

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: P472274

Luminaire Tested: **CCW-VA-2-740-U-T4FT**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472274
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-2-740-U-T4FT
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T4FT DISTRIBUTION LENS
Light Source: 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4504.9 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

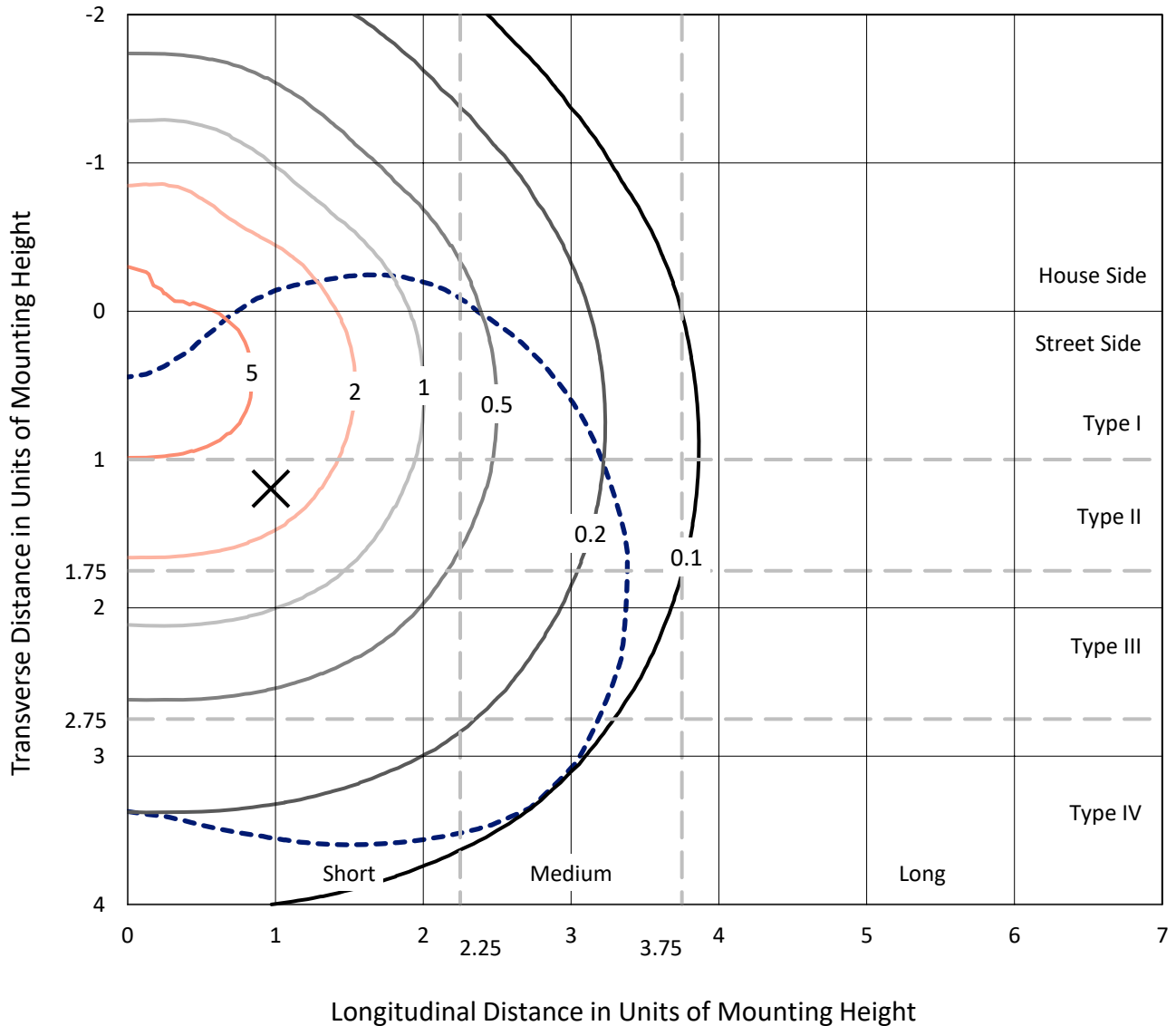
Input Watts (W): 40.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

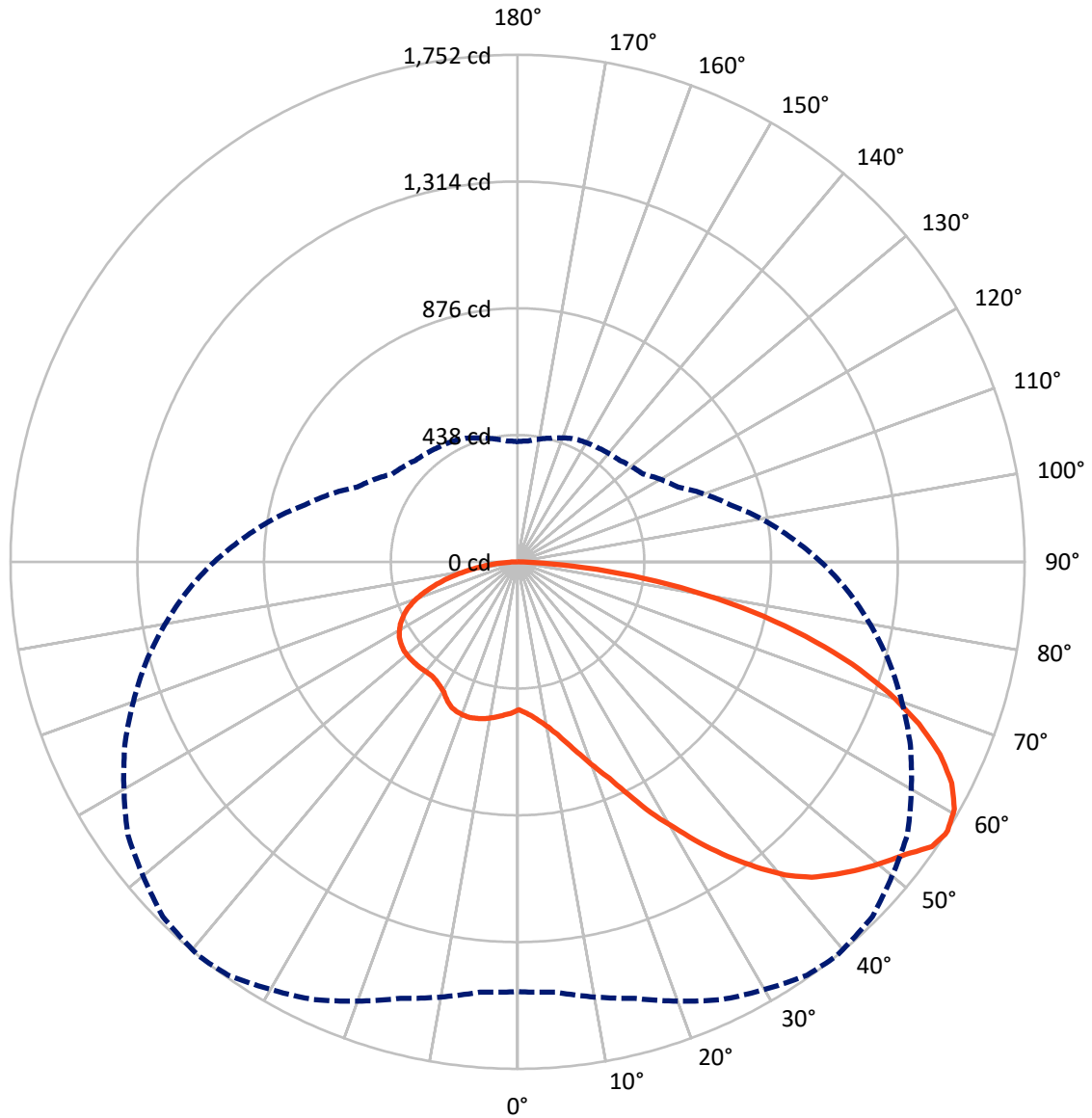
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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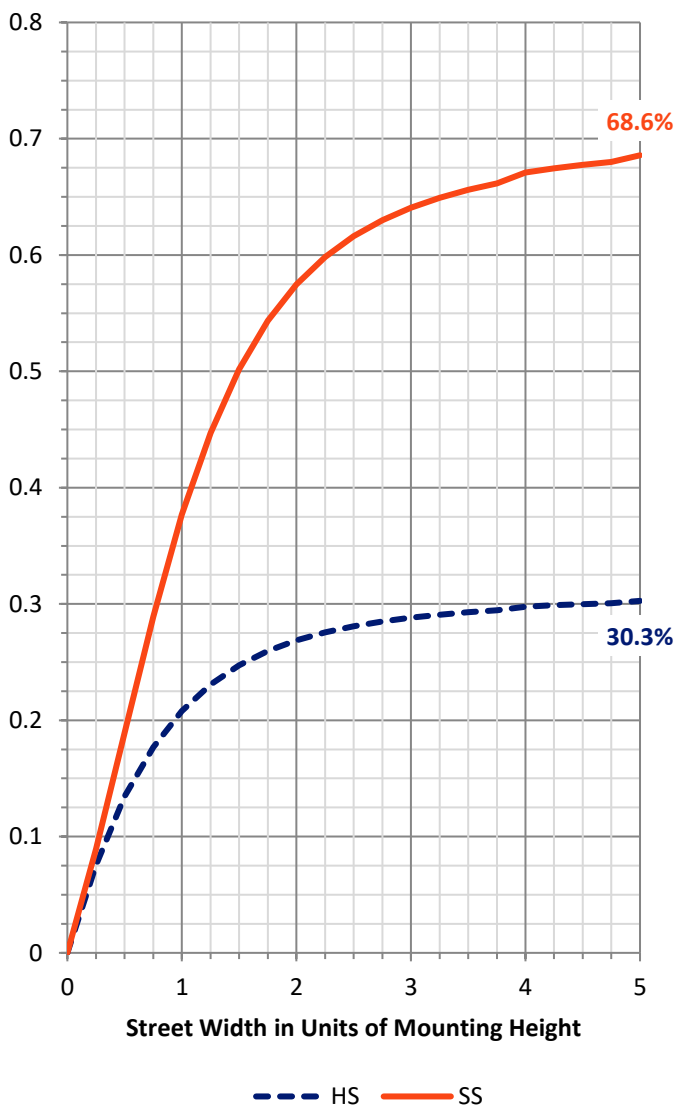
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1382.3	0.0	1382.3
	% Fixture	30.7	0.0	30.7
Street Side	Lumens	3122.6	0.0	3122.6
	% Fixture	69.3	0.0	69.3
Total	Lumens	4504.9	0.0	4504.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.7	1.1
10°-20°	172.5	3.8
20°-30°	333.2	7.4
30°-40°	539.0	12.0
40°-50°	757.2	16.8
50°-60°	935.4	20.8
60°-70°	929.7	20.6
70°-80°	629.1	14.0
80°-90°	157.0	3.5
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°	4504.9	100.0
