

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: P472220

Luminaire Tested: **CCW-VA-4-730-U-T2**

Issue Date: 01/27/2021

Test Information

Test Method: LM-79-08
Report Number: P472220
Test Lab: INNOVATION CENTER(G3)
Issue Date: 01/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-VA-4-730-U-T2
Description: INVUE WALL PACK Wave Stream LUMINAIRE WITH T2 DISTRIBUTION LENS
Light Source: 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5518 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.54' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

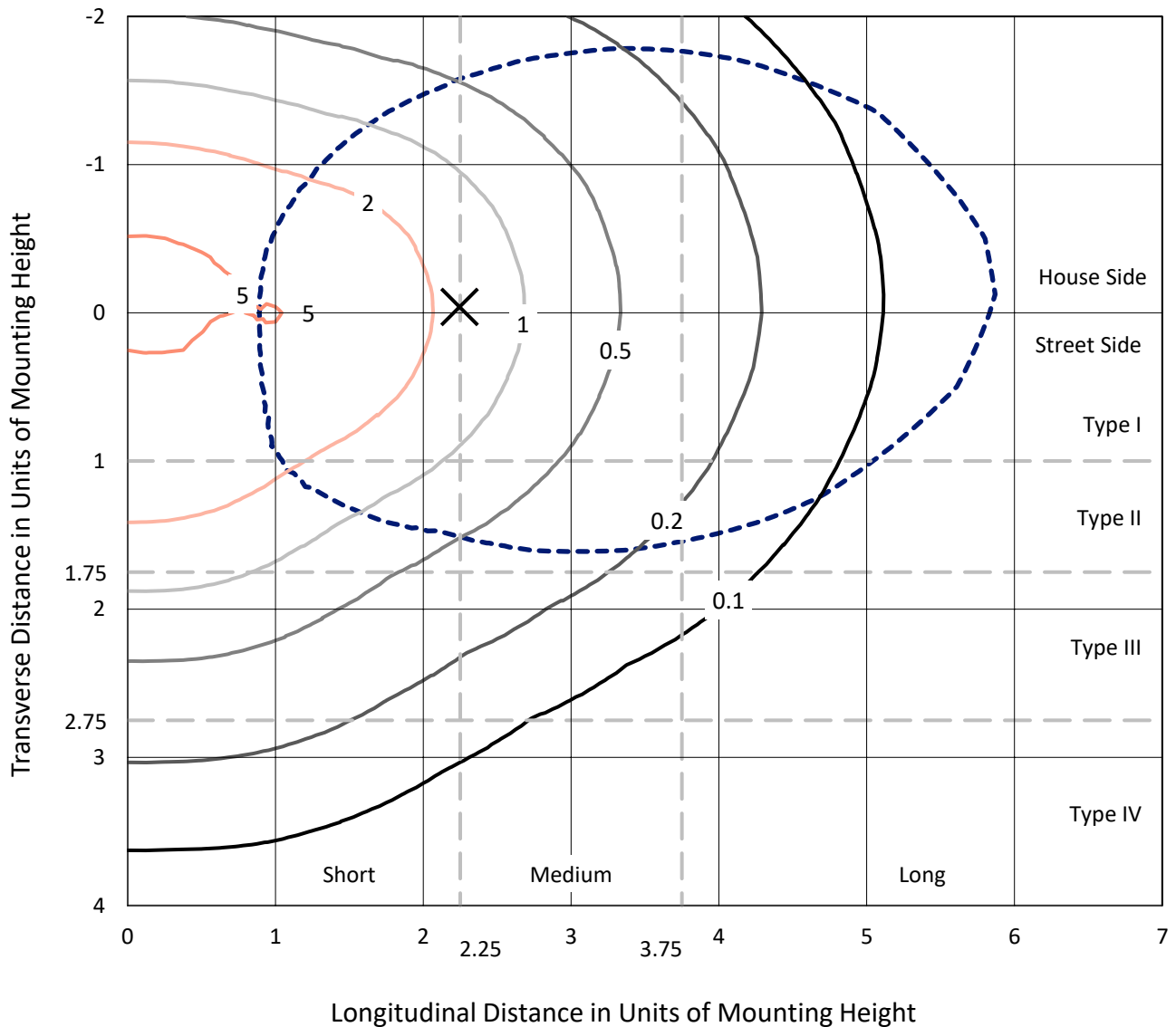
Input Watts (W): 64.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P472220
 CATALOG NUMBER: CCW-VA-4-730-U-T2

