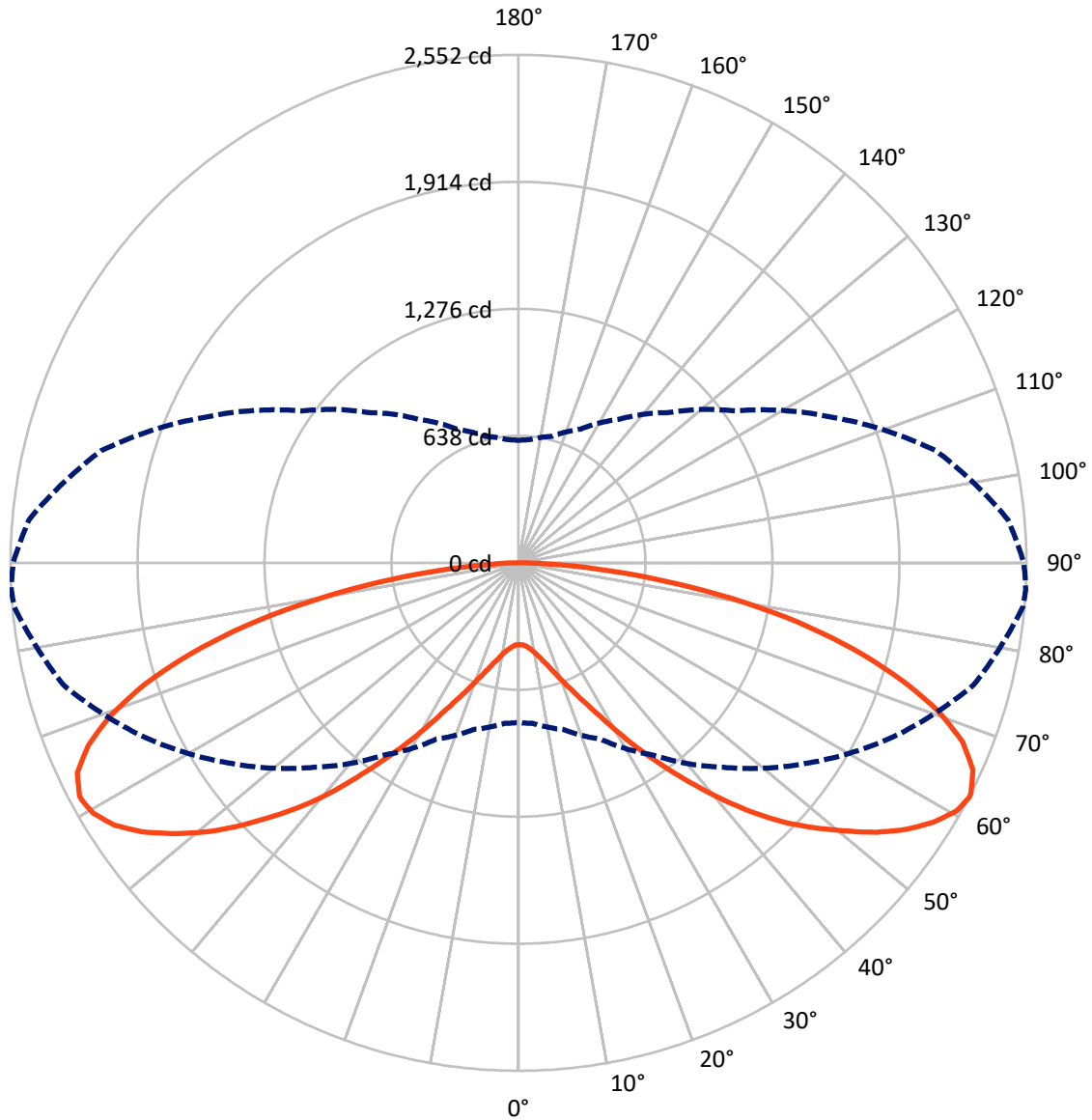
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 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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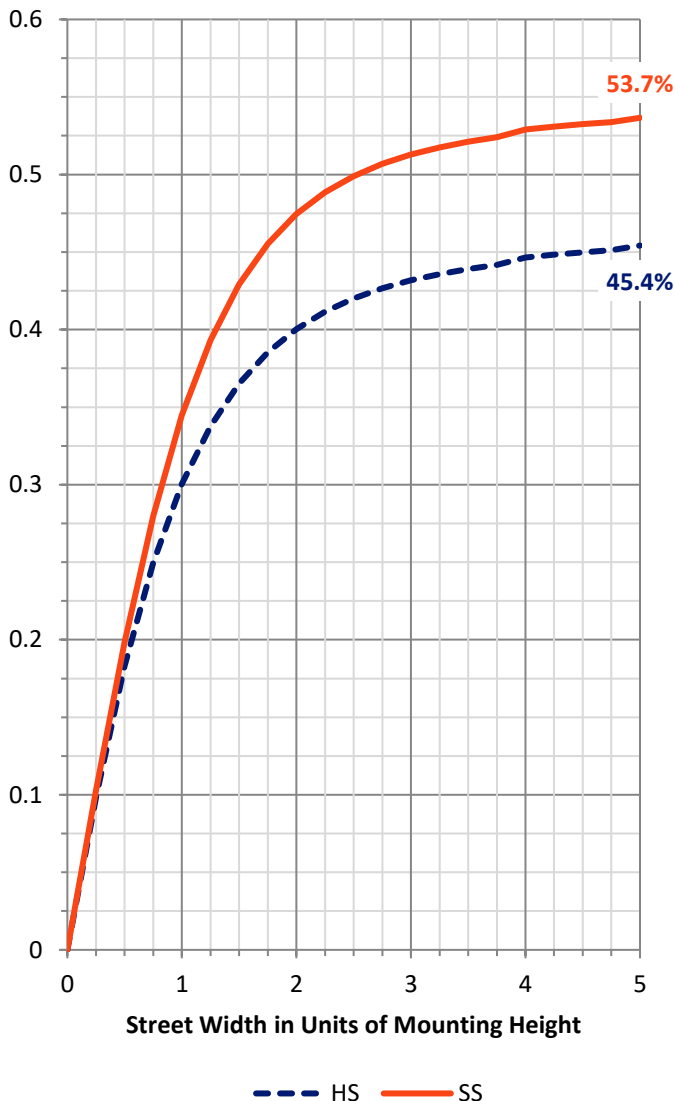
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2673.7	0.0	2673.7
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	3133.4	0.0	3133.4
	% Fixture	54.0	0.0	54.0
Total	Lumens	5807.1	0.0	5807.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.4	0.7
10°-20°	145.9	2.5
20°-30°	312.0	5.4
30°-40°	575.0	9.9
40°-50°	917.0	15.8
50°-60°	1247.0	21.5
60°-70°	1351.1	23.3
70°-80°	965.4	16.6
80°-90°	252.3	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°	5807.1	100.0
0°-180°	5807.1	100.0



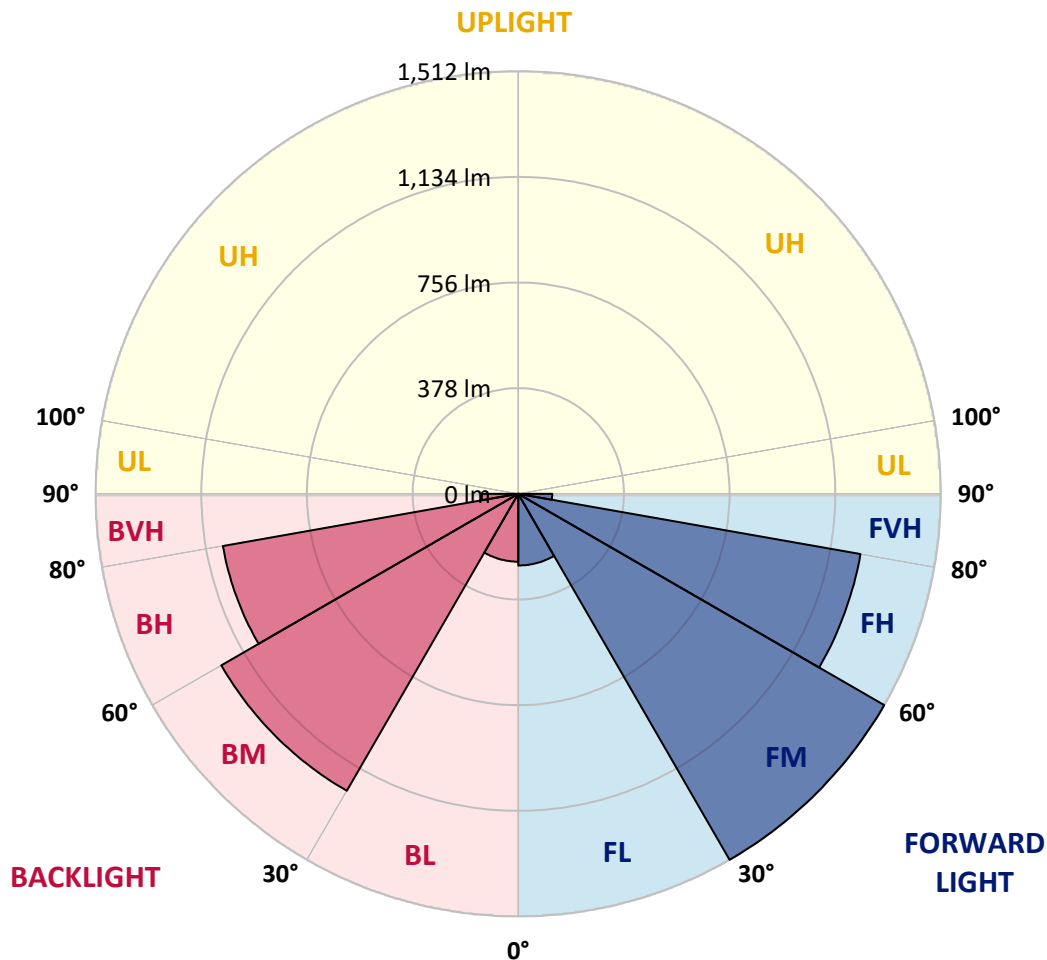
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 CATALOG NUMBER: CCW-VA-4-750-U-T3

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	256.4	4.4			
FM (30°-60°)	1512.1	26.0			
FH (60°-80°)	1243.3	21.4			G1/1800
FVH (80°-90°)	121.5	2.1			G2/225
BL (0°-30°)	242.8	4.2	B1/500		
BM (30°-60°)	1226.9	21.1	B2/2500		
BH (60°-80°)	1073.2	18.5	B3/2500		G3/2500
BVH (80°-90°)	130.8	2.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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 CATALOG NUMBER: CCW-VA-4-750-U-T3

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0