0°-180°	4504.9	100.0

Coefficient of Utilization



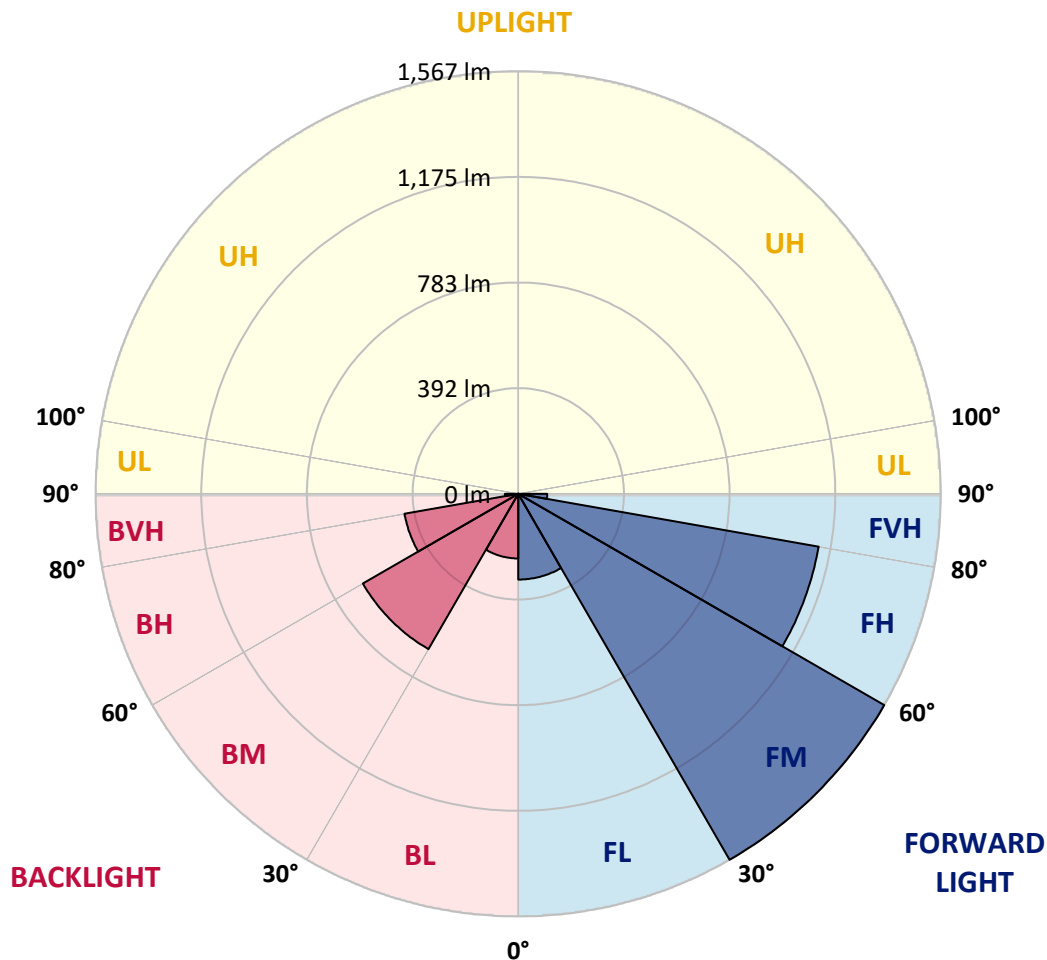
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	317.9	7.1			
FM (30°-60°)	1566.6	34.8			
FH (60°-80°)	1130.8	25.1			G1/1800
FVH (80°-90°)	107.4	2.4			G2/225
BL (0°-30°)	239.6	5.3	B1/500		
BM (30°-60°)	665.1	14.8	B1/1000		
BH (60°-80°)	428.1	9.5	B1/500		G1/500
BVH (80°-90°)	49.6	1.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	510.8	510.8	510.8	510.8	510.8	510.8	510.8	510.8	510.8	510.8	510.8
2.5°	526.0	525.3	524.6	524.6	523.3	521.9	521.2	519.8	520.5	521.9	522.6
5°	541.2	539.8	539.8	538.4	536.4	536.4	534.3	531.5	530.9	530.2	530.2
7.5°	564.7	562.6	563.3	561.2	559.2	556.4	552.9	549.5	548.1	543.3	539.1
10°	591.6	590.9	588.8	585.4	583.3	580.6	577.1	570.9	566.1	560.5	557.1
12.5°	623.4	622.0	622.7	619.9	616.5	611.6	606.1	599.9	590.9	580.6	573.7
15°	664.8	662.0	662.0	661.3	654.4	653.0	647.5	633.7	621.3	607.5	591.6
17.5°	715.2	714.5	711.7	709.0	704.8	700.0	694.5	679.3	660.6	639.2	617.8
20°	769.0	767.6	769.7	765.6	757.3	755.2	746.2	729.0	706.2	681.3	648.9
22.5°	827.7	829.1	829.1	827.7	820.8	812.5	804.9	782.1	755.9	725.5	687.6
25°	898.8	899.5	903.6	907.8	903.6	890.5	880.2	844.9	809.7	771.1	726.2
