

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: P674876

Luminaire Tested: **CCW-SA-2D-827-U-T2**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P674876
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-827-U-T2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/
T2 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

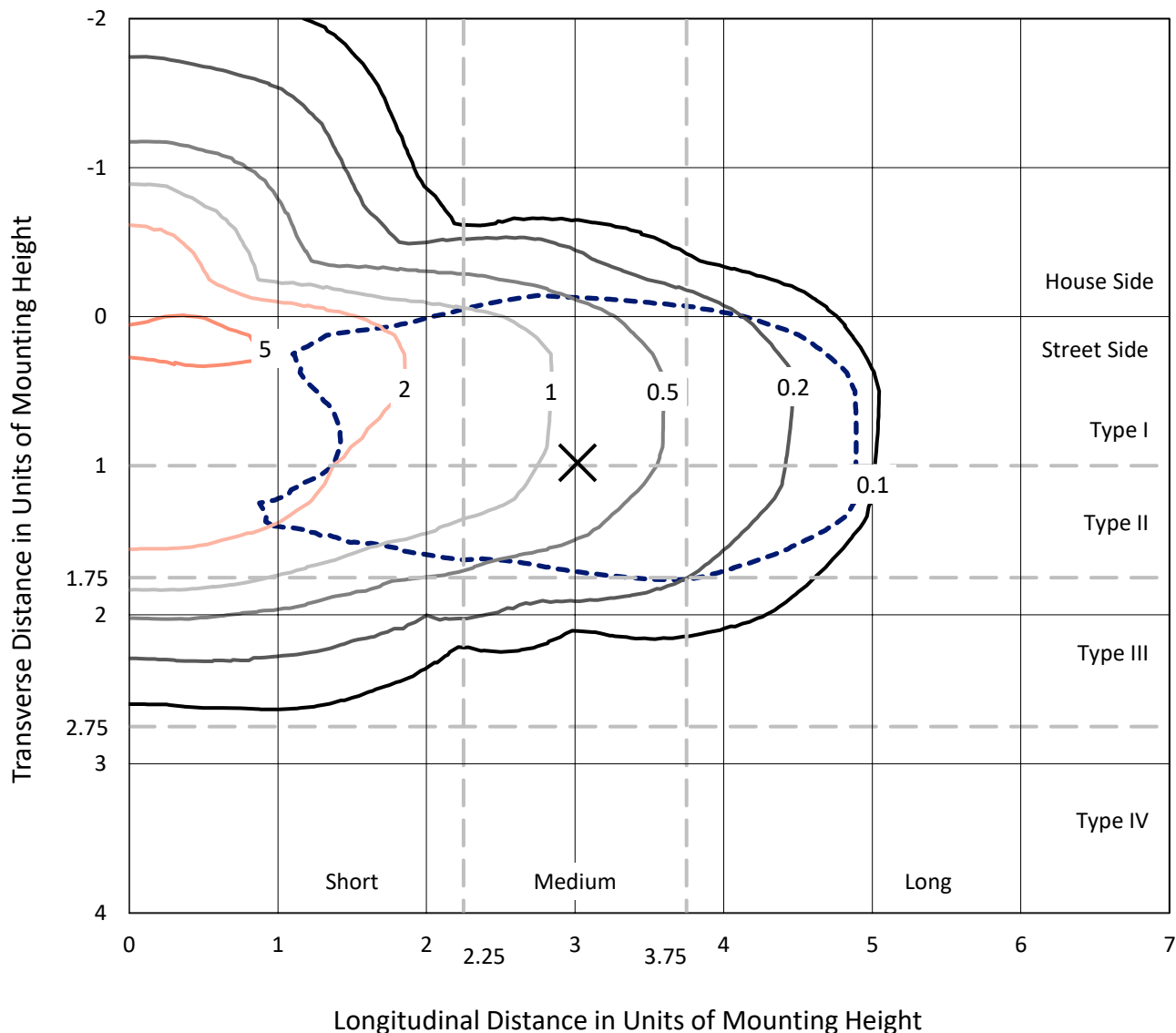
Lumens per Lamp: N/A
Luminaire Lumens: 8178 lumens
Efficiency: N/A
Efficacy: 101.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

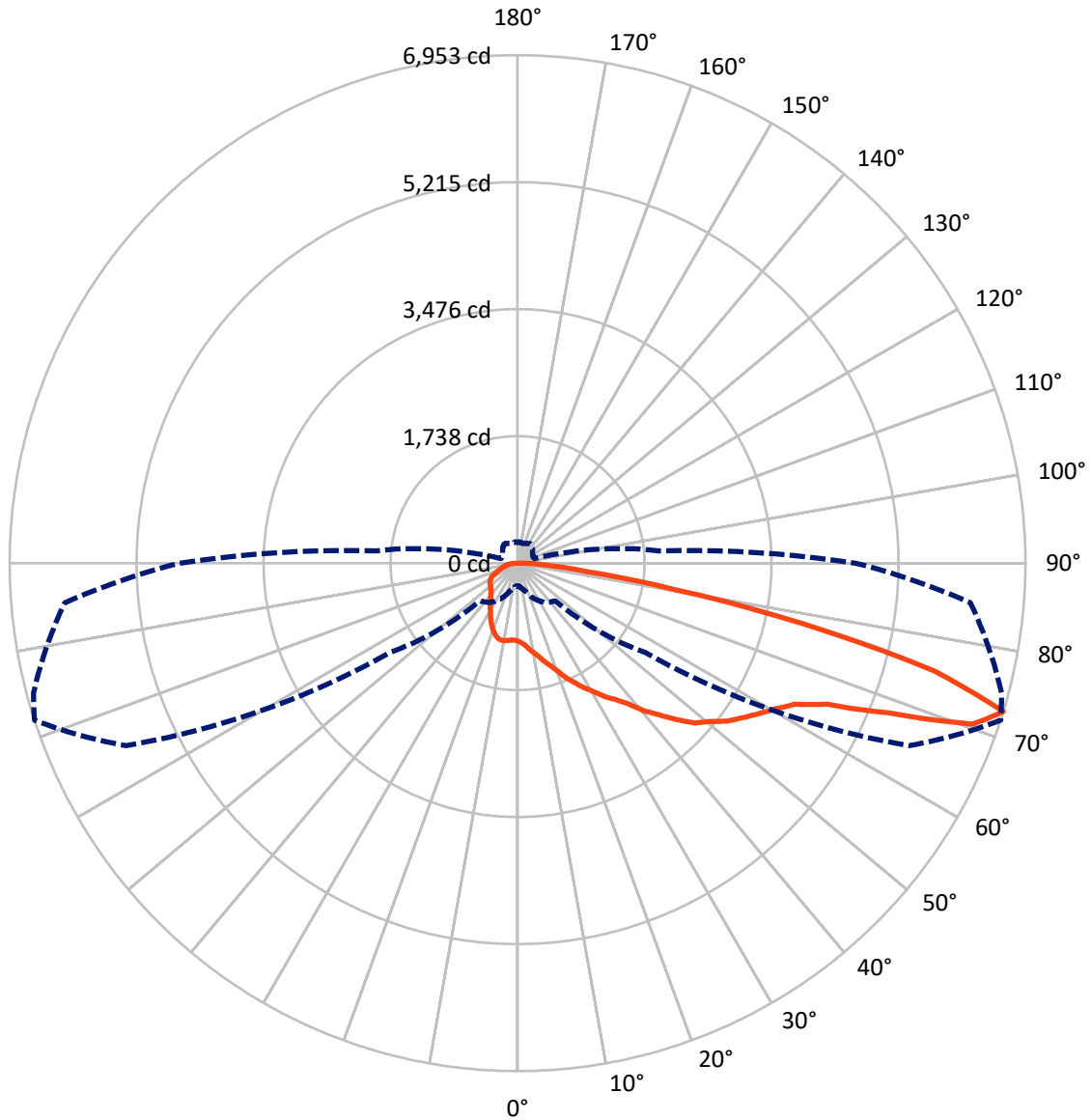
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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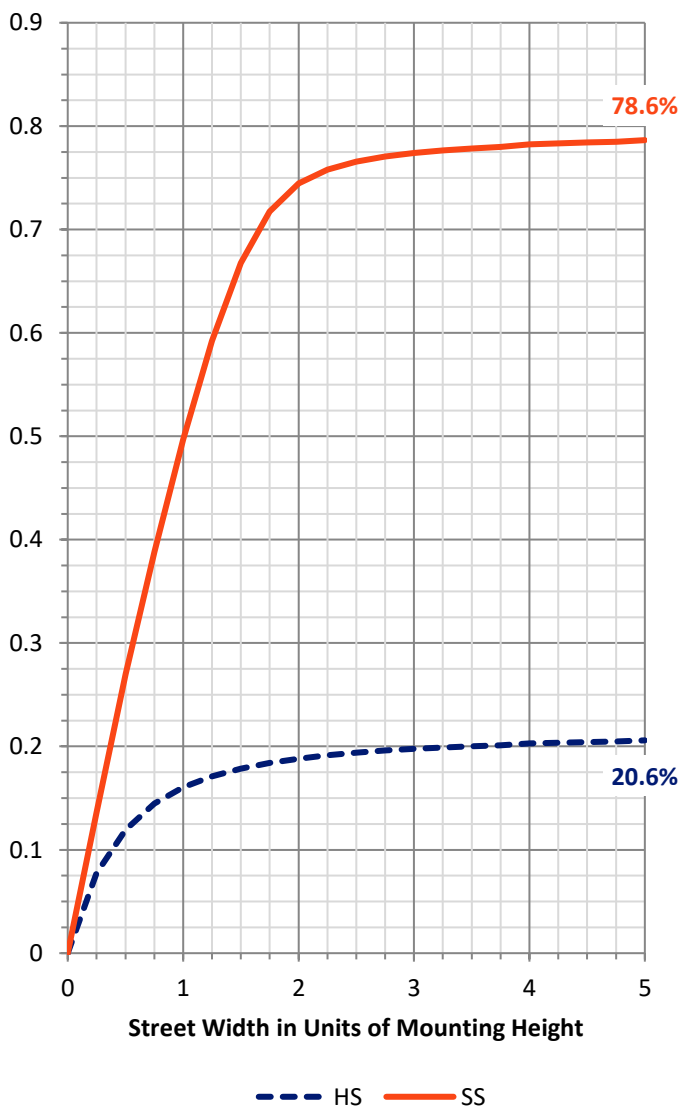
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1721.1	0.0	1721.1
	% Fixture	21.0	0.0	21.0
Street Side	Lumens	6456.9	0.0	6456.9
	% Fixture	79.0	0.0	79.0
Total	Lumens	8178.0	0.0	8178.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.6	1.3
10°-20°	328.2	4.0
20°-30°	567.9	6.9
30°-40°	838.8	10.3
40°-50°	1247.4	15.3
50°-60°	1710.1	20.9
60°-70°	1854.9	22.7
70°-80°	1307.8	16.0
80°-90°	217.3	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°	8178.0	100.0
0°-180°	8178.0	100.0



