

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: P675094

Luminaire Tested: **CCW-SA-1F-727-U-T4FT**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675094
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-727-U-T4FT
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/
T4FT distribution lens
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

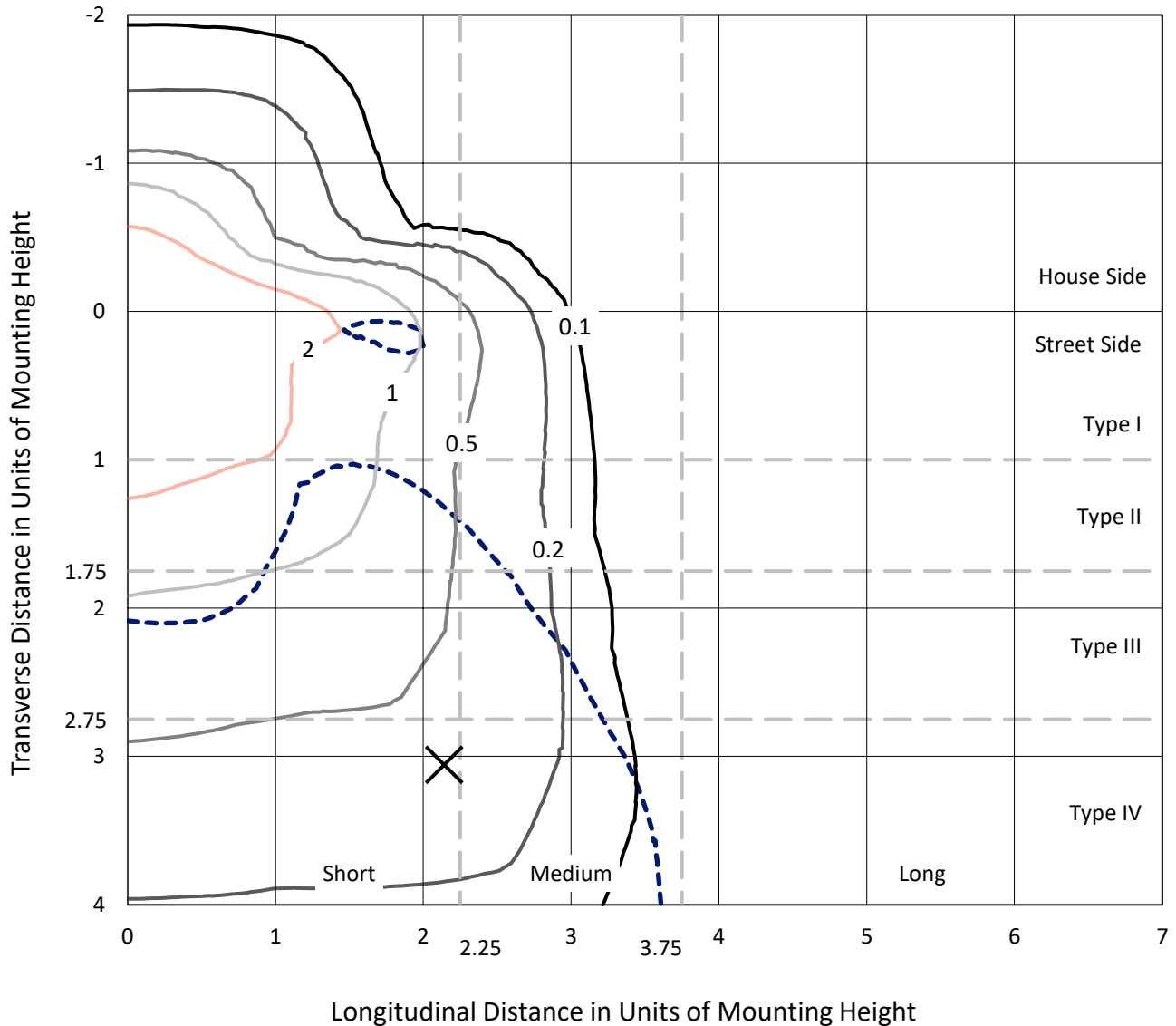
Lumens per Lamp: N/A
Luminaire Lumens: 6266.4 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
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

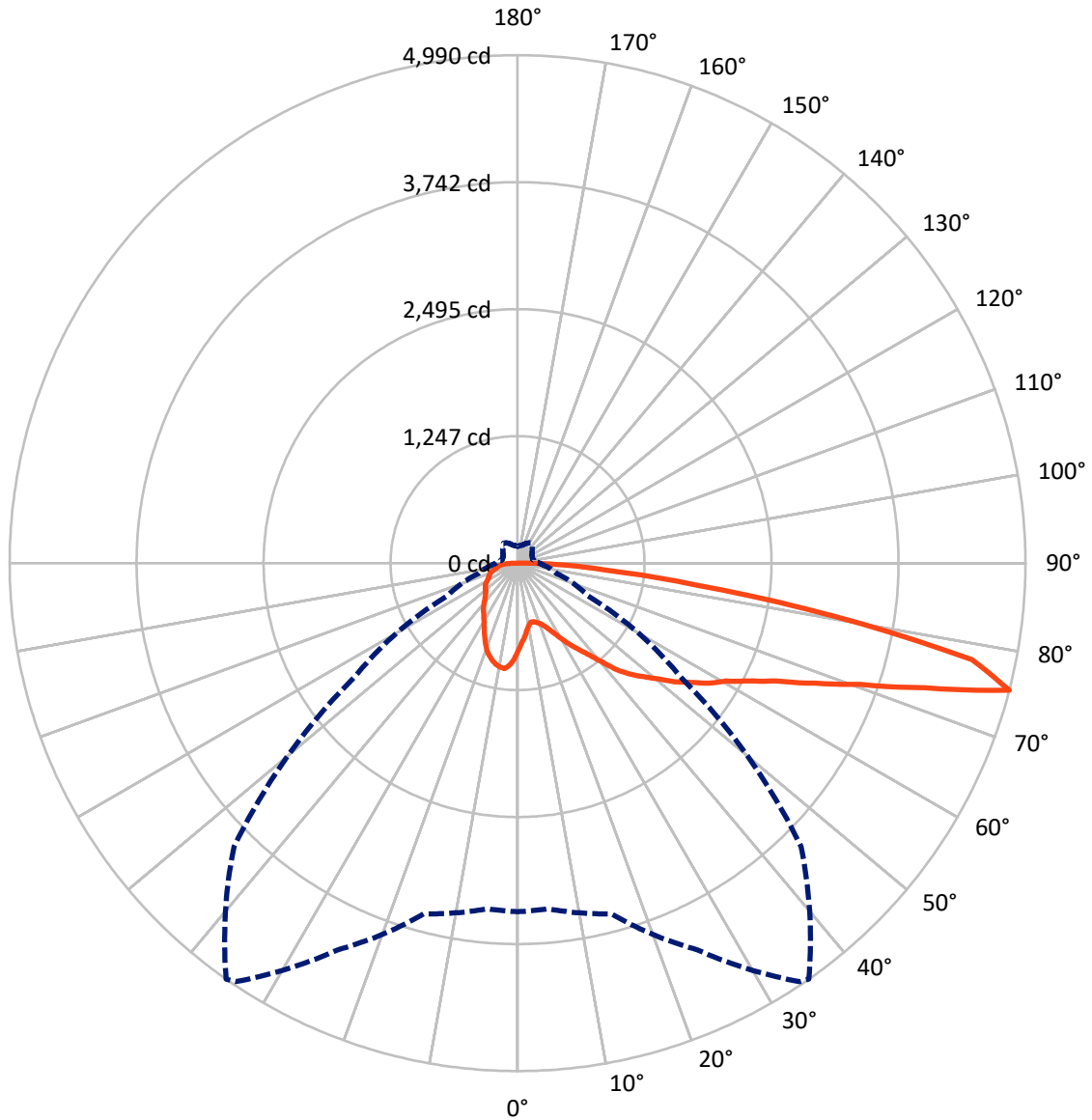
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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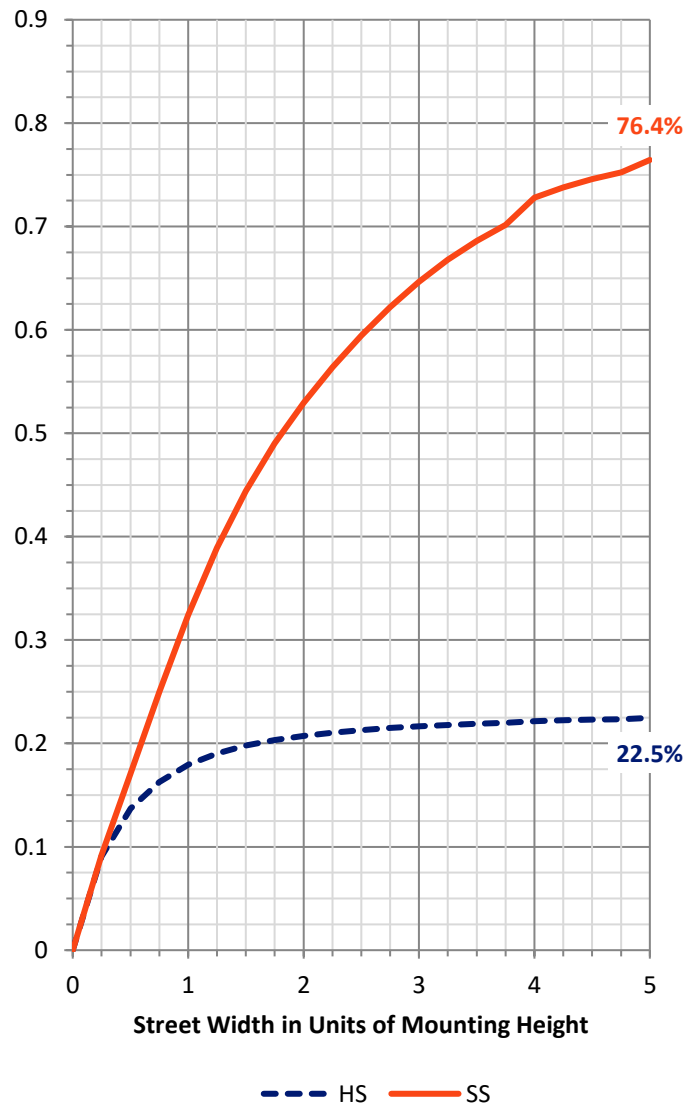
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1440.2	0.0	1440.2
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	4826.2	0.0	4826.2
	% Fixture	77.0	0.0	77.0
Total	Lumens	6266.4	0.0	6266.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.8	1.3
10°-20°	237.4	3.8
20°-30°	394.0	6.3
30°-40°	584.0	9.3
40°-50°	842.1	13.4
50°-60°	1158.0	18.5
60°-70°	1430.3	22.8
70°-80°	1308.5	20.9
80°-90°	230.4	3.7