27.5°	978.9	974.0	985.8	993.4	985.8	982.3	959.5	920.9	872.6	824.2	768.3
30°	1056.2	1056.2	1065.8	1076.9	1072.1	1063.8	1045.1	995.4	940.2	878.8	811.1
32.5°	1128.0	1136.3	1140.4	1165.9	1163.2	1159.0	1137.6	1072.1	1003.0	933.3	852.5
35°	1212.9	1210.1	1227.4	1243.3	1255.7	1250.2	1234.3	1168.0	1077.6	990.6	898.1
37.5°	1277.1	1282.6	1297.8	1326.1	1335.1	1337.8	1317.8	1249.5	1146.6	1052.0	948.5
40°	1326.1	1330.2	1359.2	1395.1	1413.8	1423.4	1403.4	1320.6	1211.5	1101.1	987.8
42.5°	1365.4	1368.2	1398.6	1449.7	1480.7	1490.4	1472.4	1384.8	1266.7	1140.4	1020.3
45°	1391.7	1396.5	1432.4	1484.9	1533.2	1540.1	1531.1	1441.4	1315.7	1177.7	1043.8
47.5°	1414.5	1420.0	1460.0	1526.3	1580.1	1589.1	1580.8	1491.1	1362.7	1211.5	1063.8
50°	1444.8	1451.0	1491.1	1564.9	1624.3	1634.7	1631.9	1543.5	1406.9	1249.5	1084.5
52.5°	1473.8	1478.7	1526.3	1608.4	1672.6	1679.5	1677.5	1592.6	1451.7	1290.2	1110.7
55°	1496.6	1502.1	1558.7	1660.2	1729.2	1736.8	1722.3	1630.5	1486.9	1319.9	1135.6
57°	1484.9	1492.5	1561.5	1669.2	1743.7	1752.0	1733.4	1644.3	1497.3	1328.2	1144.5
57.5°	1481.4	1486.9	1558.7	1668.5	1744.4	1752.0	1733.4	1643.6	1496.6	1327.5	1144.5