2.5°	411.9	411.9	411.9	411.9	411.9	411.9	411.9	411.9	411.9	411.9	412.8
5°	414.7	413.8	413.8	414.7	415.7	416.6	418.5	419.4	421.3	423.1	422.2
7.5°	423.1	423.1	423.1	424.1	426.9	428.8	431.6	434.4	437.2	439.1	438.1
10°	436.3	436.3	436.3	438.1	440.9	446.5	451.2	455.9	458.7	460.6	461.5
12.5°	450.3	450.3	452.2	455.9	461.5	469.0	477.4	484.0	488.7	490.5	491.5
15°	470.0	470.9	474.6	478.4	485.9	497.1	511.1	520.5	525.2	528.9	528.0
17.5°	499.9	499.0	501.8	510.2	518.6	534.5	551.4	567.3	576.7	576.7	576.7
20°	533.6	532.7	534.5	541.1	555.1	576.7	602.9	624.4	634.7	632.8	634.7
22.5°	571.1	571.1	572.9	578.5	592.6	623.5	660.0	691.8	705.9	701.2	699.3
25°	612.2	612.2	615.1	619.7	639.4	676.8	725.5	771.4	785.4	780.8	778.9
27.5°	660.0	656.2	661.9	666.5	690.9	740.5	804.2	862.2	893.1	877.2	871.6
30°	710.5	707.7	708.7	718.0	746.1	809.8	885.6	963.3	1006.4	996.1	987.6
32.5°	754.5	756.4	759.2	775.1	807.0	883.7	971.7	1073.8	1122.5	1119.6	1117.8
35°	804.2	804.2	809.8	824.8	871.6	962.4	1069.1	1184.2	1256.3	1259.1	1253.5
37.5°	843.5	843.5	851.9	871.6	926.8	1034.5	1165.5	1301.3	1388.3	1403.3	1398.6
40°	878.1	876.2	885.6	914.6	979.2	1111.2	1260.1	1417.3	1534.4	1559.6	1553.1
42.5°	898.7	900.6	913.7	950.2	1029.8	1178.6	1352.8	1526.9	1663.6	1706.6	1706.6
45°	913.7	915.6	935.2	978.3	1075.6	1245.1	1437.0	1639.2	1789.9	1852.7	1855.5
47.5°	920.2	923.1	947.4	999.8	1114.0	1305.9	1518.5	1740.3	1903.2	1992.1	1986.5