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°	6266.4	100.0
0°-180°	6266.4	100.0



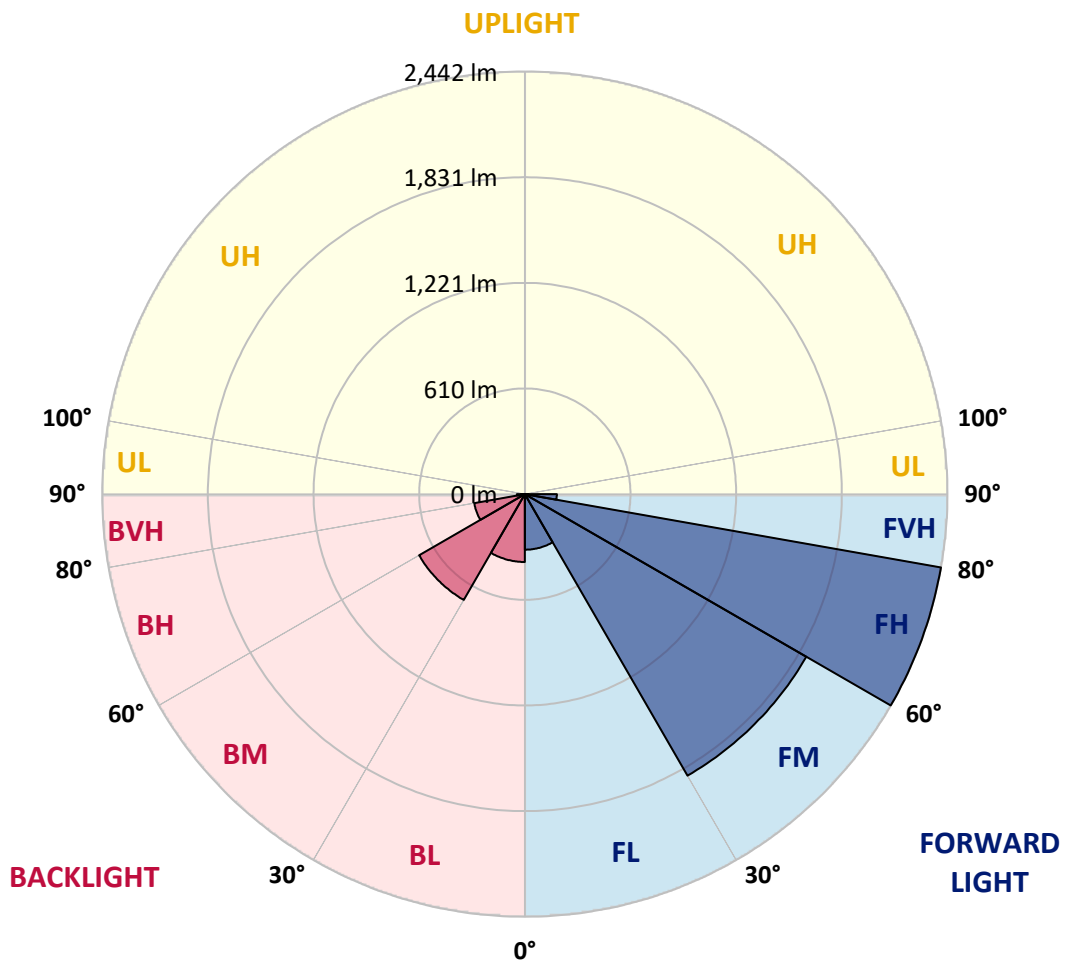
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	321.2	5.1			
FM (30°-60°)	1878.3	30.0			
FH (60°-80°)	2441.9	39.0			G2/5000
FVH (80°-90°)	184.9	3.0			G2/225
BL (0°-30°)	392.0	6.3	B1/500		
BM (30°-60°)	705.7	11.3	B1/1000		
BH (60°-80°)	297.0	4.7	B1/500		G1/500
BVH (80°-90°)	45.5	0.7			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°	34°	35°	45°	55°	65°	75°	85°
0°	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5
2.5°	777.8	770.8	777.8	782.4	782.4	782.4	789.3	810.1	823.9	833.2	849.3
5°	697.0	699.3	703.9	715.4	722.4	727.0	738.5	763.9	784.7	814.7	849.3
7.5°	625.4	630.1	637.0	648.5	664.7	662.4	687.8	722.4	761.6	800.8	851.6
10°	588.5	597.7	600.1	602.4	618.5	618.5	653.1	692.4	740.8	791.6	851.6
12.5°	595.4	595.4	588.5	586.2	595.4	593.1	623.1	669.3	722.4	793.9	860.8
15°	616.2	616.2	602.4	588.5	602.4	597.7	623.1	660.1	722.4	796.2	879.3
17.5°	643.9	646.2	630.1	607.0	611.6	613.9	632.4	667.0	722.4	800.8	904.7
20°	699.3	687.8	662.4	625.4	641.6	634.7	662.4	692.4	736.2	819.3	941.6
22.5°	747.8	747.8	699.3	667.0	669.3	669.3	694.7	720.1	757.0	844.7	969.3