60°	1431.0	1444.1	1524.9	1643.6	1724.4	1734.1	1716.1	1616.0	1479.3	1308.1	1125.9
62.5°	1363.4	1381.3	1466.2	1585.0	1676.1	1683.0	1665.0	1569.8	1440.7	1267.4	1087.2
65°	1266.0	1293.7	1382.7	1497.3	1596.0	1604.3	1586.3	1492.5	1376.5	1205.3	1029.3
67.5°	1170.8	1187.3	1282.6	1391.7	1483.5	1495.9	1480.7	1397.2	1288.1	1122.5	951.9
70°	1062.4	1074.1	1152.8	1259.8	1352.3	1362.7	1349.6	1271.6	1168.7	1019.6	861.5
72.5°	931.9	944.4	1011.3	1110.0	1192.2	1208.7	1199.8	1119.0	1025.8	896.7	760.7
75°	784.9	798.7	858.8	937.4	1017.5	1027.2	1016.8	957.5	873.2	756.6	637.9
77.5°	636.5	645.4	688.9	748.3	810.4	831.1	828.4	786.3	701.4	608.9	512.2
80°	476.3	477.7	500.5	549.5	599.2	614.4	617.8	579.9	523.9	454.2	383.8
82.5°	301.0	305.8	318.2	354.8	379.0	399.7	404.5	382.4	347.2	303.7	260.2
85°	140.1	136.0	145.7	158.1	192.6	192.6	198.8	187.1	176.7	162.2	134.6
87.5°	11.7	11.0	11.0	11.7	18.6	20.0	31.8	35.2	38.0	38.0	40.0
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°	510.8	510.8	510.8	510.8	510.8	510.8	510.8	510.8	510.8	510.8	510.8
2.5°	521.2	520.5	518.4	518.4	519.8	521.9	522.6	523.3	523.9	524.6	524.6
5°	529.5	528.8	527.4	526.0	527.4	528.1	530.2	531.5	531.5	532.9	532.2
7.5°	537.1	537.8	536.4	535.7	535.7	537.1	539.8	541.9	543.3	544.0	545.3