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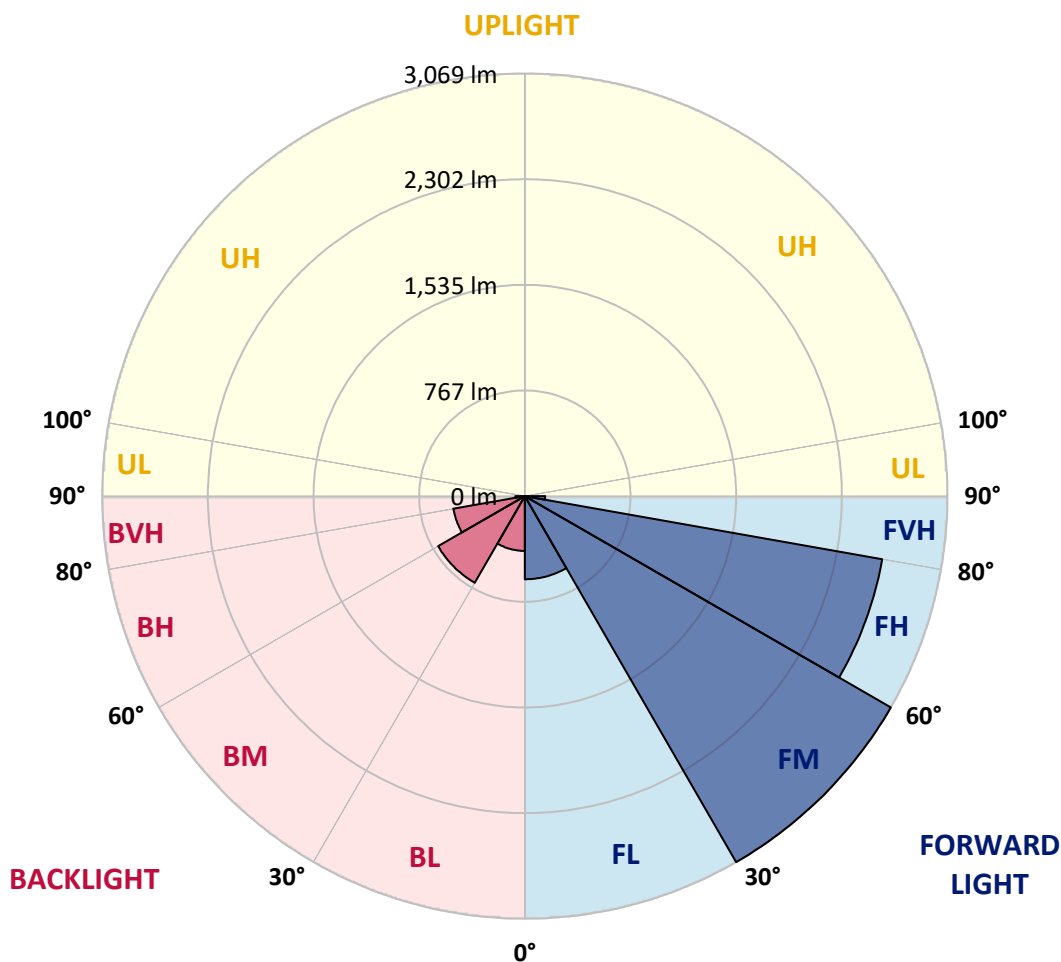
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	603.9	7.4			
FM (30°-60°)	3069.3	37.5			
FH (60°-80°)	2635.5	32.2			G2/5000
FVH (80°-90°)	148.1	1.8			G2/225
BL (0°-30°)	397.8	4.9	B1/500		
BM (30°-60°)	726.9	8.9	B1/1000		
BH (60°-80°)	527.2	6.4	B2/1000		G2/1000
BVH (80°-90°)	69.2	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°	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3
2.5°	1152.8	1152.8	1143.7	1140.7	1140.7	1116.6	1119.6	1104.5	1092.4	1092.4	1080.3
5°	1213.1	1207.1	1207.1	1207.1	1192.0	1182.9	1179.9	1152.8	1131.6	1134.7	1098.4
7.5°	1228.2	1231.2	1234.2	1249.3	1240.3	1246.3	1240.3	1210.1	1195.0	1179.9	1146.7
10°	1237.3	1243.3	1243.3	1264.4	1264.4	1279.5	1288.6	1276.5	1249.3	1234.2	1179.9
12.5°	1258.4	1249.3	1261.4	1276.5	1291.6	1318.7	1345.9	1333.8	1315.7	1297.6	1237.3
15°	1258.4	1261.4	1270.5	1294.6	1318.7	1345.9	1394.2	1412.3	1403.2	1370.0	1306.7
17.5°	1222.2	1213.1	1255.4	1300.6	1345.9	1379.1	1442.5	1484.7	1478.7	1466.6	1370.0
20°	1225.2	1234.2	1249.3	1288.6	1361.0	1421.3	1499.8	1569.2	1584.3	1578.3	1454.5
22.5°	1279.5	1282.5	1297.6	1315.7	1373.1	1451.5	1569.2	1680.9	1708.0	1692.9	1548.1