50°	920.2	924.0	953.0	1015.7	1148.7	1357.4	1595.2	1836.7	2018.4	2117.6	2116.7
52.5°	914.6	919.3	954.9	1027.9	1177.7	1407.0	1663.6	1919.1	2128.8	2245.8	2249.6
55°	903.4	909.0	950.2	1035.4	1200.2	1446.4	1718.8	1995.9	2224.3	2356.3	2364.7
57.5°	880.9	886.5	933.4	1028.8	1208.6	1467.0	1759.0	2050.2	2302.0	2456.5	2458.4
60°	843.5	850.0	900.6	1007.3	1200.2	1467.9	1769.3	2074.5	2354.4	2523.9	2530.4
62°	802.3	809.8	866.9	977.4	1178.6	1452.9	1758.1	2073.6	2368.5	2543.5	2552.0
62.5°	792.0	798.5	856.6	967.1	1170.2	1445.4	1751.6	2068.9	2366.6	2544.5	2551.0
65°	728.3	734.9	793.9	910.9	1118.7	1399.6	1703.8	2027.7	2332.9	2507.0	2508.9
67.5°	658.1	664.7	723.7	834.1	1044.8	1322.8	1623.3	1946.3	2243.0	2393.8	2407.8
70°	576.7	586.0	640.3	749.9	947.4	1212.3	1496.0	1817.1	2099.8	2228.1	2241.2
72.5°	496.2	502.7	545.8	642.2	821.0	1067.2	1331.2	1621.4	1878.9	2000.6	2011.8
75°	402.5	408.2	450.3	529.9	679.7	889.4	1138.4	1392.1	1626.1	1735.6	1744.1
77.5°	317.4	319.2	349.2	412.8	528.0	697.4	903.4	1103.7	1316.2	1415.5	1437.9
80°	223.7	233.1	253.7	297.7	370.7	499.9	648.8	820.1	968.9	1080.3	1087.8
82.5°	145.1	147.0	160.1	176.0	228.4	315.5	412.8	518.6	651.6	723.7	718.0
85°	75.8	75.8	80.5	85.2	103.0	141.4	199.4	273.4	351.1	405.4	397.9
87.5°	13.1	12.2	13.1	12.2	15.9	22.5	42.1	68.3	103.0	121.7	133.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P472328
 CATALOG NUMBER: CCW-VA-4-750-U-T3