25°	826.2	821.6	761.6	713.1	717.8	720.1	733.9	763.9	791.6	858.5	1003.9
27.5°	925.5	913.9	853.9	798.5	780.1	787.0	793.9	817.0	823.9	881.6	1045.5
30°	1031.6	1015.5	964.7	877.0	867.8	870.1	858.5	872.4	863.2	918.5	1087.0
32.5°	1098.6	1098.6	1050.1	985.5	960.1	960.1	920.9	930.1	930.1	953.2	1160.9
35°	1156.3	1151.6	1119.3	1070.9	1054.7	1045.5	1006.2	1020.1	997.0	1020.1	1264.7
37.5°	1244.0	1230.1	1216.3	1184.0	1151.6	1144.7	1123.9	1133.2	1100.9	1089.3	1382.4
40°	1345.5	1338.6	1324.7	1310.9	1278.6	1276.3	1253.2	1262.4	1227.8	1184.0	1500.1
42.5°	1495.5	1474.7	1430.9	1419.4	1426.3	1435.5	1426.3	1410.1	1347.8	1292.4	1627.1
45°	1645.5	1613.2	1530.1	1511.7	1564.8	1557.8	1597.1	1590.1	1488.6	1400.9	1760.9
47.5°	1742.5	1714.8	1647.8	1636.3	1659.4	1668.6	1786.3	1765.5	1604.0	1500.1	1890.2
50°	1811.7	1814.0	1726.3	1756.3	1786.3	1786.3	1934.0	1931.7	1744.8	1622.5	2058.6
52.5°	1913.2	1880.9	1844.0	1871.7	1913.2	1936.3	2118.7	2067.9	1832.5	1726.3	2247.9
55°	1966.3	1952.5	1920.2	1968.6	2056.3	2067.9	2261.7	2222.5	1931.7	1848.6	2441.8
57.5°	1987.1	1998.6	2051.7	2072.5	2194.8	2224.8	2391.0	2335.6	2024.0	2000.9	2591.8
60°	2079.4	2063.3	2134.8	2217.9	2335.6	2351.7	2552.5	2432.5	2114.0	2100.2	2640.2
