

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: P472348

Luminaire Tested: **CCW-VA-4-840-U-T3**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472348
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-4-840-U-T3
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T3 DISTRIBUTION LENS
Light Source: 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5554.5 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

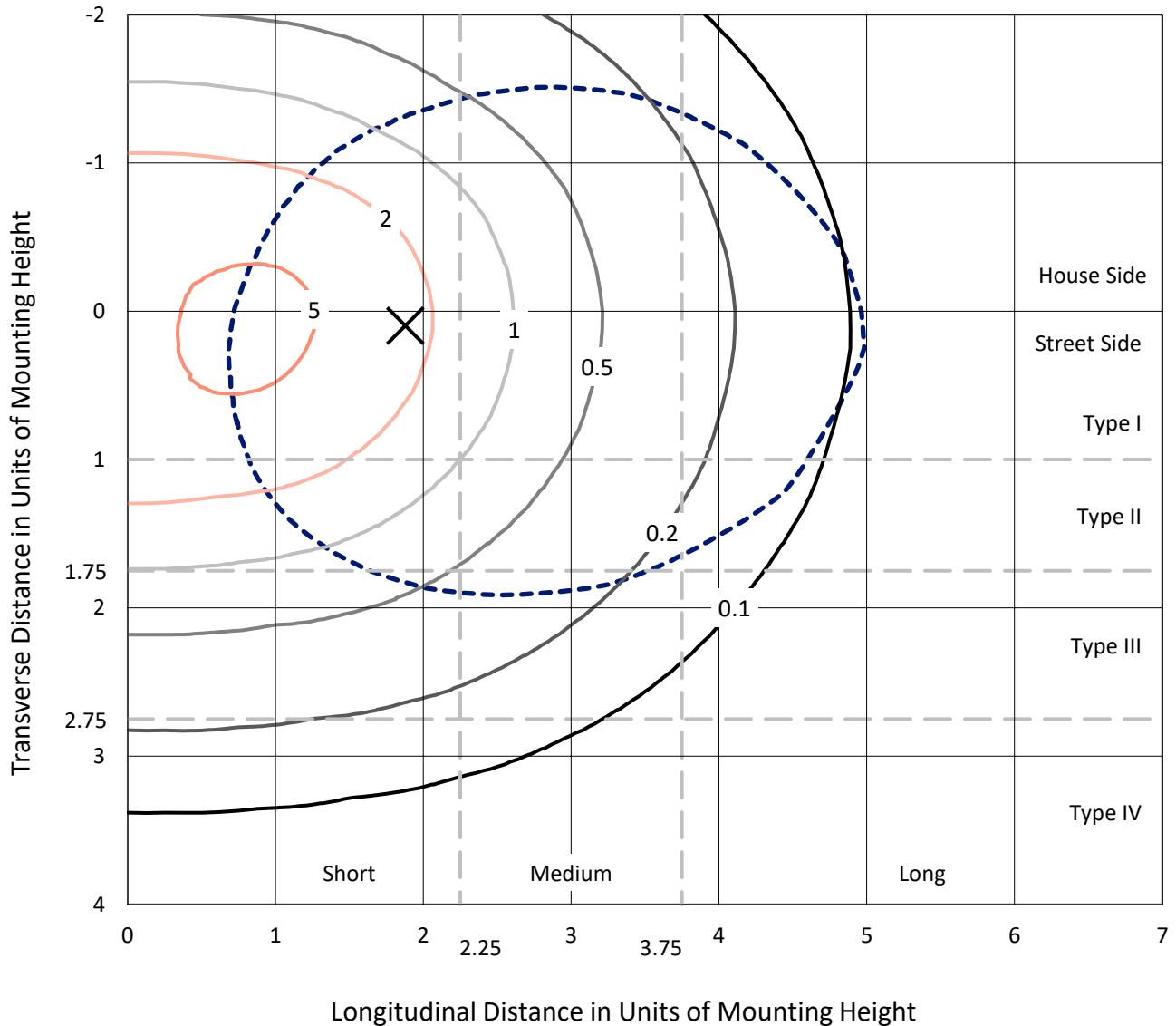
Input Watts (W): 64.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

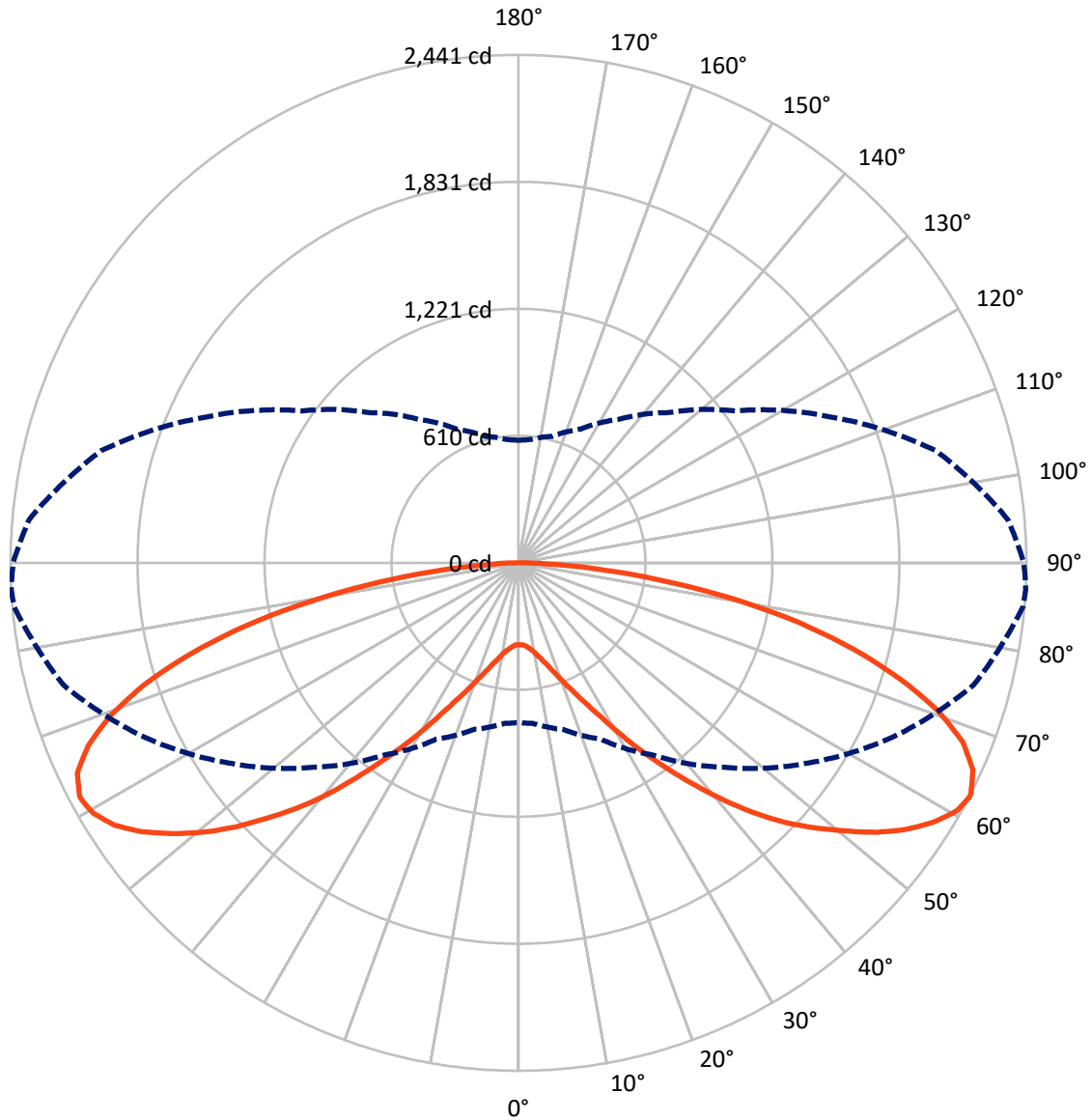
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.7 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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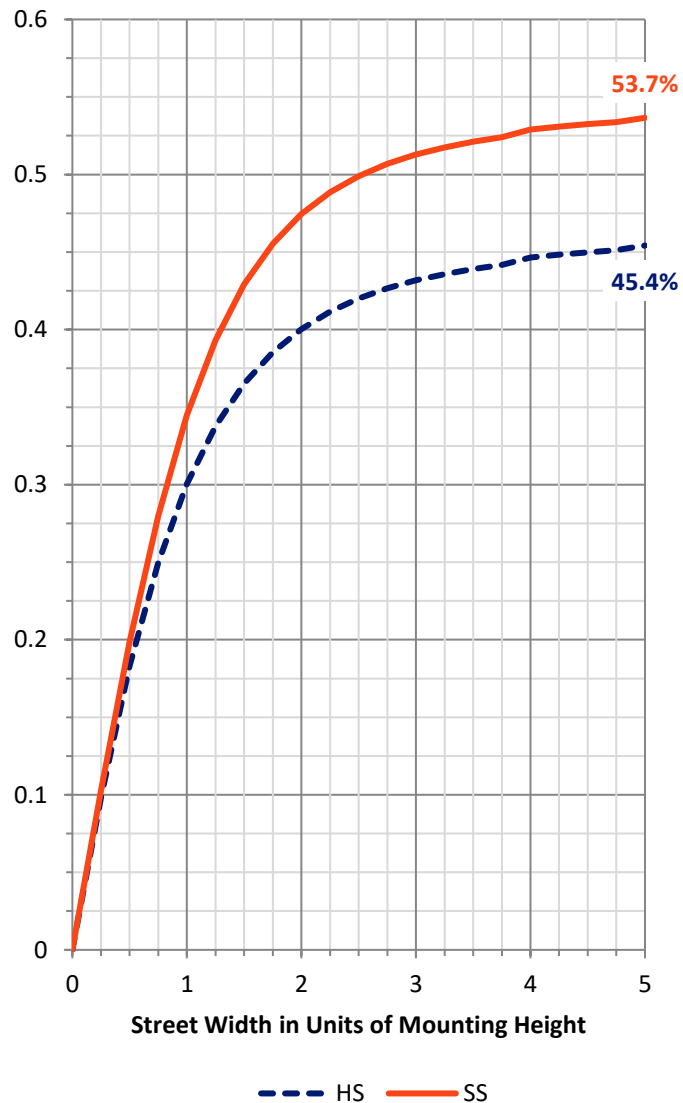
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2557.4	0.0	2557.4
	% Fixture	46.0	0.0	46.0
Street Side	Lumens	2997.1	0.0	2997.1
	% Fixture	54.0	0.0	54.0
Total	Lumens	5554.5	0.0	5554.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.6	0.7
10°-20°	139.6	2.5
20°-30°	298.4	5.4
30°-40°	550.0	9.9
40°-50°	877.1	15.8
50°-60°	1192.8	21.5
60°-70°	1292.3	23.3
70°-80°	923.4	16.6
80°-90°	241.3	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°	5554.5	100.0
