

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: P472197

Luminaire Tested: **CCW-VA-3-840-U-T4W**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472197
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-3-840-U-T4W
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4W DISTRIBUTION LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4980.3 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G2

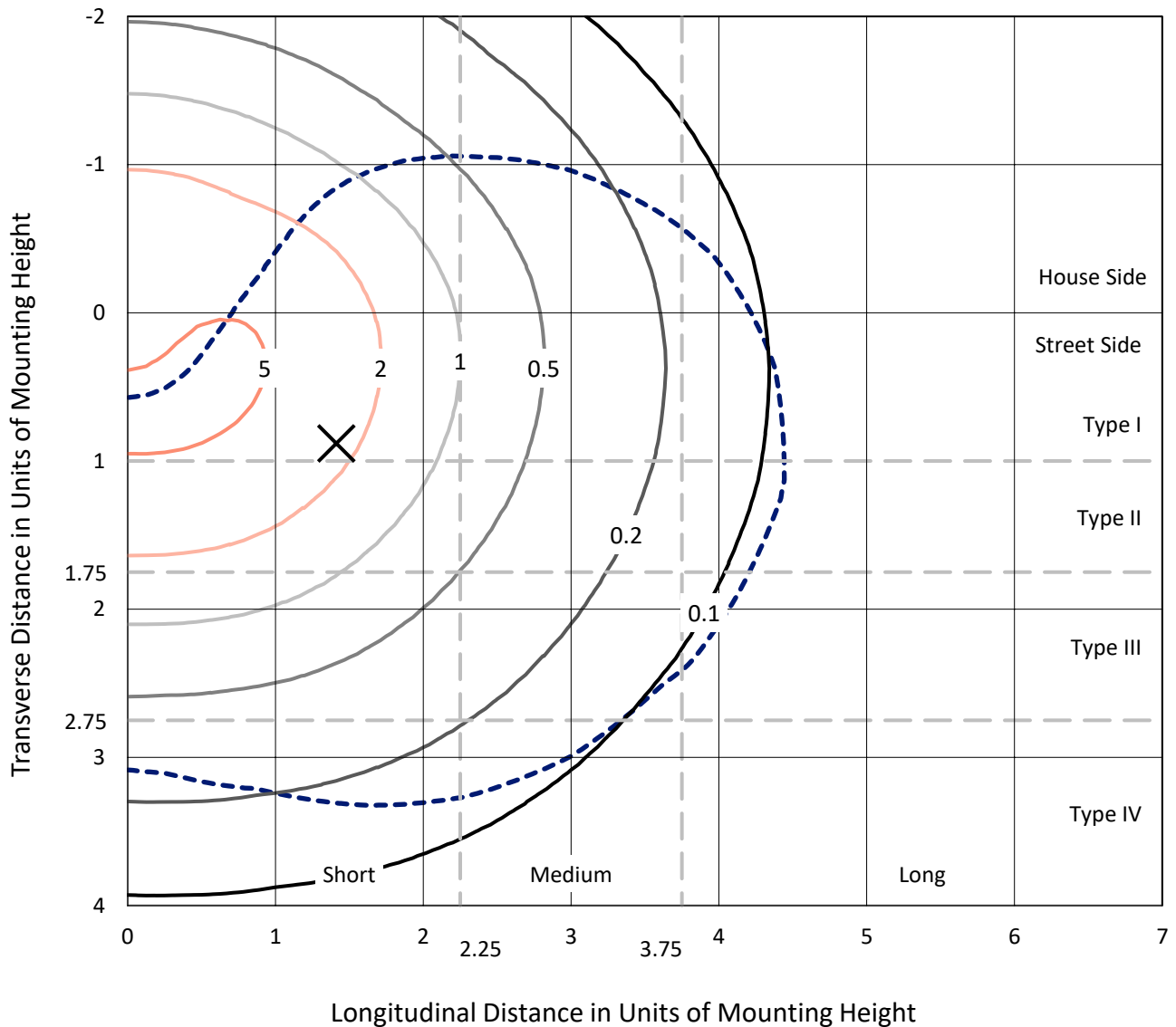
Input Watts (W): 46.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

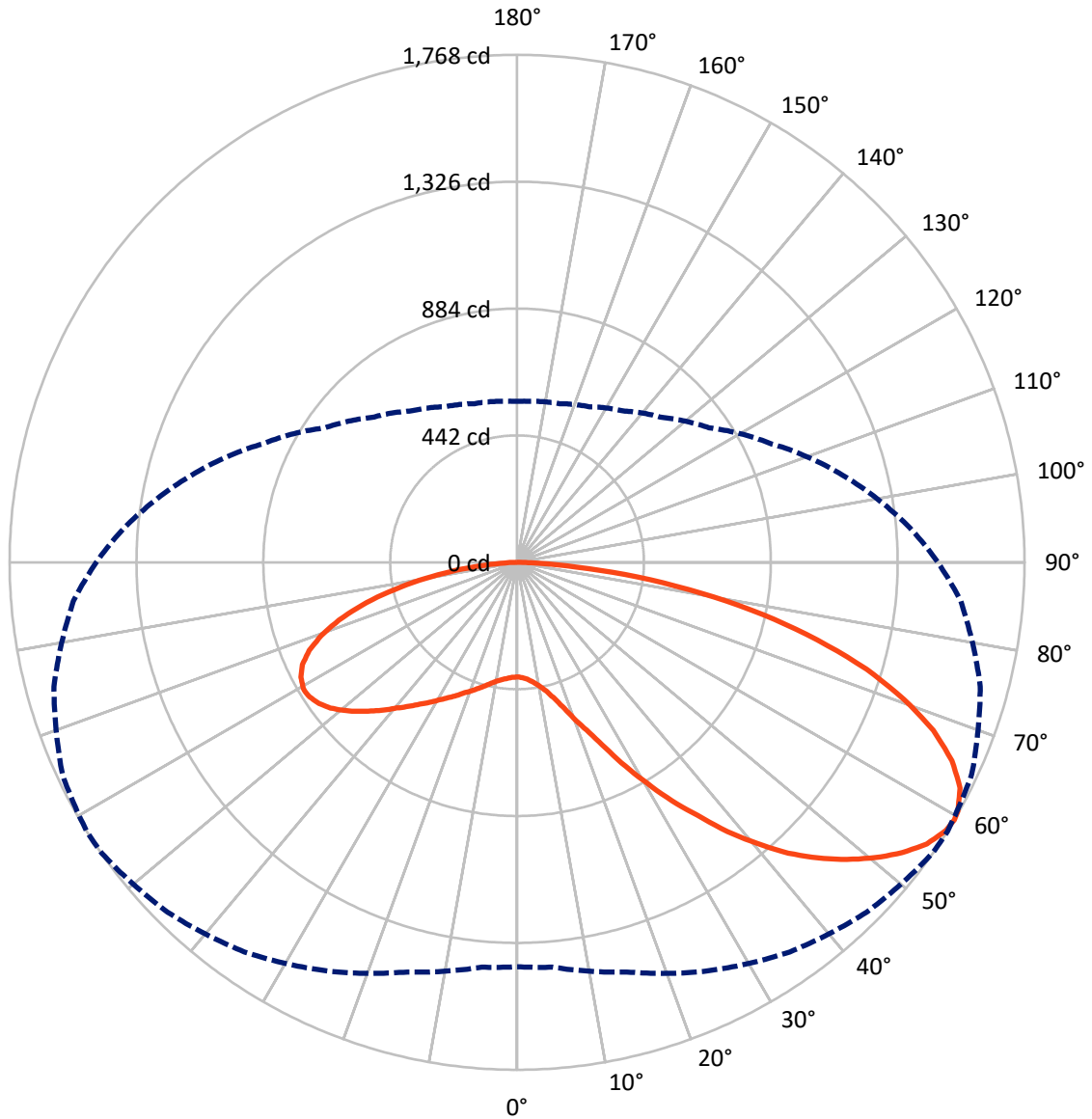
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 59-Deg Vertical

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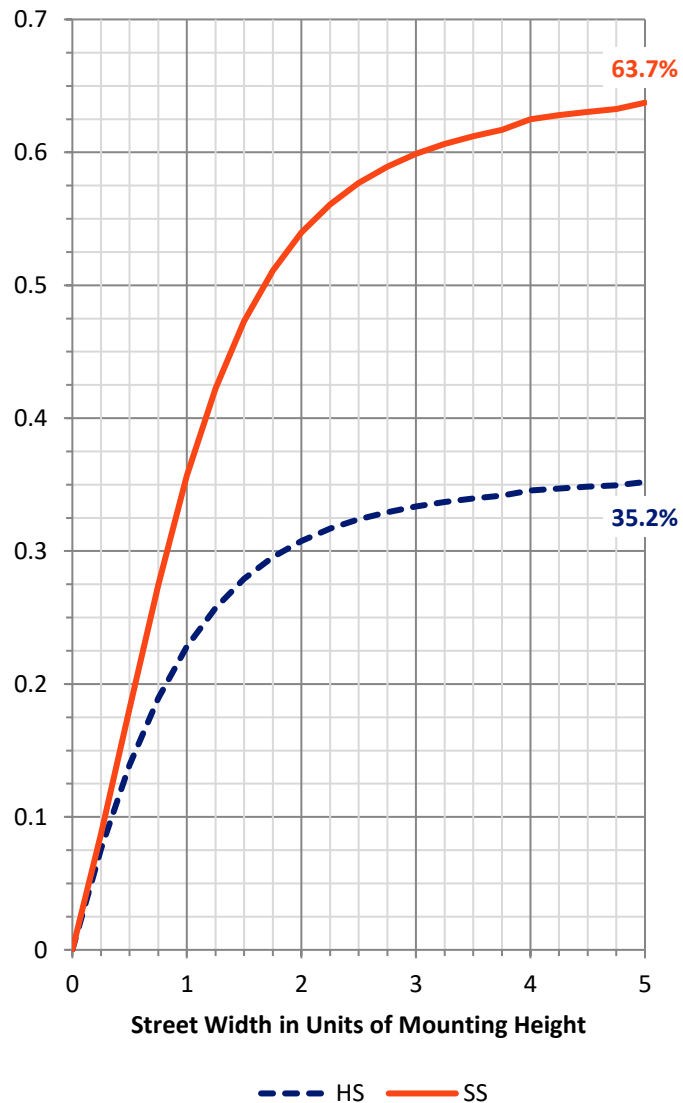
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1776.2	0.0	1776.2
	% Fixture	35.7	0.0	35.7
Street Side	Lumens	3204.1	0.0	3204.1
	% Fixture	64.3	0.0	64.3
Total	Lumens	4980.3	0.0	4980.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	0.8
10°-20°	135.1	2.7
20°-30°	285.1	5.7
30°-40°	524.7	10.5
40°-50°	817.9	16.4
50°-60°	1074.8	21.6
60°-70°	1126.2	22.6
70°-80°	780.8	15.7
80°-90°	196.1	3.9
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°	4980.3	100.0