10°	554.3	550.2	544.7	541.9	541.9	544.7	547.4	550.2	552.9	554.3	554.3
12.5°	569.5	564.7	554.3	550.2	549.5	552.3	555.7	559.8	561.9	564.0	564.0
15°	583.3	579.2	566.7	557.1	554.3	556.4	560.5	565.4	568.8	570.9	570.9
17.5°	609.5	597.1	580.6	564.7	559.2	559.8	564.7	569.5	573.7	575.0	574.3
20°	634.4	618.5	593.7	570.9	561.9	559.2	564.0	570.2	573.7	575.7	575.7
22.5°	662.7	645.4	606.8	577.1	560.5	556.4	560.5	566.1	570.2	571.6	573.0
25°	702.7	672.4	621.3	581.9	558.5	550.2	552.9	558.5	563.3	564.0	563.3
27.5°	738.6	704.1	640.6	586.8	553.6	538.4	535.7	539.8	547.4	552.3	553.6
30°	769.7	737.9	660.6	590.9	544.7	519.1	515.7	517.0	521.9	535.0	535.7
32.5°	816.0	766.9	680.7	594.4	534.3	508.8	503.9	502.5	503.9	510.8	510.8
35°	847.7	799.4	700.7	600.6	526.7	500.5	495.6	493.6	492.2	485.3	483.2
37.5°	889.1	835.3	720.0	606.1	523.3	497.0	490.1	491.5	484.6	465.3	459.8
40°	934.7	867.7	739.3	611.6	524.6	497.7	491.5	490.8	479.1	452.2	446.6
42.5°	956.8	895.3	759.3	619.2	530.2	499.8	494.3	492.2	477.7	447.3	439.7
45°	978.2	915.4	773.8	625.4	535.7	502.5	495.6	493.6	477.0	443.2	437.7
47.5°	997.5	927.8	780.7	628.9	539.8	504.6	496.3	492.9	473.6	441.1	435.6
50°	1006.5	934.7	780.7	628.9	541.2	506.7	495.0	490.1	468.0	437.7	432.8