0°-180°	5554.5	100.0

Coefficient of Utilization



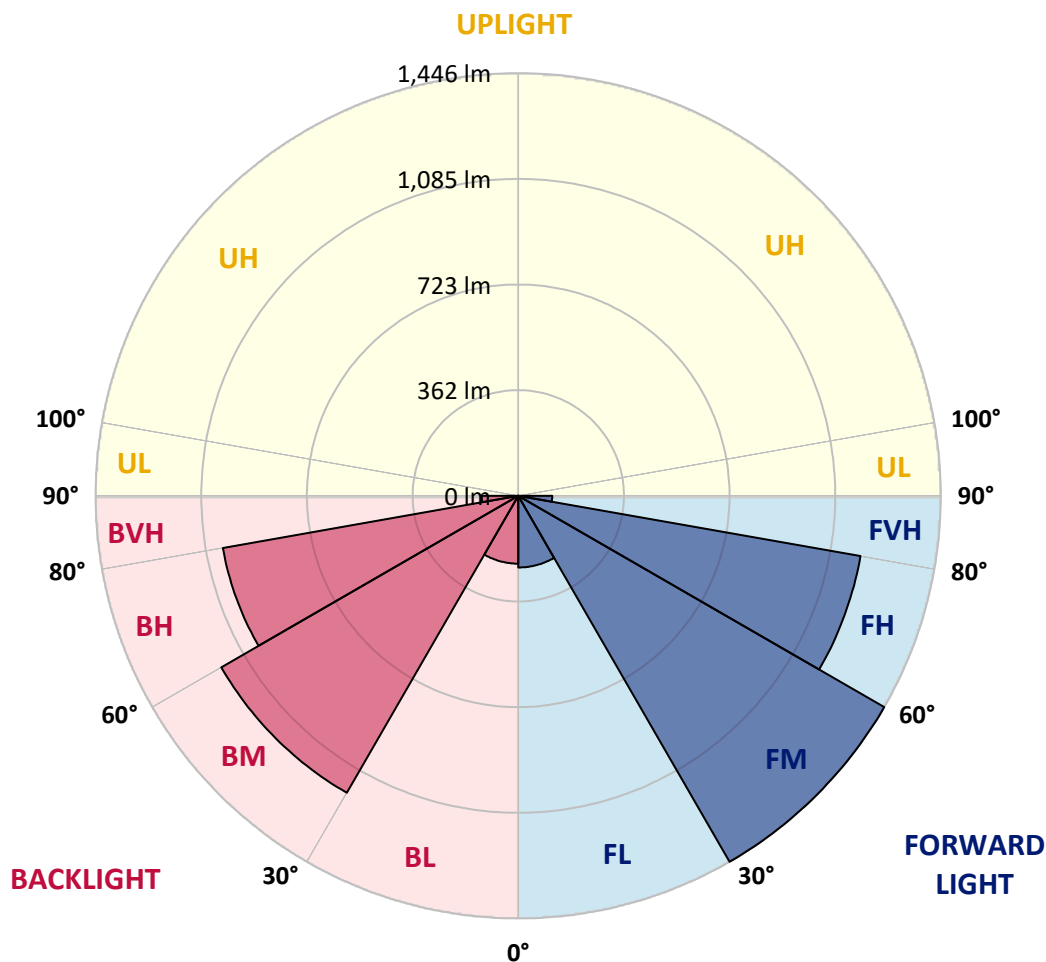
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	245.3	4.4			
FM (30°-60°)	1446.3	26.0			
FH (60°-80°)	1189.2	21.4			G1/1800
FVH (80°-90°)	116.2	2.1			G2/225
BL (0°-30°)	232.3	4.2	B1/500		
BM (30°-60°)	1173.6	21.1	B2/2500		
BH (60°-80°)	1026.5	18.5	B3/2500		G3/2500
BVH (80°-90°)	125.1	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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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	87°
0°	393.1	393.1	393.1	393.1	393.1	393.1	393.1	393.1	393.1	393.1	393.1
2.5°	394.0	394.0	394.0	394.0	394.0	394.0	394.0	394.0	394.0	394.9	394.9
5°	396.7	395.8	395.8	396.7	397.6	398.5	400.3	401.2	402.9	404.7	403.8
7.5°	404.7	404.7	404.7	405.6	408.3	410.1	412.8	415.5	418.2	420.0	419.1
10°	417.3	417.3	417.3	419.1	421.8	427.1	431.6	436.1	438.8	440.6	441.5
12.5°	430.7	430.7	432.5	436.1	441.5	448.6	456.7	462.9	467.4	469.2	470.1
15°	449.5	450.4	454.0	457.6	464.7	475.5	488.9	497.9	502.3	505.9	505.0
17.5°	478.2	477.3	480.0	488.0	496.1	511.3	527.4	542.6	551.6	551.6	551.6
20°	510.4	509.5	511.3	517.6	531.0	551.6	576.7	597.3	607.1	605.3	607.1
