

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: P674887

Luminaire Tested: **CCW-SA-2D-830-U-T2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P674887
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-830-U-T2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T2 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8839.9 lumens
Efficiency: N/A
Efficacy: 109.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (A_{in}): 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: 25 FT

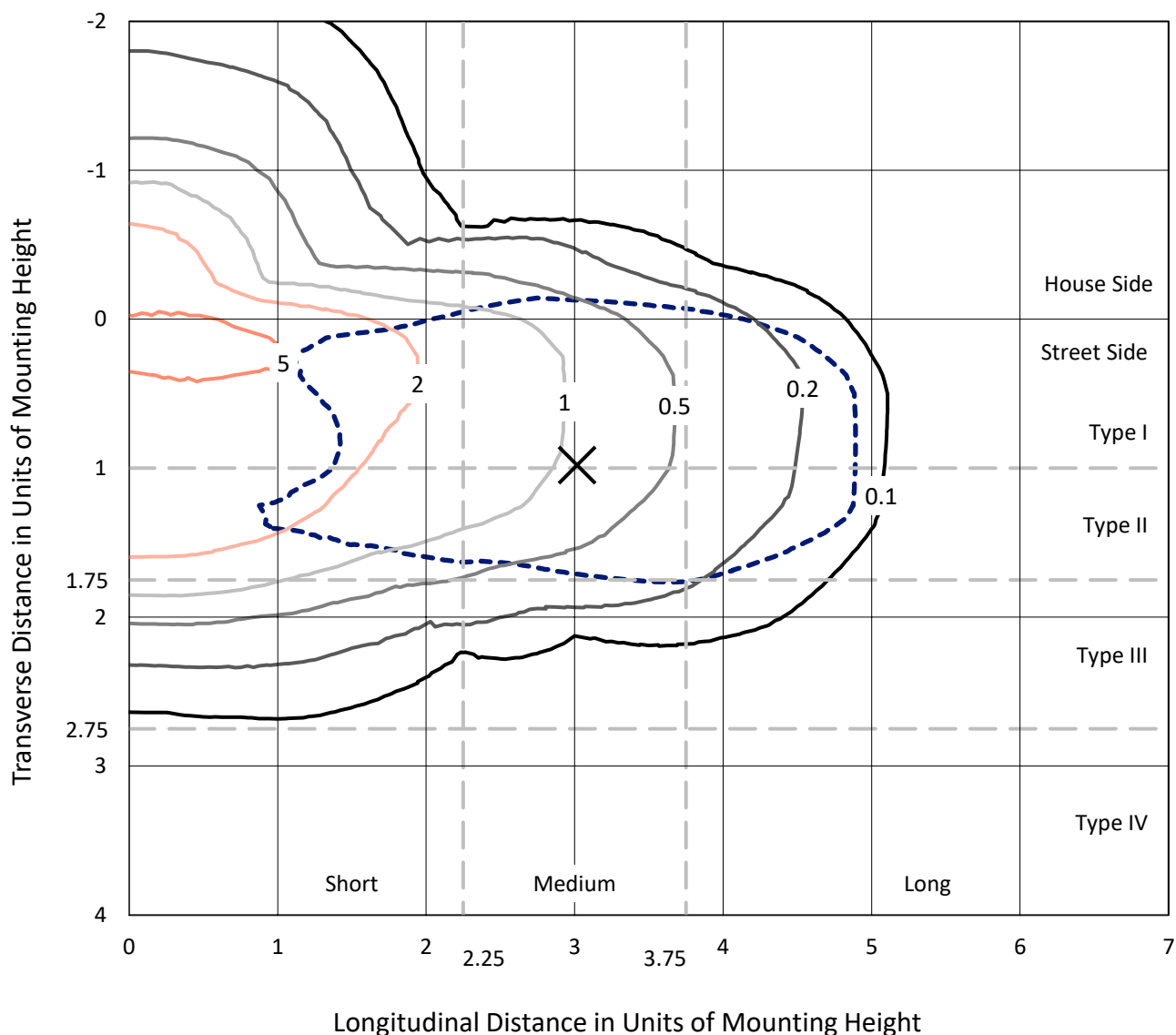
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

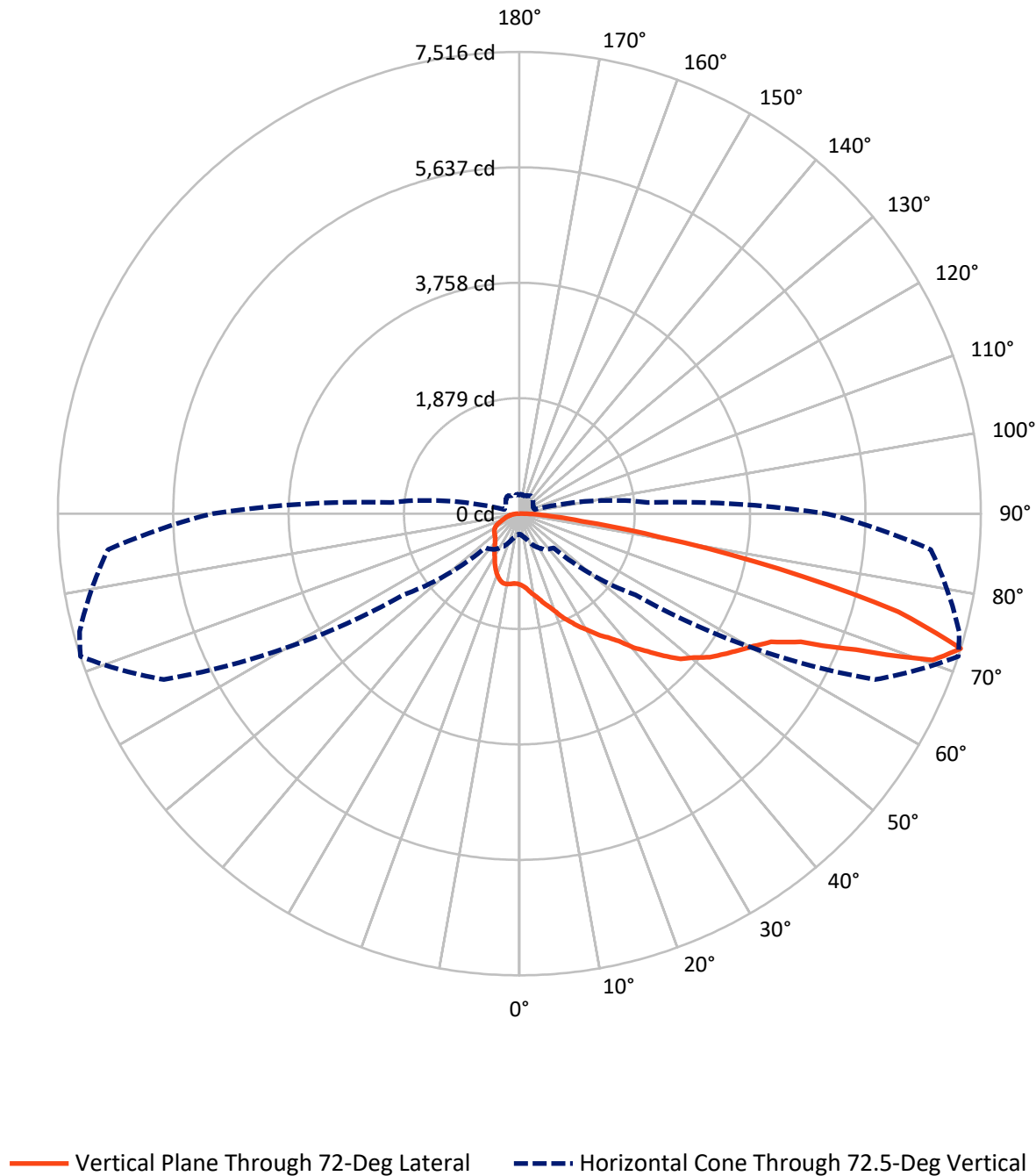
--- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1860.4	0.0	1860.4
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	6979.5	0.0	6979.5
	% Fixture	79.0	0.0	79.0
Total	Lumens	8839.9	0.0	8839.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.2	1.3
10°-20°	354.7	4.0
20°-30°	613.8	6.9
30°-40°	906.7	10.3
40°-50°	1348.4	15.3
50°-60°	1848.5	20.9
60°-70°	2005.1	22.7
70°-80°	1413.6	16.0
80°-90°	234.9	2.7
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°	8839.9	100.0
0°-180°	8839.9	100.0

Coefficient of Utilization



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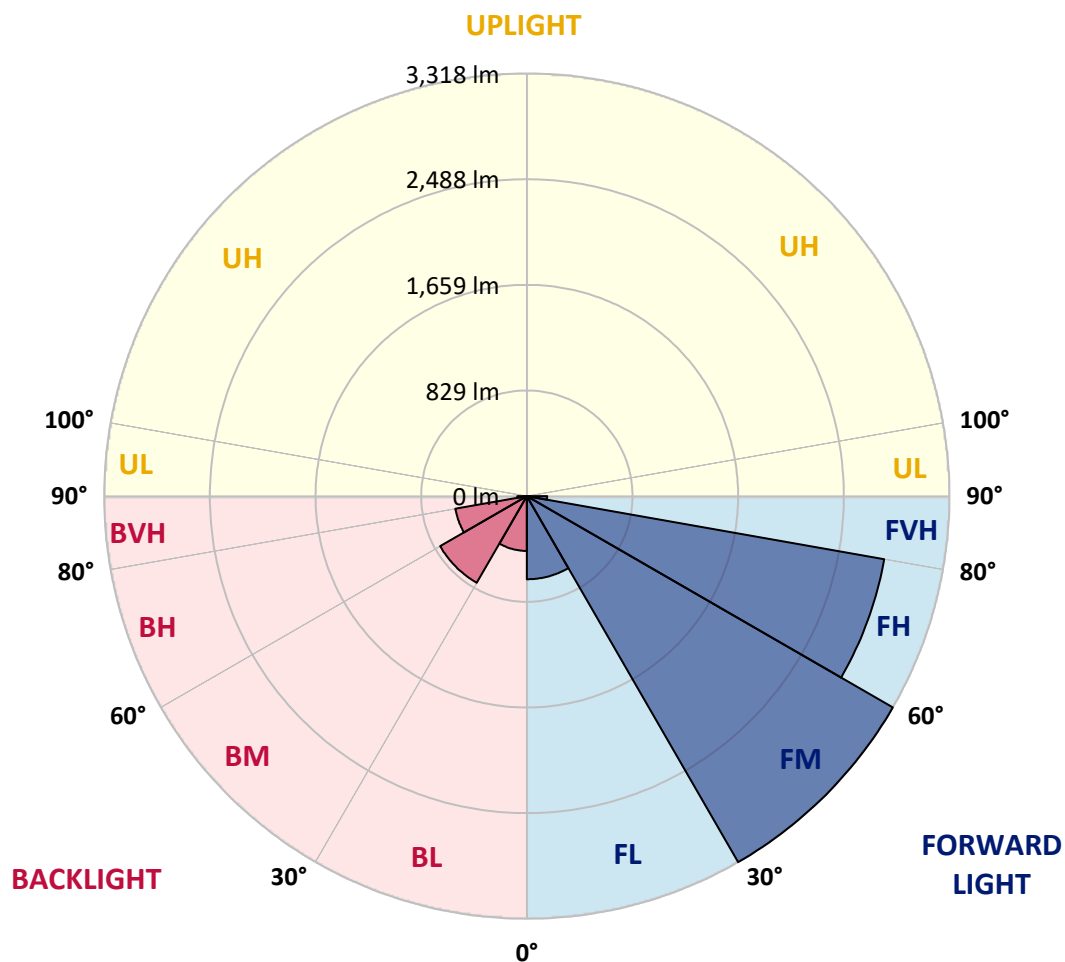
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	652.8	7.4			
FM	(30°-60°)	3317.8	37.5			
FH	(60°-80°)	2848.8	32.2			G2/5000
FVH	(80°-90°)	160.1	1.8			G2/225
BL	(0°-30°)	430.0	4.9	B1/500		