52.5°	1020.3	938.8	774.5	624.7	539.1	506.7	492.2	484.6	461.1	432.8	428.7
55°	1041.0	946.4	766.3	618.5	534.3	502.5	487.4	477.0	451.5	425.9	422.5
57°	1047.9	949.2	760.7	610.9	528.8	497.0	481.8	468.7	442.5	419.0	415.6
57.5°	1046.5	947.8	758.7	608.9	526.7	495.0	480.5	466.7	440.4	417.6	414.2
60°	1027.9	934.7	745.5	595.7	515.7	483.9	468.0	452.8	425.9	405.9	403.1
62.5°	997.5	905.0	722.1	578.5	500.5	468.7	452.2	434.9	408.0	390.7	389.3
65°	945.7	855.3	688.2	553.6	481.2	448.7	430.8	412.1	388.6	373.5	369.3
67.5°	859.4	789.0	640.6	519.1	451.5	423.9	404.5	385.2	363.8	350.7	347.9
70°	787.7	716.5	579.9	475.6	415.6	389.3	371.4	352.8	334.1	322.4	321.7
72.5°	696.5	628.2	503.9	421.8	370.0	344.5	330.7	314.1	299.6	289.2	289.2
75°	586.1	532.2	425.2	357.6	315.5	296.8	285.1	272.0	259.6	252.7	254.0
77.5°	466.0	425.2	347.2	289.2	258.2	245.8	234.7	227.1	219.5	213.3	214.0
80°	343.8	313.4	255.4	212.6	197.4	186.4	184.3	179.5	175.3	173.3	169.8
82.5°	235.4	208.5	169.8	145.7	134.6	131.2	131.9	131.9	132.5	132.5	131.2
85°	122.2	111.8	86.3	78.0	76.6	80.1	84.2	87.0	86.3	86.3	84.2
87.5°	35.2	31.8	27.6	24.9	26.2	28.3	24.9	24.2	23.5	22.8	22.8
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)