0°-180°	4980.3	100.0

Coefficient of Utilization

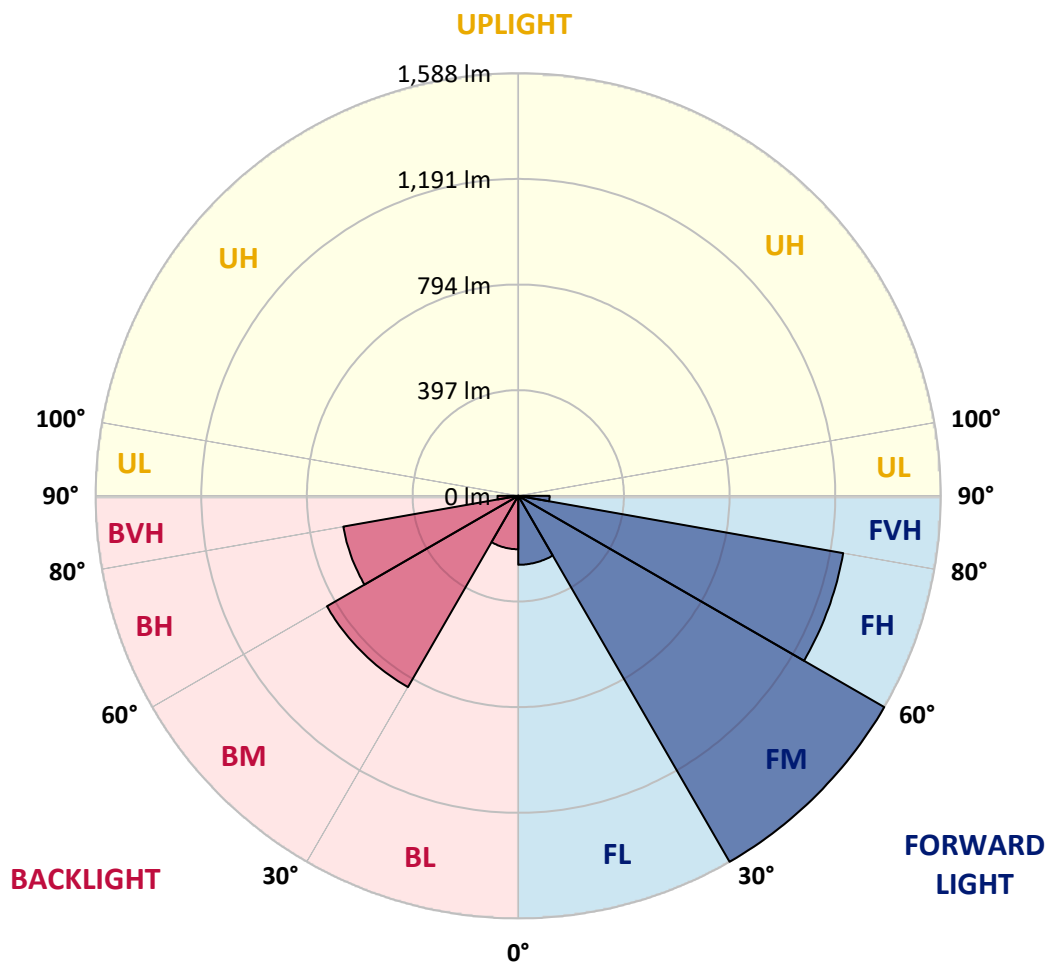


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	259.1	5.2			
FM (30°-60°)	1587.6	31.9			
FH (60°-80°)	1239.6	24.9			G1/1800
FVH (80°-90°)	117.8	2.4			G2/225
BL (0°-30°)	200.8	4.0	B1/500		
BM (30°-60°)	829.8	16.7	B1/1000		
BH (60°-80°)	667.4	13.4	B2/1000		G2/1000
BVH (80°-90°)	78.2	1.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	399.2	399.2	399.2	399.2	399.2	399.2	399.2	399.2	399.2	399.2	399.2
2.5°	404.9	404.9	404.9	403.7	403.7	403.7	402.6	402.6	402.6	401.5	400.4
5°	413.8	413.8	412.7	413.8	412.7	411.6	410.5	410.5	410.5	409.3	408.2
7.5°	426.2	427.3	426.2	427.3	426.2	425.0	422.8	422.8	421.7	419.4	417.2
10°	445.2	445.2	445.2	444.1	443.0	441.9	440.7	439.6	438.5	435.1	431.8
12.5°	468.8	468.8	468.8	466.5	466.5	464.3	463.2	462.1	459.8	455.3	450.8
15°	497.9	496.8	500.2	500.2	499.1	499.1	495.7	493.5	491.2	484.5	474.4
17.5°	537.2	536.1	539.4	541.7	541.7	542.8	537.2	534.9	527.1	518.1	504.7
20°	589.9	587.7	591.0	593.3	591.0	593.3	587.7	588.8	577.6	561.9	540.6
22.5°	647.1	647.1	650.5	650.5	651.6	653.8	647.1	643.7	634.8	612.3	585.4
25°	717.7	723.4	723.4	723.4	727.8	729.0	722.2	716.6	704.3	674.0	637.0