Iso-Footcandle Lines of Horizontal Illumination

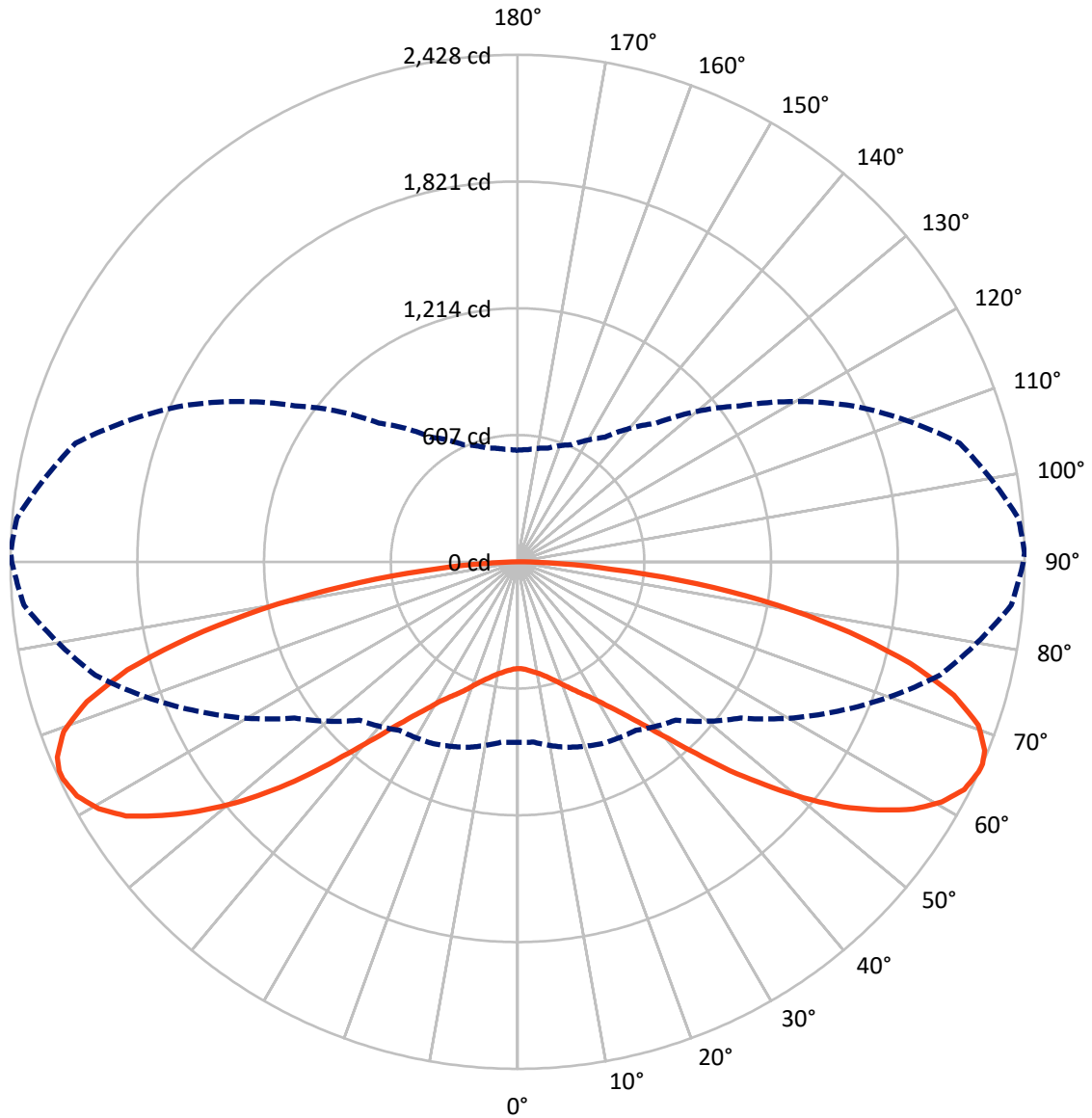
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Short - N/A