BM	(30°-60°)	785.8	8.9	B1/1000		
BH	(60°-80°)	569.9	6.4	B2/1000		G2/1000
BVH	(80°-90°)	74.7	0.8			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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1154.7	1154.7	1154.7	1154.7	1154.7	1154.7	1154.7	1154.7	1154.7	1154.7	1154.7
2.5°	1246.1	1246.1	1236.3	1233.0	1233.0	1206.9	1210.2	1193.9	1180.8	1180.8	1167.8
5°	1311.3	1304.8	1304.8	1304.8	1288.5	1278.7	1275.4	1246.1	1223.2	1226.5	1187.4
7.5°	1327.6	1330.9	1334.1	1350.5	1340.7	1347.2	1340.7	1308.0	1291.7	1275.4	1239.5
10°	1337.4	1343.9	1343.9	1366.8	1366.8	1383.1	1392.9	1379.8	1350.5	1334.1	1275.4
12.5°	1360.2	1350.5	1363.5	1379.8	1396.1	1425.5	1454.8	1441.8	1422.2	1402.6	1337.4
15°	1360.2	1363.5	1373.3	1399.4	1425.5	1454.8	1507.0	1526.6	1516.8	1480.9	1412.4
17.5°	1321.1	1311.3	1357.0	1405.9	1454.8	1490.7	1559.2	1604.9	1598.4	1585.3	1480.9
20°	1324.4	1334.1	1350.5	1392.9	1471.1	1536.4	1621.2	1696.2	1712.5	1706.0	1572.3
22.5°	1383.1	1386.3	1402.6	1422.2	1484.2	1569.0	1696.2	1816.9	1846.3	1830.0	1673.4
25°	1441.8	1467.9	1467.9	1480.9	1503.8	1591.8	1745.2	1914.8	1957.2	1960.4	1777.8
27.5°	1536.4	1542.9	1562.5	1569.0	1588.6	1640.8	1800.6	1986.5	2084.4	2071.3	1872.4
30°	1647.3	1650.6	1663.6	1657.1	1660.3	1725.6	1852.8	2068.1	2201.8	2205.1	1973.5
32.5°	1777.8	1803.9	1810.4	1768.0	1774.5	1790.8	1934.3	2165.9	2348.6	2325.8	2061.6
35°	1970.2	1980.0	1960.4	1940.9	1891.9	1882.2	2019.2	2263.8	2475.8	2501.9	2192.0