27.5°	804.1	803.0	801.9	808.6	808.6	810.8	806.3	804.1	789.5	752.5	696.4
30°	896.1	889.3	893.8	896.1	900.5	903.9	899.4	892.7	874.8	834.4	764.8
32.5°	980.2	984.7	991.4	993.6	1000.4	1001.5	990.3	990.3	972.3	920.7	849.0
35°	1075.5	1075.5	1093.4	1101.3	1101.3	1108.0	1091.2	1082.2	1069.9	1016.1	925.2
37.5°	1158.5	1160.7	1175.3	1193.3	1195.5	1205.6	1193.3	1189.9	1167.5	1112.5	1011.6
40°	1235.9	1238.1	1256.1	1277.4	1289.7	1305.4	1293.1	1287.5	1263.9	1201.1	1097.9
42.5°	1296.4	1300.9	1323.3	1354.7	1374.9	1394.0	1388.4	1385.0	1352.5	1286.3	1177.6
45°	1342.4	1350.3	1381.7	1418.7	1446.7	1474.7	1475.9	1469.1	1438.9	1364.8	1254.9
47.5°	1379.4	1388.4	1423.2	1470.3	1512.9	1547.6	1554.4	1546.5	1518.5	1441.1	1324.5
50°	1409.7	1414.2	1453.4	1514.0	1566.7	1610.4	1623.9	1617.2	1592.5	1505.0	1385.0
52.5°	1425.4	1432.1	1477.0	1546.5	1610.4	1663.2	1683.3	1680.0	1650.8	1563.3	1438.9
55°	1433.3	1440.0	1492.7	1572.3	1644.1	1705.8	1730.4	1731.6	1703.5	1616.1	1489.3
57.5°	1424.3	1433.3	1490.4	1579.0	1658.7	1724.8	1763.0	1761.8	1739.4	1656.4	1531.9
59°	1408.6	1415.3	1477.0	1570.1	1656.4	1722.6	1766.3	1767.5	1747.3	1669.9	1551.0
60°	1390.6	1398.5	1461.3	1558.9	1647.5	1714.7	1760.7	1763.0	1746.1	1673.2	1558.9