REPORT NUMBER: P472220
CATALOG NUMBER: CCW-VA-4-730-U-T2

Luminous Intensity Polar Plot



— Vertical Plane Through 91-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P472220
 CATALOG NUMBER: CCW-VA-4-730-U-T2

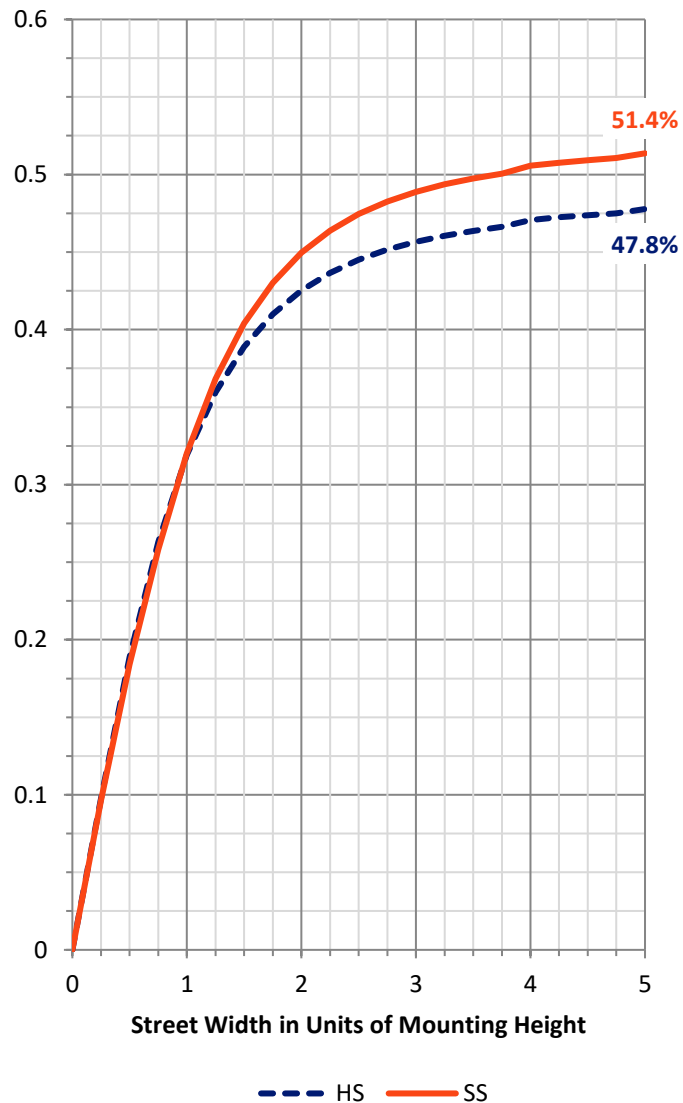
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2663.3	0.0	2663.3
	% Fixture	48.3	0.0	48.3
Street Side	Lumens	2854.7	0.0	2854.7
	% Fixture	51.7	0.0	51.7
Total	Lumens	5518.0	0.0	5518.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.3	0.9
10°-20°	164.7	3.0
20°-30°	318.6	5.8
30°-40°	522.7	9.5
40°-50°	828.0	15.0
50°-60°	1141.7	20.7
60°-70°	1282.1	23.2
70°-80°	958.2	17.4
80°-90°	251.8	4.6
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°	5518.0	100.0
0°-180°	5518.0	100.0