37.5°	2208.4	2234.4	2208.4	2104.0	2051.8	2012.6	2123.5	2371.4	2629.1	2717.2	2322.5
40°	2430.2	2426.9	2400.8	2306.2	2214.9	2185.5	2273.6	2521.5	2867.3	2952.1	2511.7
42.5°	2609.6	2599.8	2583.5	2511.7	2426.9	2378.0	2446.5	2678.1	3066.2	3229.3	2730.3
45°	2766.1	2753.1	2756.4	2674.8	2593.3	2619.4	2619.4	2857.5	3301.1	3503.4	2981.4
47.5°	2912.9	2919.5	2909.7	2847.7	2785.7	2854.2	2818.3	3063.0	3532.7	3757.8	3193.5
50°	3082.6	3095.6	3063.0	3023.8	2968.4	3036.9	2991.2	3255.4	3682.8	3989.4	3447.9
52.5°	3242.4	3255.4	3284.8	3235.9	3180.4	3235.9	3131.5	3434.8	3881.7	4214.5	3643.6
55°	3281.5	3275.0	3438.1	3490.3	3519.7	3353.3	3255.4	3588.2	4038.3	4358.0	3865.4
57.5°	3102.1	3118.4	3340.3	3490.3	3803.5	3659.9	3395.7	3767.6	4201.4	4547.2	4070.9
60°	2655.2	2665.0	2942.3	3297.8	3754.5	3947.0	3774.1	3999.2	4380.8	4707.0	4302.5
62.5°	1774.5	1849.5	2195.3	2753.1	3408.8	4025.3	4377.6	4390.6	4599.4	4909.3	4618.9
65°	936.2	972.1	1242.8	1693.0	2583.5	3754.5	4945.1	5167.0	5036.5	5281.1	5075.6
67.5°	613.2	626.3	773.1	1027.5	1490.7	2740.1	5010.4	6514.1	5913.9	5989.0	5806.3
70°	456.7	463.2	570.8	760.0	923.1	1464.6	4106.8	7143.7	7140.4	6941.5	6674.0
72.5°	336.0	345.8	420.8	580.6	711.1	789.4	2309.5	6390.2	7515.6	7414.4	6726.2
75°	264.2	270.7	309.9	450.2	574.1	518.7	1171.0	4733.1	6373.9	6859.9	6155.3
77.5°	215.3	221.8	244.6	326.2	459.9	401.2	561.1	3053.2	4322.1	4938.6	4710.3
80°	179.4	179.4	195.7	231.6	355.6	303.4	332.7	1715.8	2329.0	2570.4	2136.6
82.5°	153.3	150.1	163.1	169.6	264.2	218.6	215.3	776.3	1024.3	1086.2	802.4