62.5°	1329.0	1339.0	1408.6	1512.9	1609.3	1673.2	1728.2	1731.6	1722.6	1664.3	1564.5
65°	1242.6	1251.6	1326.7	1437.7	1538.7	1604.8	1656.4	1664.3	1663.2	1623.9	1542.0
67.5°	1137.2	1138.3	1209.0	1330.1	1435.5	1500.5	1549.9	1563.3	1573.4	1547.6	1475.9
70°	1010.5	1009.3	1077.7	1197.7	1303.2	1371.6	1420.9	1429.9	1455.7	1435.5	1377.2
72.5°	853.4	866.9	930.8	1031.8	1136.1	1212.3	1256.1	1272.9	1287.5	1291.9	1243.7
75°	705.4	720.0	770.5	864.7	954.4	1025.0	1072.1	1080.0	1106.9	1113.6	1068.8
77.5°	564.1	565.2	602.2	677.4	759.2	817.6	855.7	875.9	890.5	903.9	856.8
80°	395.9	401.5	427.3	481.1	545.0	606.7	638.1	651.6	661.7	670.6	654.9
82.5°	247.8	250.1	266.9	299.4	343.2	377.9	410.5	421.7	423.9	444.1	441.9
85°	117.8	118.9	130.1	145.8	164.9	192.9	205.2	205.2	220.9	235.5	235.5
87.5°	15.7	15.7	19.1	21.3	26.9	34.8	48.2	49.3	58.3	65.0	70.7
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°	399.2	399.2	399.2	399.2	399.2	399.2	399.2	399.2	399.2	399.2	399.2
2.5°	400.4	400.4	400.4	400.4	400.4	399.2	400.4	400.4	400.4	400.4	400.4
5°	408.2	407.1	406.0	404.9	404.9	403.7	403.7	403.7	403.7	403.7	403.7
7.5°	416.1	414.9	413.8	411.6	410.5	409.3	409.3	408.2	408.2	408.2	408.2