Coefficient of Utilization



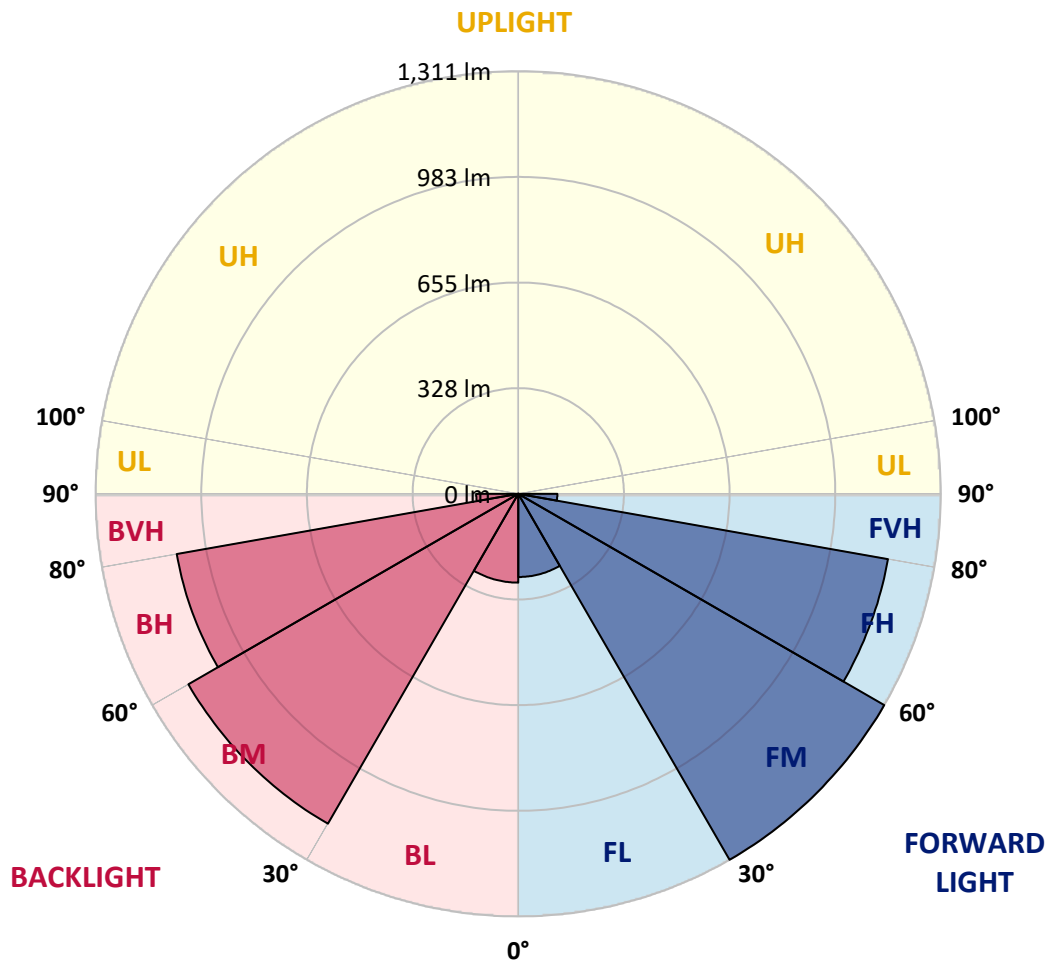
REPORT NUMBER: P472220
 CATALOG NUMBER: CCW-VA-4-730-U-T2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	258.0	4.7			
FM (30°-60°)	1310.9	23.8			
FH (60°-80°)	1164.6	21.1			G1/1800
FVH (80°-90°)	121.2	2.2			G2/225
BL (0°-30°)	275.6	5.0	B1/500		
BM (30°-60°)	1181.5	21.4	B2/2500		
BH (60°-80°)	1075.7	19.5	B3/2500		G3/2500
BVH (80°-90°)	130.5	2.4			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 II Short