25°	1333.8	1358.0	1358.0	1370.0	1391.2	1472.6	1614.5	1771.4	1810.6	1813.6	1644.7
27.5°	1421.3	1427.4	1445.5	1451.5	1469.6	1517.9	1665.8	1837.8	1928.3	1916.2	1732.2
30°	1523.9	1527.0	1539.0	1533.0	1536.0	1596.4	1714.1	1913.2	2037.0	2040.0	1825.7
32.5°	1644.7	1668.8	1674.8	1635.6	1641.6	1656.7	1789.5	2003.8	2172.7	2151.6	1907.2
35°	1822.7	1831.7	1813.6	1795.5	1750.3	1741.2	1868.0	2094.3	2290.4	2314.6	2027.9
37.5°	2043.0	2067.1	2043.0	1946.4	1898.1	1861.9	1964.5	2193.9	2432.3	2513.8	2148.6
40°	2248.2	2245.2	2221.0	2133.5	2049.0	2021.9	2103.3	2332.7	2652.6	2731.0	2323.6
42.5°	2414.2	2405.1	2390.0	2323.6	2245.2	2199.9	2263.3	2477.5	2836.6	2987.5	2525.8
45°	2559.0	2546.9	2550.0	2474.5	2399.1	2423.2	2423.2	2643.5	3053.9	3241.0	2758.2
47.5°	2694.8	2700.8	2691.8	2634.5	2577.1	2640.5	2607.3	2833.6	3268.2	3476.4	2954.3
50°	2851.7	2863.8	2833.6	2797.4	2746.1	2809.5	2767.2	3011.7	3407.0	3690.7	3189.7
52.5°	2999.6	3011.7	3038.8	2993.6	2942.3	2993.6	2897.0	3177.6	3591.1	3898.9	3370.8
55°	3035.8	3029.8	3180.7	3228.9	3256.1	3102.2	3011.7	3319.5	3735.9	4031.7	3576.0
57.5°	2869.8	2884.9	3090.1	3228.9	3518.6	3385.9	3141.4	3485.5	3886.8	4206.7	3766.1