10°	429.5	428.4	423.9	420.6	418.3	417.2	416.1	414.9	413.8	413.8	413.8
12.5°	447.5	445.2	437.4	432.9	429.5	427.3	425.0	423.9	422.8	421.7	421.7
15°	469.9	464.3	454.2	447.5	443.0	439.6	436.3	434.0	432.9	431.8	431.8
17.5°	496.8	490.1	476.6	464.3	456.4	450.8	446.3	443.0	441.9	441.9	441.9
20°	530.5	519.2	500.2	483.4	471.0	463.2	456.4	453.1	452.0	450.8	449.7
22.5°	569.7	555.1	527.1	501.3	485.6	474.4	466.5	462.1	458.7	457.6	457.6
25°	614.6	593.3	556.3	524.9	503.5	487.8	477.8	472.1	466.5	464.3	464.3
27.5°	668.4	640.4	591.0	549.5	520.4	501.3	490.1	482.2	476.6	472.1	469.9
30°	726.7	695.3	629.2	576.4	539.4	518.1	504.7	495.7	487.8	480.0	478.9
32.5°	800.7	755.9	675.1	606.7	561.9	534.9	519.2	508.0	497.9	490.1	487.8
35°	875.9	822.0	723.4	638.1	583.2	550.6	531.6	519.2	509.2	500.2	499.1
37.5°	953.3	896.1	776.1	675.1	607.8	568.6	545.0	531.6	519.2	510.3	509.2
40°	1034.0	966.7	829.9	713.3	633.6	586.5	559.6	542.8	529.3	521.5	520.4
42.5°	1110.3	1037.4	888.2	758.1	663.9	605.6	574.2	556.3	539.4	531.6	530.5
45°	1183.2	1104.7	946.5	799.6	694.2	625.8	588.8	567.5	549.5	541.7	540.6
47.5°	1249.3	1170.8	1000.4	844.5	725.6	648.2	604.5	578.7	558.5	550.6	550.6
50°	1308.8	1226.9	1053.1	886.0	754.8	670.6	617.9	588.8	568.6	560.7	559.6