22.5°	546.2	546.2	548.0	553.4	566.8	596.4	631.3	661.7	675.2	670.7	668.9
25°	585.6	585.6	588.3	592.8	611.6	647.4	694.0	737.8	751.3	746.8	745.0
27.5°	631.3	627.7	633.1	637.6	660.8	708.3	769.2	824.7	854.2	839.0	833.7
30°	679.6	677.0	677.8	686.8	713.7	774.6	847.1	921.4	962.6	952.7	944.7
32.5°	721.7	723.5	726.2	741.4	771.9	845.3	929.5	1027.1	1073.6	1070.9	1069.2
35°	769.2	769.2	774.6	788.9	833.7	920.5	1022.6	1132.7	1201.7	1204.4	1199.0
37.5°	806.8	806.8	814.8	833.7	886.5	989.5	1114.8	1244.7	1327.9	1342.3	1337.8
40°	839.9	838.1	847.1	874.8	936.6	1062.9	1205.3	1355.7	1467.6	1491.8	1485.5
42.5°	859.6	861.4	873.9	908.9	985.0	1127.4	1293.9	1460.5	1591.2	1632.4	1632.4
45°	873.9	875.7	894.5	935.7	1028.9	1190.9	1374.5	1567.9	1712.1	1772.1	1774.8
47.5°	880.2	882.9	906.2	956.3	1065.6	1249.1	1452.4	1664.6	1820.4	1905.5	1900.1
50°	880.2	883.8	911.6	971.5	1098.7	1298.4	1525.8	1756.8	1930.6	2025.5	2024.6
52.5°	874.8	879.3	913.3	983.2	1126.5	1345.8	1591.2	1835.6	2036.2	2148.2	2151.7
55°	864.1	869.5	908.9	990.4	1148.0	1383.5	1644.0	1909.1	2127.6	2253.8	2261.9
57.5°	842.6	848.0	892.8	984.1	1156.0	1403.1	1682.5	1961.0	2201.9	2349.6	2351.4
60°	806.8	813.1	861.4	963.5	1148.0	1404.0	1692.4	1984.3	2252.0	2414.1	2420.4