85°	97.9	101.1	153.3	146.8	172.9	150.1	120.7	368.6	482.8	492.6	300.1
87.5°	39.1	39.1	65.2	81.5	97.9	91.3	58.7	166.4	212.0	212.0	84.8
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°	1154.7	1154.7	1154.7	1154.7	1154.7	1154.7	1154.7	1154.7	1154.7	1154.7	1154.7
2.5°	1164.5	1151.5	1141.7	1135.2	1118.9	1102.5	1105.8	1102.5	1089.5	1083.0	1083.0
5°	1177.6	1164.5	1148.2	1122.1	1105.8	1086.2	1092.8	1079.7	1066.7	1076.4	1060.1
7.5°	1210.2	1187.4	1164.5	1125.4	1099.3	1069.9	1056.9	1050.4	1040.6	1034.0	1034.0
10°	1255.9	1223.2	1180.8	1122.1	1079.7	1034.0	1027.5	1014.5	1004.7	1004.7	1001.4
12.5°	1301.5	1265.6	1193.9	1099.3	1027.5	994.9	991.6	994.9	1001.4	1004.7	1007.9
15°	1360.2	1301.5	1190.6	1056.9	985.1	972.1	988.4	1001.4	1014.5	1027.5	1024.3
17.5°	1415.7	1347.2	1161.3	1004.7	949.2	952.5	981.9	1007.9	1034.0	1047.1	1050.4
20°	1490.7	1389.6	1118.9	942.7	913.4	942.7	981.9	1014.5	1043.8	1060.1	1063.4
22.5°	1575.5	1438.5	1063.4	887.3	884.0	913.4	952.5	1001.4	1034.0	1063.4	1060.1
25°	1650.6	1471.1	991.6	841.6	848.1	867.7	913.4	965.5	998.2	1030.8	1021.0
27.5°	1699.5	1477.7	916.6	809.0	809.0	828.5	870.9	903.6	932.9	959.0	962.3
30°	1754.9	1464.6	831.8	766.6	766.6	792.7	809.0	828.5	844.8	851.4	857.9
32.5°	1820.2	1435.3	779.6	733.9	733.9	753.5	763.3	756.8	753.5	737.2	747.0
35°	1882.2	1392.9	720.9	691.5	704.6	714.4	711.1	691.5	672.0	642.6	632.8
37.5°	1957.2	1350.5	668.7	645.9	668.7	672.0	672.0	649.1	623.0	587.2	587.2