52.5°	1364.8	1276.2	1099.1	921.9	782.8	690.8	631.4	596.6	575.3	566.3	565.2
55°	1409.7	1321.1	1137.2	951.0	801.9	704.3	640.4	601.1	577.6	569.7	568.6
57.5°	1449.0	1358.1	1164.1	971.2	814.2	712.1	644.9	601.1	576.4	567.5	566.3
59°	1465.8	1373.8	1173.1	976.8	816.4	713.3	643.7	597.7	572.0	563.0	560.7
60°	1474.7	1380.5	1176.4	977.9	815.3	711.0	642.6	594.4	567.5	557.4	557.4
62.5°	1483.7	1386.2	1171.9	969.0	803.0	698.7	631.4	580.9	550.6	539.4	539.4
65°	1464.7	1366.0	1146.2	944.3	778.3	677.4	610.1	558.5	524.9	513.6	513.6
67.5°	1408.6	1316.6	1099.1	898.3	737.9	640.4	575.3	522.6	491.2	478.9	475.5
70°	1313.3	1235.9	1025.0	832.1	683.0	593.3	531.6	481.1	448.6	436.3	431.8
72.5°	1185.4	1109.1	926.3	751.4	610.1	531.6	477.8	429.5	393.6	381.3	382.4
75°	1009.3	955.5	798.5	649.3	526.0	453.1	408.2	367.8	337.6	327.5	328.6
77.5°	818.7	773.8	647.1	529.3	429.5	373.5	335.3	302.8	282.6	277.0	273.6
80°	626.9	583.2	485.6	394.8	326.4	287.1	261.3	238.9	223.2	215.3	217.6
82.5°	420.6	393.6	321.9	261.3	222.1	194.0	185.0	170.5	164.9	160.4	163.7
85°	226.5	203.0	168.2	140.2	122.2	114.4	116.6	115.5	111.0	109.9	113.3
87.5°	74.0	63.9	49.3	41.5	42.6	38.1	38.1	35.9	32.5	31.4	33.6
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)