62°	767.4	774.6	829.2	934.8	1127.4	1389.7	1681.6	1983.4	2265.5	2432.9	2441.0
62.5°	757.5	763.8	819.3	925.0	1119.3	1382.6	1675.4	1978.9	2263.7	2433.8	2440.1
65°	696.6	702.9	759.3	871.3	1070.0	1338.7	1629.7	1939.5	2231.4	2398.0	2399.8
67.5°	629.5	635.8	692.2	797.8	999.3	1265.3	1552.7	1861.6	2145.5	2289.6	2303.1
70°	551.6	560.5	612.5	717.2	906.2	1159.6	1430.9	1738.0	2008.5	2131.1	2143.7
72.5°	474.6	480.8	522.0	614.3	785.3	1020.8	1273.3	1550.9	1797.1	1913.5	1924.3
75°	385.0	390.4	430.7	506.8	650.1	850.7	1088.9	1331.5	1555.4	1660.1	1668.2
77.5°	303.6	305.3	334.0	394.9	505.0	667.1	864.1	1055.7	1259.0	1353.9	1375.4
80°	214.0	223.0	242.7	284.7	354.6	478.2	620.5	784.4	926.8	1033.3	1040.5
82.5°	138.8	140.6	153.1	168.3	218.5	301.8	394.9	496.1	623.2	692.2	686.8
85°	72.5	72.5	77.0	81.5	98.5	135.2	190.7	261.5	335.8	387.7	380.6
87.5°	12.5	11.6	12.5	11.6	15.2	21.5	40.3	65.4	98.5	116.4	128.0
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°	393.1	393.1	393.1	393.1	393.1	393.1	393.1	393.1	393.1	393.1	393.1
2.5°	394.9	394.9	395.8	397.6	397.6	398.5	399.4	399.4	400.3	401.2	401.2
5°	405.6	405.6	406.5	408.3	409.2	409.2	410.1	411.0	411.0	411.0	411.9
7.5°	420.0	420.9	421.8	422.6	423.5	423.5	426.2	425.3	425.3	425.3	425.3