REPORT NUMBER: P472220
 CATALOG NUMBER: CCW-VA-4-730-U-T2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3
2.5°	513.3	513.3	513.3	513.3	515.2	515.2	515.2	515.2	515.2	513.3	513.3
5°	517.2	517.2	517.2	517.2	519.1	519.1	519.1	519.1	521.1	521.1	521.1
7.5°	521.1	521.1	523.0	523.0	525.0	525.0	526.9	526.9	528.9	530.8	530.8
10°	528.9	528.9	530.8	530.8	534.7	536.7	538.6	538.6	542.5	542.5	542.5
12.5°	538.6	540.6	542.5	544.5	548.4	550.3	552.3	554.2	556.2	558.1	558.1
15°	554.2	552.3	556.2	560.1	562.0	565.9	567.9	569.9	573.8	577.7	577.7
17.5°	565.9	567.9	569.9	573.8	577.7	583.5	587.4	591.3	595.2	599.1	599.1
20°	581.6	579.6	587.4	593.3	597.2	605.0	610.8	618.6	622.5	626.4	628.4
22.5°	595.2	597.2	601.1	608.9	616.7	628.4	640.1	646.0	651.8	655.7	661.6
25°	612.8	614.7	620.6	628.4	640.1	653.8	667.4	675.2	681.1	688.9	694.7
27.5°	630.3	630.3	640.1	651.8	665.5	683.0	698.7	706.5	716.2	726.0	729.9
30°	649.9	649.9	659.6	675.2	694.7	714.3	727.9	743.5	757.2	767.0	774.8
32.5°	679.1	679.1	690.8	706.5	727.9	751.3	770.9	786.5	804.0	821.6	837.2
35°	712.3	714.3	729.9	749.4	774.8	804.0	821.6	843.1	862.6	891.9	907.5
37.5°	765.0	767.0	784.5	809.9	835.3	866.5	895.8	921.1	950.4	983.6	995.3
40°	843.1	848.9	866.5	878.2	901.6	925.0	968.0	1010.9	1061.6	1106.5	1114.3
42.5°	983.6	977.7	966.0	962.1	968.0	993.3	1040.2	1106.5	1196.3	1252.9	1252.9
45°	1038.2	1038.2	1040.2	1036.3	1032.4	1049.9	1104.6	1210.0	1336.8	1414.9	1430.5
47.5°	1048.0	1049.9	1067.5	1083.1	1087.0	1106.5	1172.9	1311.4	1481.2	1596.4	1606.1
50°	1048.0	1051.9	1075.3	1102.6	1122.1	1149.5	1231.4	1401.2	1623.7	1756.4	1781.8
52.5°	1044.1	1048.0	1073.3	1106.5	1137.7	1176.8	1282.2	1494.9	1750.5	1930.1	1941.8
55°	1034.3	1038.2	1069.4	1104.6	1139.7	1192.4	1323.1	1574.9	1873.5	2074.5	2096.0
57.5°	1022.6	1028.5	1061.6	1098.7	1131.9	1196.3	1350.5	1637.3	1973.0	2203.3	2242.3
60°	999.2	1008.9	1046.0	1083.1	1114.3	1182.6	1364.1	1686.1	2047.2	2297.0	2336.0
62.5°	952.4	962.1	1003.1	1044.1	1075.3	1149.5	1356.3	1709.6	2090.1	2355.5	2396.5
65°	893.8	897.7	942.6	985.5	1016.8	1094.8	1323.1	1705.6	2099.9	2375.0	2421.9
66°	864.5	866.5	919.2	960.2	985.5	1071.4	1303.6	1692.0	2094.0	2373.1	2421.9
67.5°	811.8	821.6	866.5	909.4	938.7	1018.7	1256.8	1660.8	2070.6	2353.6	2404.3
70°	720.1	727.9	765.0	807.9	839.2	915.3	1155.3	1569.0	1984.7	2273.5	2332.1
72.5°	620.6	626.4	665.5	696.7	716.2	798.2	1032.4	1418.8	1834.5	2123.3	2179.9
75°	515.2	519.1	554.2	575.7	593.3	665.5	868.4	1225.6	1598.3	1879.3	1953.5
77.5°	405.9	407.9	437.1	456.7	456.7	519.1	688.9	993.3	1311.4	1571.0	1625.6
80°	298.6	296.6	314.2	324.0	329.8	370.8	495.7	729.9	999.2	1202.2	1254.8
82.5°	195.2	193.2	204.9	208.8	208.8	234.2	312.2	462.5	655.7	815.7	847.0
85°	103.4	107.3	105.4	105.4	105.4	115.1	156.1	242.0	349.3	437.1	458.6
87.5°	17.6	17.6	17.6	19.5	23.4	31.2	41.0	68.3	99.5	134.7	152.2
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: P472220
 CATALOG NUMBER: CCW-VA-4-730-U-T2

CANDELA DISTRIBUTION (continued):