62.5°	2266.4	2224.8	2264.0	2363.3	2527.1	2547.9	2723.3	2561.8	2153.3	2167.1	2637.9
65°	2538.7	2508.7	2451.0	2529.5	2760.2	2790.3	2924.1	2672.5	2141.7	2144.0	2451.0
67.5°	2859.5	2811.0	2751.0	2799.5	3081.0	3150.3	3168.7	2721.0	2061.0	2014.8	1994.0
70°	3141.1	3108.7	3069.5	3152.6	3544.9	3570.3	3473.4	2691.0	1837.1	1617.8	1329.3
72.5°	3404.2	3388.0	3411.1	3722.6	4172.7	4188.8	3759.6	2501.8	1451.7	980.9	618.5
75°	3424.9	3408.8	3568.0	4193.5	4959.7	4989.7	3937.3	1961.7	766.2	399.3	260.8
77.5°	2319.4	2367.9	2665.6	3671.9	4555.8	4562.7	3219.5	911.6	316.2	235.4	182.3
80°	570.1	632.4	1003.9	1899.4	3071.8	3148.0	1763.2	307.0	207.7	180.0	136.2
82.5°	207.7	226.2	408.5	858.5	1726.3	1756.3	616.2	166.2	150.0	138.5	99.2
85°	99.2	101.5	193.9	422.3	872.4	863.2	221.6	99.2	108.5	94.6	60.0
87.5°	41.5	41.5	85.4	196.2	385.4	373.9	71.5	46.2	62.3	55.4	30.0
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°	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5	858.5
2.5°	860.8	865.5	883.9	897.8	911.6	923.2	941.6	941.6	953.2	953.2	953.2
5°	858.5	883.9	913.9	946.2	967.0	987.8	1006.2	1008.6	1015.5	1024.7	1027.0
7.5°	867.8	893.2	941.6	987.8	1013.2	1022.4	1045.5	1038.6	1038.6	1038.6	1045.5