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0	411.0
2.5°	412.8	412.8	413.8	415.7	415.7	416.6	417.5	417.5	418.5	419.4	419.4
5°	424.1	424.1	425.0	426.9	427.8	427.8	428.8	429.7	429.7	429.7	430.6
7.5°	439.1	440.0	440.9	441.9	442.8	442.8	445.6	444.7	444.7	444.7	444.7
10°	460.6	462.5	462.5	462.5	462.5	461.5	462.5	461.5	459.7	459.7	458.7
12.5°	492.4	492.4	490.5	488.7	485.9	484.9	484.0	481.2	477.4	475.6	475.6
15°	528.9	527.1	523.3	519.6	514.9	511.1	504.6	500.8	496.2	494.3	494.3
17.5°	575.7	572.9	562.6	555.1	543.9	535.5	528.0	520.5	514.9	513.0	512.1
20°	629.1	622.5	607.6	590.7	575.7	562.6	548.6	539.2	533.6	528.9	528.0
22.5°	696.5	687.1	660.9	634.7	607.6	588.8	571.1	558.0	547.7	543.0	541.1
25°	769.5	755.5	721.8	682.5	645.0	616.0	593.5	575.7	563.6	556.1	554.2
27.5°	862.2	841.6	792.0	733.0	683.4	646.9	616.0	595.4	579.5	568.2	566.4
30°	970.8	949.3	866.9	789.2	726.5	675.0	641.3	614.1	594.5	581.4	578.5
32.5°	1100.0	1060.7	966.1	856.6	770.5	707.7	664.7	632.8	608.5	593.5	589.8
35°	1231.1	1190.8	1066.3	927.7	817.3	741.4	689.9	651.6	624.4	605.7	603.8
37.5°	1378.0	1329.3	1183.3	1008.2	867.8	777.0	713.4	669.4	636.6	616.9	615.1
40°	1536.2	1486.6	1308.8	1100.9	927.7	811.7	735.8	686.2	649.7	628.2	625.4
42.5°	1691.6	1632.7	1436.1	1193.6	988.6	850.0	762.0	704.0	660.9	638.5	634.7
45°	1826.4	1775.0	1565.3	1300.3	1058.8	889.4	788.2	720.8	673.1	647.8	644.1