60°	2456.4	2465.5	2722.0	3050.9	3473.4	3651.4	3491.5	3699.7	4052.8	4354.6	3980.4
62.5°	1641.6	1711.0	2030.9	2546.9	3153.5	3723.9	4049.8	4061.8	4255.0	4541.6	4273.1
65°	866.1	899.3	1149.7	1566.2	2390.0	3473.4	4574.8	4780.0	4659.3	4885.7	4695.6
67.5°	567.3	579.4	715.2	950.6	1379.1	2534.9	4635.2	6026.4	5471.1	5540.5	5371.5
70°	422.5	428.5	528.1	703.1	854.0	1355.0	3799.3	6608.8	6605.8	6421.7	6174.2
72.5°	310.8	319.9	389.3	537.2	657.9	730.3	2136.5	5911.7	6952.8	6859.2	6222.5
75°	244.4	250.5	286.7	416.4	531.1	479.8	1083.4	4378.7	5896.6	6346.2	5694.4
77.5°	199.2	205.2	226.3	301.8	425.5	371.2	519.0	2824.6	3998.5	4568.8	4357.6
80°	166.0	166.0	181.1	214.3	328.9	280.6	307.8	1587.3	2154.6	2378.0	1976.6
82.5°	141.8	138.8	150.9	156.9	244.4	202.2	199.2	718.2	947.6	1004.9	742.4
85°	90.5	93.5	141.8	135.8	159.9	138.8	111.7	341.0	446.6	455.7	277.6
87.5°	36.2	36.2	60.4	75.4	90.5	84.5	54.3	153.9	196.2	196.2	78.5
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°	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3	1068.3
2.5°	1077.3	1065.3	1056.2	1050.2	1035.1	1020.0	1023.0	1020.0	1007.9	1001.9	1001.9
5°	1089.4	1077.3	1062.2	1038.1	1023.0	1004.9	1010.9	998.9	986.8	995.8	980.8
7.5°	1119.6	1098.4	1077.3	1041.1	1017.0	989.8	977.7	971.7	962.6	956.6	956.6