10°	886.2	913.9	980.9	1022.4	1040.9	1043.2	1036.2	1031.6	1017.8	1013.2	1006.2
12.5°	900.1	948.5	1015.5	1047.8	1040.9	1033.9	1017.8	994.7	978.5	973.9	973.9
15°	934.7	983.2	1045.5	1057.0	1045.5	1008.6	987.8	962.4	948.5	927.8	937.0
17.5°	964.7	1020.1	1075.5	1061.6	1038.6	980.9	950.9	913.9	895.5	872.4	872.4
20°	1003.9	1054.7	1103.2	1066.2	1015.5	953.2	904.7	858.5	833.2	810.1	814.7
22.5°	1047.8	1093.9	1119.3	1047.8	980.9	909.3	842.4	798.5	766.2	752.4	757.0
25°	1082.4	1133.2	1128.6	1017.8	939.3	853.9	780.1	738.5	731.6	717.8	717.8
27.5°	1126.3	1179.3	1121.6	980.9	870.1	766.2	720.1	703.9	703.9	697.0	701.6
30°	1184.0	1220.9	1105.5	927.8	782.4	687.8	664.7	673.9	690.1	683.1	685.4
32.5°	1278.6	1274.0	1091.6	867.8	690.1	611.6	627.7	646.2	660.1	667.0	671.6
35°	1370.9	1340.9	1075.5	787.0	604.7	574.7	588.5	609.3	634.7	641.6	643.9
37.5°	1463.2	1410.1	1047.8	687.8	551.6	542.4	556.2	567.7	588.5	593.1	597.7
40°	1560.1	1456.3	999.3	590.8	507.7	507.7	517.0	519.3	530.8	537.7	542.4
42.5°	1645.5	1500.1	911.6	500.8	461.6	477.7	480.0	475.4	466.2	470.8	473.1
45°	1749.4	1548.6	810.1	436.2	427.0	447.7	452.3	433.9	417.7	408.5	403.9
47.5°	1850.9	1599.4	722.4	383.1	394.7	427.0	427.0	406.2	378.5	355.4	346.2