	91°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3	511.3
2.5°	513.3	515.2	515.2	515.2	515.2	515.2	515.2	515.2	515.2	515.2	515.2
5°	521.1	521.1	521.1	523.0	523.0	523.0	523.0	523.0	523.0	523.0	523.0
7.5°	530.8	530.8	532.8	532.8	532.8	534.7	534.7	532.8	532.8	532.8	532.8
10°	542.5	542.5	544.5	546.4	546.4	548.4	548.4	546.4	546.4	544.5	544.5
12.5°	558.1	560.1	562.0	564.0	565.9	565.9	564.0	562.0	560.1	558.1	558.1
15°	577.7	579.6	581.6	585.5	585.5	585.5	583.5	581.6	577.7	575.7	577.7
17.5°	601.1	603.0	606.9	608.9	610.8	608.9	608.9	606.9	606.9	605.0	605.0
20°	630.3	632.3	638.2	640.1	640.1	642.1	647.9	651.8	657.7	659.6	659.6
22.5°	659.6	663.5	669.4	677.2	681.1	688.9	690.8	694.7	692.8	686.9	686.9
25°	694.7	698.7	710.4	720.1	727.9	731.8	727.9	722.1	712.3	704.5	702.6
27.5°	731.8	737.7	755.2	768.9	772.8	768.9	753.3	739.6	727.9	718.2	714.3
30°	778.7	788.4	807.9	815.7	813.8	798.2	774.8	757.2	739.6	727.9	726.0
32.5°	837.2	847.0	864.5	866.5	854.8	825.5	794.3	770.9	749.4	735.7	733.8
35°	907.5	917.2	927.0	921.1	888.0	850.9	811.8	778.7	757.2	741.6	741.6
37.5°	997.2	1003.1	1003.1	973.8	923.1	874.3	825.5	786.5	763.1	747.4	745.5
40°	1114.3	1112.4	1085.1	1028.5	962.1	895.8	835.3	794.3	765.0	749.4	747.4
42.5°	1254.8	1241.2	1182.6	1090.9	999.2	915.3	847.0	796.2	763.1	747.4	745.5
45°	1426.6	1403.2	1297.8	1163.1	1038.2	932.8	852.8	794.3	757.2	739.6	737.7
47.5°	1596.4	1582.7	1438.3	1239.2	1077.3	952.4	856.7	788.4	745.5	720.1	720.1
50°	1775.9	1742.7	1578.8	1331.0	1118.2	966.0	856.7	778.7	726.0	698.7	694.7
52.5°	1949.6	1916.4	1721.3	1422.7	1163.1	979.7	852.8	765.0	708.4	679.1	675.2
55°	2097.9	2070.6	1859.8	1526.1	1210.0	989.4	847.0	749.4	690.8	663.5	659.6
57.5°	2234.5	2207.2	1980.8	1613.9	1254.8	995.3	833.3	729.9	669.4	642.1	640.1
60°	2334.0	2312.6	2084.2	1695.9	1291.9	995.3	813.8	706.5	646.0	618.6	616.7
62.5°	2400.4	2378.9	2158.4	1750.5	1315.3	981.6	784.5	675.2	616.7	591.3	585.5
65°	2425.8	2406.3	2191.6	1772.0	1311.4	954.3	745.5	636.2	579.6	554.2	550.3
66°	2427.7	2406.3	2191.6	1768.1	1301.7	938.7	727.9	618.6	564.0	538.6	534.7
67.5°	2412.1	2392.6	2177.9	1748.6	1274.4	909.4	692.8	589.4	534.7	509.4	507.4
70°	2339.9	2324.3	2103.8	1674.4	1210.0	845.0	634.3	532.8	480.1	462.5	456.7
72.5°	2183.8	2166.2	1955.4	1535.9	1104.6	757.2	560.1	466.4	423.5	402.0	400.1
75°	1941.8	1934.0	1729.1	1352.4	952.4	651.8	474.2	394.2	359.1	343.5	343.5
77.5°	1625.6	1610.0	1436.3	1118.2	782.6	526.9	380.6	320.1	292.7	279.1	281.0
80°	1264.6	1252.9	1106.5	839.2	591.3	396.2	284.9	243.9	224.4	216.6	212.7
82.5°	866.5	835.3	737.7	556.2	384.5	267.4	197.1	169.8	160.0	158.1	156.1
85°	450.8	462.5	388.4	294.7	208.8	148.3	119.0	109.3	105.4	107.3	107.3
87.5°	148.3	152.2	117.1	89.8	68.3	52.7	44.9	42.9	37.1	41.0	42.9
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)