10°	1161.8	1131.6	1092.4	1038.1	998.9	956.6	950.6	938.5	929.5	929.5	926.4
12.5°	1204.1	1170.9	1104.5	1017.0	950.6	920.4	917.4	920.4	926.4	929.5	932.5
15°	1258.4	1204.1	1101.5	977.7	911.3	899.3	914.4	926.4	938.5	950.6	947.6
17.5°	1309.7	1246.3	1074.3	929.5	878.2	881.2	908.3	932.5	956.6	968.7	971.7
20°	1379.1	1285.5	1035.1	872.1	845.0	872.1	908.3	938.5	965.7	980.8	983.8
22.5°	1457.6	1330.8	983.8	820.8	817.8	845.0	881.2	926.4	956.6	983.8	980.8
25°	1527.0	1361.0	917.4	778.6	784.6	802.7	845.0	893.2	923.4	953.6	944.5
27.5°	1572.2	1367.0	848.0	748.4	748.4	766.5	805.7	835.9	863.1	887.2	890.2
30°	1623.5	1355.0	769.5	709.2	709.2	733.3	748.4	766.5	781.6	787.6	793.7
32.5°	1683.9	1327.8	721.2	679.0	679.0	697.1	706.1	700.1	697.1	682.0	691.1
35°	1741.2	1288.6	666.9	639.8	651.8	660.9	657.9	639.8	621.6	594.5	585.4
37.5°	1810.6	1249.3	618.6	597.5	618.6	621.6	621.6	600.5	576.4	543.2	543.2
40°	1916.2	1219.2	579.4	570.3	591.5	588.5	573.4	558.3	567.3	549.2	549.2
42.5°	2027.9	1207.1	543.2	546.2	555.3	558.3	543.2	525.1	561.3	540.2	543.2
45°	2166.7	1216.1	519.0	516.0	537.2	534.1	525.1	510.0	522.1	467.7	452.7
47.5°	2296.5	1234.2	507.0	494.9	519.0	525.1	513.0	479.8	461.7	428.5	422.5