40°	2071.3	1317.8	626.3	616.5	639.3	636.1	619.8	603.5	613.2	593.7	593.7
42.5°	2192.0	1304.8	587.2	590.4	600.2	603.5	587.2	567.6	606.7	583.9	587.2
45°	2342.1	1314.6	561.1	557.8	580.6	577.4	567.6	551.3	564.3	505.6	489.3
47.5°	2482.4	1334.1	548.0	535.0	561.1	567.6	554.5	518.7	499.1	463.2	456.7
50°	2609.6	1376.5	535.0	508.9	535.0	548.0	525.2	486.0	463.2	440.4	440.4
52.5°	2730.3	1438.5	528.4	479.5	502.3	518.7	505.6	466.5	440.4	430.6	420.8
55°	2854.2	1494.0	518.7	459.9	466.5	499.1	495.8	443.6	417.5	417.5	414.3
57.5°	3030.4	1569.0	505.6	427.3	440.4	476.2	476.2	433.8	404.5	407.7	411.0
60°	3209.8	1657.1	492.6	394.7	404.5	453.4	459.9	420.8	394.7	398.0	394.7
62.5°	3496.8	1820.2	466.5	355.6	375.1	424.1	440.4	404.5	381.6	388.2	388.2
65°	3930.7	2100.7	411.0	322.9	345.8	398.0	420.8	388.2	362.1	381.6	375.1
67.5°	4628.7	2485.6	345.8	296.8	326.2	371.9	398.0	368.6	345.8	375.1	365.3
70°	5255.0	2674.8	296.8	274.0	296.8	342.5	371.9	349.0	326.2	355.6	342.5
72.5°	5000.6	2097.4	257.7	247.9	270.7	309.9	345.8	322.9	300.1	316.4	303.4
75°	4315.6	1670.1	225.1	221.8	241.4	280.5	316.4	300.1	277.3	283.8	277.3
77.5°	3271.8	1379.8	192.5	189.2	205.5	251.2	283.8	270.7	247.9	244.6	244.6
80°	1461.4	678.5	159.8	159.8	169.6	215.3	241.4	234.9	212.0	208.8	205.5
82.5°	479.5	257.7	130.5	124.0	137.0	179.4	215.3	208.8	185.9	179.4	172.9
85°	192.5	124.0	94.6	94.6	107.6	150.1	192.5	179.4	150.1	133.7	133.7
87.5°	65.2	52.2	48.9	48.9	68.5	101.1	143.5	120.7	107.6	94.6	97.9
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)