10°	440.6	442.3	442.3	442.3	442.3	441.5	442.3	441.5	439.7	439.7	438.8
12.5°	471.0	471.0	469.2	467.4	464.7	463.8	462.9	460.3	456.7	454.9	454.9
15°	505.9	504.1	500.5	497.0	492.5	488.9	482.6	479.1	474.6	472.8	472.8
17.5°	550.7	548.0	538.2	531.0	520.2	512.2	505.0	497.9	492.5	490.7	489.8
20°	601.7	595.5	581.1	565.0	550.7	538.2	524.7	515.8	510.4	505.9	505.0
22.5°	666.2	657.3	632.2	607.1	581.1	563.2	546.2	533.7	523.8	519.4	517.6
25°	736.0	722.6	690.4	652.8	617.0	589.2	567.7	550.7	539.1	531.9	530.1
27.5°	824.7	805.0	757.5	701.1	653.7	618.7	589.2	569.5	554.3	543.5	541.7
30°	928.6	908.0	829.2	754.9	694.9	645.6	613.4	587.4	568.6	556.1	553.4
32.5°	1052.1	1014.5	924.1	819.3	736.9	677.0	635.8	605.3	582.0	567.7	564.1
35°	1177.5	1139.0	1019.9	887.4	781.7	709.2	659.9	623.2	597.3	579.3	577.6
37.5°	1318.1	1271.5	1131.8	964.4	830.1	743.2	682.3	640.2	608.9	590.1	588.3
40°	1469.4	1422.0	1251.8	1053.0	887.4	776.3	703.8	656.4	621.4	600.8	598.2
42.5°	1618.1	1561.6	1373.6	1141.7	945.6	813.1	728.9	673.4	632.2	610.7	607.1
45°	1747.0	1697.7	1497.2	1243.8	1012.7	850.7	754.0	689.5	643.8	619.6	616.1
47.5°	1893.0	1840.1	1632.4	1337.8	1077.2	893.6	778.1	703.8	653.7	627.7	625.0
50°	2021.9	1974.4	1752.4	1424.6	1139.0	933.9	800.5	717.2	661.7	634.0	630.4