50°	1943.3	1650.1	650.8	350.8	362.3	410.8	415.4	376.2	346.2	318.5	313.9
52.5°	2097.9	1735.5	577.0	325.4	343.9	399.3	397.0	362.3	323.1	293.1	290.8
55°	2234.0	1820.9	480.0	300.0	325.4	383.1	390.0	348.5	295.4	267.7	263.1
57.5°	2333.3	1841.7	383.1	274.6	307.0	364.6	373.9	320.8	276.9	253.9	251.6
60°	2351.7	1760.9	311.6	253.9	281.6	339.3	346.2	304.6	263.1	244.6	240.0
62.5°	2266.4	1606.3	265.4	235.4	260.8	313.9	327.7	286.2	249.3	233.1	230.8
65°	2072.5	1380.1	233.1	219.3	246.9	295.4	311.6	272.3	237.7	223.9	221.6
67.5°	1640.9	1059.3	207.7	207.7	228.5	276.9	300.0	263.1	226.2	216.9	214.6
70°	1073.2	637.0	189.2	191.6	214.6	260.8	286.2	251.6	212.3	210.0	205.4
72.5°	461.6	293.1	168.5	175.4	193.9	233.1	265.4	235.4	196.2	189.2	182.3
75°	212.3	177.7	152.3	156.9	173.1	205.4	240.0	216.9	182.3	170.8	163.9
77.5°	150.0	129.2	126.9	136.2	147.7	177.7	212.3	203.1	168.5	159.2	154.6
80°	110.8	99.2	106.2	115.4	122.3	163.9	200.8	186.9	154.6	140.8	133.9
82.5°	78.5	73.9	83.1	92.3	99.2	143.1	184.6	163.9	129.2	117.7	106.2
85°	46.2	48.5	57.7	62.3	69.2	106.2	154.6	131.6	99.2	76.2	73.9
87.5°	20.8	20.8	27.7	30.0	34.6	62.3	103.9	83.1	62.3	48.5	46.2
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)