50°	2414.2	1273.5	494.9	470.8	494.9	507.0	485.9	449.6	428.5	407.4	407.4
52.5°	2525.8	1330.8	488.9	443.6	464.7	479.8	467.7	431.5	407.4	398.3	389.3
55°	2640.5	1382.1	479.8	425.5	431.5	461.7	458.7	410.4	386.3	386.3	383.2
57.5°	2803.5	1451.5	467.7	395.3	407.4	440.6	440.6	401.4	374.2	377.2	380.2
60°	2969.4	1533.0	455.7	365.1	374.2	419.5	425.5	389.3	365.1	368.2	365.1
62.5°	3235.0	1683.9	431.5	328.9	347.0	392.3	407.4	374.2	353.1	359.1	359.1
65°	3636.3	1943.4	380.2	298.8	319.9	368.2	389.3	359.1	335.0	353.1	347.0
67.5°	4282.1	2299.5	319.9	274.6	301.8	344.0	368.2	341.0	319.9	347.0	338.0
70°	4861.5	2474.5	274.6	253.5	274.6	316.9	344.0	322.9	301.8	328.9	316.9
72.5°	4626.1	1940.4	238.4	229.3	250.5	286.7	319.9	298.8	277.6	292.7	280.6
75°	3992.4	1545.1	208.2	205.2	223.3	259.5	292.7	277.6	256.5	262.5	256.5
77.5°	3026.8	1276.5	178.0	175.0	190.1	232.4	262.5	250.5	229.3	226.3	226.3
80°	1351.9	627.7	147.9	147.9	156.9	199.2	223.3	217.3	196.2	193.1	190.1
82.5°	443.6	238.4	120.7	114.7	126.7	166.0	199.2	193.1	172.0	166.0	159.9
85°	178.0	114.7	87.5	87.5	99.6	138.8	178.0	166.0	138.8	123.7	123.7
87.5°	60.4	48.3	45.3	45.3	63.4	93.5	132.8	111.7	99.6	87.5	90.5
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)