52.5°	2139.2	2097.1	1862.5	1506.1	1191.8	971.5	821.1	727.1	667.1	636.7	632.2
55°	2257.4	2202.8	1958.3	1577.8	1233.9	1001.1	838.1	731.6	666.2	634.9	630.4
57.5°	2346.0	2294.1	2028.2	1628.8	1265.3	1020.8	848.0	730.7	660.8	626.8	621.4
60°	2406.0	2348.7	2069.4	1653.9	1276.0	1027.1	848.0	722.6	647.4	610.7	605.3
62°	2428.4	2362.2	2077.4	1657.5	1271.5	1020.8	841.7	709.2	629.5	593.7	588.3
62.5°	2429.3	2361.3	2074.7	1654.8	1268.8	1018.1	838.1	704.7	625.0	588.3	582.9
65°	2389.9	2321.9	2042.5	1627.0	1238.4	993.9	813.1	678.7	593.7	557.9	552.5
67.5°	2277.1	2225.2	1965.5	1562.5	1186.5	949.2	776.3	641.1	557.0	519.4	516.7
70°	2120.4	2072.9	1840.1	1464.9	1111.2	884.7	721.7	591.0	510.4	476.4	470.1
72.5°	1923.4	1861.6	1661.9	1334.2	1002.9	796.0	650.1	528.3	456.7	426.2	422.6
75°	1678.9	1604.6	1438.1	1161.4	873.1	689.5	566.8	458.5	394.9	368.9	371.6
77.5°	1367.3	1332.4	1162.3	925.9	711.0	570.4	464.7	388.6	334.0	312.5	310.7
80°	1032.4	999.3	880.2	702.9	537.3	431.6	360.0	306.2	268.6	249.8	248.9
82.5°	700.2	668.9	578.5	471.9	366.2	305.3	260.6	225.7	202.4	193.4	193.4
85°	385.0	358.2	306.2	255.2	206.8	174.6	168.3	150.4	144.2	142.4	144.2
87.5°	120.0	119.1	101.2	83.3	72.5	73.4	66.3	68.1	64.5	63.6	68.1
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)