47.5°	1979.0	1923.8	1706.6	1398.6	1126.2	934.3	813.5	735.8	683.4	656.2	653.4
50°	2113.8	2064.2	1832.1	1489.4	1190.8	976.4	836.9	749.9	691.8	662.8	659.1
52.5°	2236.5	2192.5	1947.2	1574.6	1246.0	1015.7	858.5	760.2	697.4	665.6	660.9
55°	2360.1	2303.0	2047.4	1649.5	1290.0	1046.6	876.2	764.8	696.5	663.7	659.1
57.5°	2452.7	2398.4	2120.4	1702.9	1322.8	1067.2	886.5	763.9	690.9	655.3	649.7
60°	2515.5	2455.5	2163.5	1729.1	1334.0	1073.8	886.5	755.5	676.8	638.5	632.8
62°	2538.9	2469.6	2171.9	1732.8	1329.3	1067.2	880.0	741.4	658.1	620.7	615.1
62.5°	2539.8	2468.7	2169.1	1730.0	1326.5	1064.4	876.2	736.8	653.4	615.1	609.4
65°	2498.6	2427.5	2135.4	1701.0	1294.7	1039.1	850.0	709.6	620.7	583.2	577.6
67.5°	2380.7	2326.4	2054.9	1633.6	1240.4	992.3	811.7	670.3	582.3	543.0	540.2
70°	2216.8	2167.2	1923.8	1531.6	1161.8	924.9	754.5	617.9	533.6	498.0	491.5
72.5°	2010.9	1946.3	1737.5	1394.9	1048.5	832.2	679.7	552.3	477.4	445.6	441.9
75°	1755.3	1677.6	1503.5	1214.2	912.8	720.8	592.6	479.3	412.8	385.7	388.5
77.5°	1429.5	1393.0	1215.1	968.0	743.3	596.3	485.9	406.3	349.2	326.7	324.8
80°	1079.4	1044.8	920.2	734.9	561.7	451.2	376.3	320.2	280.8	261.2	260.3
82.5°	732.1	699.3	604.8	493.4	382.9	319.2	272.4	235.9	211.6	202.2	202.2
85°	402.5	374.5	320.2	266.8	216.3	182.6	176.0	157.3	150.7	148.8	150.7
87.5°	125.4	124.5	105.8	87.1	75.8	76.8	69.3	71.1	67.4	66.5	71.1
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)